



SCHEDULE- A

Tender Notice No:

HY/FCD/OT- 06/2009-10 , Dt:23.07.09

Item no: 02

PRICE BID

**Name of work :- Civil works for Modification- Providing Distribution pipe lines for using existing Effluent Treatment Plant Treated water for Horticulture works in Factory area**

S.No	Description of work	Ref: CPWD- 2007	Qty	Unit	Rate	Amount
1	Earth work in excavation in all soils 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.	2.8 P 64	5077.00	Cu.m	103.40	524961.80
2	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 .	2.25 P 67	3862.00	Cu.M	45.70	176493.40
3	Cutting road and making good the same including supply of extra quantities of materials i.e aggregate, morrum screening, red bajri and labour required for bituminous protion.	16.13.1 P 241	375.00	Cu.m	1081.80	405675.00
4a	Construction of masonry chamber 90X90X100 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement :4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1cement :2 coarse sand : 4 graded stone aggregate 20mm nominal size ) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as directed by Engineer-in-charge	18.34.1 P 297	50.00	Each	6147.95	307397.50
b	Construction of masonry chamber 60X60X75 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement :4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1cement :2 coarse sand : 4 graded stone aggregate 20mm nominal size ) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as directed by Engineer-in-charge	18.33.1 P 297	150.00	Each	3595.30	539295.00
5	Providing and laying in position cement concrete of specified garde excluding the cost of centering and shuttering including consolidation by vibrations for all works up to plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size ).	4.1.3 P 79	170.00	Cu.m	3257.45	553766.50

S.No	Description of work	Ref: CPWD- 2007	Qty	Unit	Rate	Amount
6	Coursed rubble masonry in second sort with hard stone in foundation & plinth with cement mortar 1:6 (1 cement : 6 coarse sand)	7.7.1 P 109	60.00	Cu.M	1913.10	114786.00
7	<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.	6.4.2 P 99	50.00	Cu.M	2357.40	117870.00
8	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.	13.3.2 P 201	256.00	Sq.m	95.10	24345.60
9	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 ) .	13.7.1 P 201	40.00	Sq.m	107.80	4312.00
10	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structure as directed by engineer-in-charge and consisting of:i) 1st layer of 22 mm to 25 mm thick approved and specified rough stone slab over a 25 mm thick base of cement mortar 1:3 (1 cement :3 coarse asnd) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the levelling course )leveling course to be paid separately). joints sealed and grouted with cement slurry mixed with water proofing compound. ii) 2nd layer of 25mm thick cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportions .iii) Finishing top with stone aggregate of 10mm to 12 mm nominal size spreading @ 8 Cudm/ Sq.m throughly embedded in the 2nd layer using <del>Rough Kota Stone</del>	22.1.1 P 345	60.00	Sq.M	540.30	32418.00
11	Flush Pointing on brick work or brick flooring with cement mortar 1:3 (1cement: 3 fine sand) including curing, cost of material etc. complete.	13.31.1 P 203	180.00	Sq.m	45.40	8172.00
12	Providing and laying in position specified grade as given below, of <b>Reinforced cement concrete</b> excluding the cost of centering,shuttering 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 ) .	5.1.3 P 88	6.00	cu.m	3359.60	20157.60
13	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size)	5.3 P 88	17.00	Cu.m	3673.85	62455.45
14	<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 deformed bars.	5.22.3 p 92	1.30	M.T	42700.00	55510.00
15	<b>Centering</b> and shuttering including strutting, propping etc; and removal of form work, for columns, pillars,peirs,abutments,machine foundations, posts and struts.	5.9.3 P 89	95.00	Sq.M	187.35	17798.25

S.No	Description of work	Ref: CPWD- 2007	Qty	Unit	Rate	Amount
16	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.	13.3.1 +(1213)	156.00	Sq.m	115.06	17949.36
17a	Finishing walls with Premium <b>acrylic smooth exterior paint with silicone additives of required shade</b> for new work with two or more coats applied @ 1.43 ltr/ 10 Sq.m over and including base coat of water proofing cement paint applied @ 2.20 Kg/10 Sq.m - for Over head Tank of staging at 45.00 M .Paint and water proof cement will be issued on FREE of cost by BHEL.	13.47.1 P 205 & RA	4000.00	Sq.m	70.50	282000.00
b	---do--for under ground reservoir.Paint and water proof cement will be issued on FREE of cost by BHEL.	13.47.1 P 205 & RA	2400.00	Sq.m	38.00	91200.00
18	painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade with two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	CPWD - 13.62 P 207	1200.00	Sq.m	51.30	61560.00
19a	Supply & fixing of GM peet valves, heavy quality, ISI marked Leader/Zoloto make of nominal bore for 65 mm dia.	18.17.5 P 293	150.00	One Each	831.75	124762.50
b	.. Do .. 80 mm dia	18.17.6 P 293	50.00	One Each	1369.25	68462.50
20a	Supply and Fixing C.I. sluice values with operating wheel as per IS with flanged joints rubber insertion with bolts , nuts and washers.---for ---dia 150 mm dia pipe. (as per IS 14846 / 2000 ) .	P 100 + P 42 (APSSR2 008)	25.00	Each	12317.40	307935.00
b	-----do----for ---125 mm dia pipe.	P 100 + P 42 (APSSR2 008)	50.00	Each	10266.12	513306.00
21	Providing and laying Double Flanged (screwed / Welded ) Centrifugally (Spun) Cast Iron, Class B (IS:1536). For 100 mm dia pipe.	18.71.1 p 304	15.00	RM	1151.15	17267.25
22	Providing and laying flanged C.I. standard specials such as tees, bends,collars,tappers,caps etc; suitable for flanged jointing as per IS:1538 upto 300 mm dia.	18.26.1 P 295	2.50	MT	51234.50	128086.25
23	Applying two or more coats of oil bound distemper of given shade including scraping the old surfaces, cost of all labour, material and other incidentals.	CPWD- 13.41.1 P 204	160.00	One Sq.m	41.55	6648.00

S.No	Description of work	Ref: CPWD- 2007	Qty	Unit	Rate	Amount
24a	Fabrication of structural steel work including all materials going into the process of fabrication and forming and integral form 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 rate includes cost of electrodes, gasse etc., The raw structural steel sections will be issued FREE of cost at BHEL stores.	CPWD No: 10.4- Strl steel cost (RA)	7.00	MT	12579.00	88053.00
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.	CPWD No: 10.4- Strl steel cost	7.00	MT	Rate included in the above item	
25	<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.	1.1.2 P 54	50.00	Cu.M	56.41	2820.50
26	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.	pump shop Sr.No. 49	1750.00	Sq.m	196.00	343000.00
27	Supply and fixing of toilet doors along with teak wood door frame of required size consist teak scantlings of 100 mm x 75 mm and flush door shutter and laminating both door frame and shutter with premium quality teak vineer in required colour and design and malamine polish.Flush door shutter shall be chemically treated and water/insect/borer proof and 30 mm thick. This includes providing brass hinges, brass aldrops, brass tower bolts, brass handles and brass door stoppers.	Modernisat ion of Fy.Civil	4.00	Sq.m	3000	12000.00
28	Supply & Fixing steel windows/ventilators of approved make including supplying and fixing 4 mm thick plain glass with best quality putt, MS handles and peg stays including painting two coats of synthetic enamel paint over one coat of red oxide paint including S&F weldmesh 50x50 mm (8 g x8g) etc. complete.The window section and fabrication shall confirm to IS 1038.	51 block	7.50	Sq.M	1900.00	14250.00

S.No	Description of work	Ref: CPWD- 2007	Qty	Unit	Rate	Amount
29	Supplying and fixing of Tracdek Hi-rib single skin colour 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., complete as directed. (Including cost of galvalume sheets). - for roofing/ Cladding - Coloured	51 exp	90.00	sq.m	720.00	64800.00
30	Supply & Laying of HDPE pipes (PE100) of 6 Kg/Sqcm ( as per IS 4984 - 1995 ).	RA with APSSR P 42 & P 74				
	140mm dia		2000.00	Rm	590.20	1180400.00
	110mm dia		600.00	Rm	376.09	225654.00
	90mm dia		2000.00	Rm	257.45	514904.00
	75mm dia		2000.00	Rm	188.21	376428.00
	63mm dia		500.00	Rm	139.39	69693.00
31	Supply & installation of 20 HP pump with motor including necessary electrification etc. complete.(reputed make)		2.00	Each	137934.00	275868.00
32	providing and fixing enclosed type water meter (bulk type) conforming to IS: 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. ( The tail pieces if required will be paid separately) : - 80 mm dia Nominal bore.	18.60.1 P 302	30.00	Each	2448.40	73452.00
					<b>Total: Rs</b>	7825913.46

**Rupees : Seventy eight lakhs twenty five Thousand nine hundred and thirteen 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

Tender %	In figure	In words
Excess		
Less		
Estimated Rate only		

**Name of the Contractor :**

**Signature of the Contractor**

**Accounts Representative**

**Opening officer**