



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/C/11/38

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN FACTORY

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
2.31	01	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	300.000	sqm	2.64	792.00
2.32	02	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	200.000	sqm	1.36	272.00
2.33	03	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material and disposal of unserviceable material.			0.00	.00
2.33.1	03A	Beyond 30 cm girth upto and including 60 cm girth	7.000	each	81.70	571.90
2.33.2	03B	Beyond 60 cm girth upto and including 120 cm girth	3.000	each	359.80	1079.40
2.1	04	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed :			0.00	.00
2.1.1	04A	All kinds of soil	300.000	sqm	20.74	6222.00
2.6	05	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, disposed earth to be levelled and neatly dressed.			0.00	.00
2.6.1	05A	All kinds of soil	415.000	cum	101.85	42267.75
2.7	06	Earth work in excavation by mechanical means (Hydraulic			0.00	.00

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		excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.						
2.7.1	06A	Ordinary rock	12.000	cum	152.60		1831.20	
2.7.2	06B	Hard rock (requiring blasting)	10.000	cum	252.20		2522.00	
2.26	07	Extra for every additional lift of 1.5 m or part thereof in.			0.00		.00	
2.26.1	07A	All kinds of soil.	50.000	cum	18.90		945.00	
2.26.2	07B	Ordinary or hard rock.	10.000	cum	33.85		338.50	
2.8	08	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					.00	
2.8.1	08A	All kinds of soil.	48.000	cum	103.40		4963.20	
2.25	09	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	175.000	cum	45.70		7997.50	
2.27	10	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	20.000	cum	301.50		6030.00	
1.1.2/4	11A	Conveyance of earth, sand, gravel etc by contractor's own lorry for loading, leading, unloading, stacking or spreading as per the instruction of Engineer-In-Charge from 0.0KM to 1.0KM	100.000	CUM	49.42		4942.00	

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1.1.2/5	11B	Conveyance of earth, sand, gravel etc by contractor's own lorry for loading, leading, unloading, stacking or spreading as per the instruction of Engineer-In-Charge from 1.0KM to 2.0KM	315.000	CUM	56.41		17769.15	
4.1	12	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :			0.00		.00	
4.1.4	12A	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size).	12.000	cum	1538.10		18457.20	
4.1.7	12B	1:3:6 (1 Cement : 3 fine sand : 6 graded stone aggregate 40 mm nominal size).	5.000	cum	1421.70		7108.50	
4.1.9	12C	1:4:8 (1 cement : 4 fine sand : 8 graded stone aggregate 40 mm nominal size)	37.000	cum	1416.40		52406.80	
5.9	13	Centering and shuttering including strutting, propping etc. and removal of form for :			0.00		.00	
5.9.1	13A	Foundations, footings, bases of columns, etc. for mass concrete.	97.000	sqm	119.25		11567.25	
5.9.2	13B	Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	960.000	sqm	180.40		173184.00	
5.9.3	13C	Suspended floors, roofs, landings, balconies and access platform.	190.000	sqm	187.35		35596.50	
5.9.6	13D	Columns, Pillars, Piers, Abutments, Posts and Struts.	7.000	sqm	238.40		1668.80	
5.9.7	13E	Stairs, (excluding landings) except spiral-staircases.	8.000	sqm	204.00		1632.00	
AGT02/10-11	14	Providing pockets or holes in foundations for holding down bolts using GI pipes or 12mm thick plywood including fixing the pipes or/and plywood of required sizes in position to correct alignment level and removal of the form work.Rate all inclusive.	10.000	SQM	718.75		7187.50	

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5.22	15	STEEL REINFORCEMENT Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			0.00		.00	
5.22.3	15A	Cold twisted bars	20500.000	kilo	6.19		126895.00	
5.33	16	DESIGN MIX CONCRETE Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410kg. of cement per cum of concrete. All work up to floor V level.	34.000	cum	2025.65		68872.10	
5.37	17	Providing and laying in position ready mixed concrete manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per	180.000	cum	4356.50		784170.00	

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					RS	P	RS	P
		IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. M-25 grade Reinforced cement concrete by using 410kg of cement per cum of concrete. All works up to floor V level.						
5.34	18	Add or deduct for providing richer or leaner mixes respectively at all floor levels.			0.00			.00
5.34.2	18A	Providing M-35 grade concrete by using 428kg of cement per cum of concrete instead of M-25 grade B.M.C./ R.M.C...	180.000	cum	98.20			17676.00
5.39	19	Extra for carriage of R.M.C. beyond the initial lead of 10km.	3780.000	CUM/KM	20.90			79002.00
13.1	20	CEMENT PLASTER (IN FINE SAND) 12 mm cement plaster of mix :			0.00			.00
13.1.1	20A	1:4 (1 cement: 4 fine sand)	1030.000	sqm	49.24			50720.03
13.1.2	20B	1:6 (1 cement: 6 fine sand)	125.000	sqm	49.02			6127.50
13.2	21	15 mm cement plaster on the rough side of single or half brick wall of mix :			0.00			.00
13.2.2	21A	1:6 (1 cement: 6 fine sand)	140.000	sqm	56.30			7882.00
13.16	22	6 mm cement plaster of mix :			0.00			.00
13.16.1	22A	1:3 (1 cement: 3 fine sand)	33.000	sqm	43.16			1424.28
13.21	23	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers. {UNIT - Per bag of 50 kg cement used in the Mix}	105.000	bag	28.85			3029.25
10.2	24	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:	1250.000	kg	9.41			11762.50

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					RS	P	RS	P
10.26	25	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing and staircase railing including applying a priming coat of approved steel primer.			0.00			.00
10.26.1	25A	M.S. tube.	50.000	kg	62.35			3117.50
13.61	26	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :			0.00			.00
13.61.1	26A	Two or more coats on new work	40.000	sqm	35.35			1414.00
6.1	27	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:			0.00			.00
6.1.2	27A	Cement mortar 1:6 (1 cement : 6 coarse sand)	5.000	cum	1798.31			8991.56
6.4	28	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in :			0.00			.00
6.4.2	28A	Cement mortar 1:6 (1 cement : 6 coarse sand)	33.000	cum	2106.81			69524.81
11.21	29	Providing and fixing 10mm thick acid and/or alkali resistant tiles of approved make and colour using acid and or alkali resisting mortar bedding and joints filled with acid and/or alkali resisting cement as per IS : 4457 complete as per the direction of Engineer-in- Charge.			0.00			.00
11.21.1	29A	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand).			0.00			.00
11.21.1.1	29A1	Acid and alkali resistant tile.	8.000	sqm	873.00			6984.00
11.21.2.1	29B	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand). Acid and alkali resistant tile.	57.000	sqm	909.15			51821.55
13.52	30	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate			0.00			.00

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					RS	P	RS	P
		priming coat, preparation of surface, etc. complete.						
13.52.2	30A	On concrete work	500.000	sqm	77.75		38875.00	
4.17	31	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed by dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	80.000	sqm	165.73		13258.40	
4.11	32	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	15.000	sqm	95.25		1428.75	
7.1	33	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with :			0.00		.00	
7.1.1	33A	Cement mortar 1:6 (1 cement : 6 coarse sand)	35.000	cum	1411.96		49418.60	
11.4	34	52 mm thick cement concrete flooring with concrete hardener topping under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume .hardening compound is mixed @ 2 litre per 50kg of cement or as per manufacturers specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	35.000	sqm	167.01		5845.35	
5.1	35	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of			0.00		.00	

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					RS	P	RS	P
		centering, shuttering, finishing and reinforcement - All work up to plinth level :						
5.1.2	35A	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	8.000	cum	1662.00		13296.00	
DATA	36	Providing and laying weathering course on top of roof slab with brick jelly of size 20mm and pure lime (no sand) in the proportion of 32:12.5 to an average thickness of 75mm concrete well beaten with wooden battens so as to secure a minimum slope of 1 in 48 and top finished with two courses of ressed tiles of size 25 cm x 25cm x 1.2 cm set in cement mortar 1:3 mixed with crude oil at 10% by weight of cement and pointing with the same oiled mortar etc. complete as per standard specifications.Cement only will be issued free of cost at BHEL stores.	50.000	SQM	583.50		29175.00	
12.45	37	Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I.			0.00		.00	

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					RS	P	RS	P
		channel with connecting clips made out of 2.64mm diax230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting with :						
12.45.1	37A	12.5 mm thick tapered edge gypsum board conforming to IS: 2095- Part I.	33.000	sqm	502.10		16569.30	
21.1	38	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required			0.00		.00	

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					RS	P	RS	P
		including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) :						
21.1.1.1	38A	For fixed portion			0.00			.00
21.1.1.2	38A1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	125.000	kg	306.30			38287.50
21.1.2	38B	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).			0.00			.00
21.1.2.2	38B1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	75.000	kg	326.60			24495.00
21.3	39	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-incharge. (Cost of aluminium snap beading shall be paid in basic item):			0.00			.00
21.3.1	39A	With float glass panes of 4.0 mm thickness	15.000	sqm	554.95			8324.25
21.3.2	39B	With float glass panes of 5.50 mm thickness	3.000	sqm	673.55			2020.65
21.2	40	Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade 1 Type 11, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of			0.00			.00

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					RS	P	RS	P
		engineer-in-charge.						
21.2.2	40A	Pre-laminated particle board with decorative lamination on both sides.	2.000	sqm	812.60		1625.20	
9.103	41	Providing and fixing bright finished brass 100 mm mortice latch and lock ISI marked with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles with necessary screws etc. complete (Best make of approved quality).	2.000	each	435.90		871.80	
21.4	42	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.			0.00		.00	
21.4.1	42A	With stainless steel cover plate	2.000	each	1733.50		3467.00	
9.97	43	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade with necessary screws etc. complete :			0.00		.00	
9.97.2	43A	250x10 mm	4.000	each	62.20		248.80	
12.41	44	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 10 mm gap for thermal expansion.(i) Single socketed pipes.			0.00		.00	
12.41.2	44A	110 mm diameter	12.000	metre	163.40		1960.80	
12.42	45	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to			0.00		.00	

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					RS	P	RS	P
		IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.						
12.42.5	45A	Bend 87.5°			0.00			.00
12.42.5.2	45A1	110 mm bend	3.000	each	134.20			402.60
12.42.6	45B	Shoe (Plain)			0.00			.00
12.42.6.2	45B1	110 mm Shoe	3.000	each	263.10			789.30
12.43	46	Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.			0.00			.00
12.43.2	46A	110 mm	12.000	each	96.90			1162.80
16.68	47	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with coarse sand etc. all complete as per the direction of Engineer-in-charge.	100.000	sqm	346.35			34635.00
13.37	48	White washing with lime to give an even shade:			0.00			.00
13.37.1	48A	New work (three or more coats)	35.000	sqm	6.75			236.25
13.46	49	Finishing walls with Acrylic Smooth exterior paint of required shade :			0.00			.00
13.46.1	49A	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including base coat of water	740.000	sqm	50.40			37296.00

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					RS	P	RS	P
		proofing cement paint applied @ 2.20 kg/ 10 sqm).						
13.41	50	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade			0.00			.00
13.41.1	50A	New work (two or more coats) over and including priming coat with cement primer.	125.000	sqm	41.55			5193.75
CF26/08-09	51	Grouting the holding down bolts and underneath the base plate etc. after alignment with non shrink free flow grout mix of SHRINKOMP-30(ACC's make) or equalant as per Standarded specification and instruction of Engineer incharge. Rate to include charges for cleaning the sleeves or pockets and other incidental charges, tools and plants etc. complete	0.300	CUM	40422.55			12126.77
4.15	52	Extra for laying concrete in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete. {cum per meter depth} Note for item No. 4.15 :- The quantity will be calculated by multiplying the depth measured from the sub-soil water level up to centre of gravity of concrete under sub-soil water level with quantity of concrete in cum executed under sub- soil water. The depth of centre of gravity shall be reckoned correct to 0.1m, 0.05m or more shall be taken as 0.1m and less than 0.05m ignored.	60.000	CUM/ M	DEP	180.75		

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/C/11/38

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN FACTORY

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
					10845.00			
NOTE FOR 4.1	52N	Note for item No.4.15:- The quantity will be calculated by multiplying the depth measured from the sub-soil water level upto centre of gravity of concrete under sub-soil water level with quantity of concrete in cum executed under sub-soil water. The depth of centre of gravity shall be reckoned correct to 0.1m; 0.05m or more shall be taken as 0.1m and less than 0.05m ignored.						.00
22.4	53	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete :			0.00			.00
22.4.1	53A	Serrated with central bulb (225mm wide, 8-11mm thick).	300.000	metre	386.75			116025.00

# Escalation is not applicable for this Item Sl. No.

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# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/C/11/38

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN FACTORY

TOTAL ESTIMATED VALUE BEFORE ESCALATION		2174646.10
**ESCALATION @ 36.00 %		782872.60
TOTAL ESTIMATED VALUE (A)		2957518.70
CONTRACTOR TENDER PERCENTAGE @	ABOVE <input type="checkbox"/> 1	
	BELOW <input type="checkbox"/> 2	
	AT PAR <input type="checkbox"/> 3	_____ %
(Percentage in words		(B) <input type="text"/> 4
		)
SUB TOTAL	(B)	(C) <input type="text"/> 5
	(B)	(C) <input type="text"/> 6
if at par (A)	(C)	(C) <input type="text"/> 7
*SERVICE TAX @ _____ %	(D)	(D) <input type="text"/> 8
SERVICE HEAD :		
TOTAL VALUE OF WORK [ (C) + (D) ]	(E)	(E) <input type="text"/> 9
(Rupees in words		)

See Last page  
(separate excel  
sheet) for quoting

- NOTE :**
- 1) Instead of subtraction (for tender % quoted below), Total value of work is calculated by addition erroneously, L1 will be decided based on amount arrived by subtraction only. In the same way, instead of addition (for tender % quoted above), Total value of work is calculated by subtraction erroneously, L1 will be decided based on amount arrived by addition only. Any calculation error will be corrected at actuals.
  - 2) Tick whichever is applicable. In case of omission in Ticking, figures indicated in the amount column will be considered.
  - 3) Boxes 1,2,3 any one box is to be ticked as per quote. Boxes 5,6,7 any one box is to be filled in with appropriate figures. Box 9 value is equal to Box 5 or 6 or 7 plus box 8.
  - \*4) Service Tax at applicable percentage shall be quoted by tenderers. In case Service Tax at composite rate quoted, it will be applicable on BHEL free issue of materials also. In case Service Tax % or Service tax amount is not mentioned, it is presumed that service tax at normal rate is included in the quoted rate.
  - 5) If any discrepancy between figures & words, L1 will be decided based on words.
  - 6) Free Issue of Material by BHEL is Rs. **1018853.49 /-**
  - \*\*7) Escalation not included for item sl no. marked with # symbol.

CONTRACTOR/ TENDERER

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# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/C/11/38

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN FACTORY

### SPECIAL CONDITION

- 1 The tenderer shall quote a percentage above or below or at par, the rates shown in the Bill of Quantities based on CPWD DSR 2007. The percentage quoted shall be clearly written both in words and figures. The contractor should accustom with CPWD DSR & Specifications before quoting.
- 2 The quoted percentage will apply to the individual items uniformly.
- 3 The above rates does not include PF & ESI remittance .The tenderer shall quote inclusive of PF & ESI contribution to their workers.
- 4 Items of work other than those mentioned in Bill of Quantities will have to be carried out at the rates to be fixed by this organisation .The same offered percentage will be applicable with reference to CPWD DSR 2007.
- 5 Safety precautions should be taken while doing the work. You will have to follow all safety requirements to carry out the work inside the factory premises.
- 6 **CONTRACT CONDITIONS ON TAXES & DUTIES**
- 7 a. The Tenderer shall have been Registered under Excise, Sales Tax, VAT, Service Tax regulations if applicable and provide a copy of such registration to BHEL as part of the tender document. In case of fresh registration/amendment thereon, the same shall be carried out before start of the work. PAN no shall be submitted as part the tender document. (copy to be enclosed)
- 8 b. Service Tax shall be paid by the service provider namely the Tenderer.
- 9 c. Required Tax Invoice as per the existing provisions to be issued in required parts duly signed by the Competent/Authorized Official of the Contractor to BHEL.
- 10 d. If due to deficiency in the document submitted, BHEL could not avail CENVAT, VAT Credit, the credit amount will be recovered from the amount due to the Tenderer .
- 11 e. If payment of statutory dues are not made in accordance with the applicable provisions of the relevant Act within the time specified and Penalty, Interest etc paid/payable by the Contractor, the same shall not be reimbursed by BHEL and the entire implication is only to be born by the Contractor. The Tenderer shall clearly indicate the rate of applicable taxes and duties for the work to be executed.
- 12 f. The Tenderer shall indicate all exemptions on account of thrushold limits or special notification under any stature. Any modification theron shall also be intimated immediately on changes.
- 13 g. The quote submitted shall include all taxes and duties of whatsoever in nature but exclusive of Service Tax which shall be quoted separately if applicable. The existing rate shall be quoted clearly. If reduced rates are applicable on account of material, labour if any the same shall be indicated clearly. After tender opening addition of any tax & duty is not admissible.
- 14 h. f any composition scheme is to be availed by the Tenderer, the all relevant terms and conditions shall be indicated clearly in the offer. The required compliance under relevant statue shall be carried out.
- 15 i. Any statutory variation will be to the account of BHEL. But if the variation is effective during the delayed/extended period of execution for reasons attributable to the vendor, the same shall be borne by the vendor only.
- 16 J1. Whether Servicible Turnover has crossed the Service Tax Threshold Limit as per Service Tax Rules for the tenderer. YES NO Remarks
- 17 J2.Registered with Service Tax authorities Registered with Service Tax authorities YES NO
- 18 J3.If yes copy of Service Tax Regn. Is enclosed YES NO
- 19 J4.Service Tax Registration No.
- 20 J5.Under which Service Head(s):
- 21 J6.Service Tax @ % is applicable as extra for this tender.
- 22 J7.Whether Input credit for the Materials is availed by the tenderer. YES NO
- 23 J8.Whether Input credit for the service portion is availed by the tenderer. YES NO

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



## BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

### PRICE BID

ESTIMATE REF NO : CF/C/11/38

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN FACTORY

- 24 J9.The Toal Value of Work (A+B+C) quoted is in the Tender is Inclusive of Service Tax . (Must be quoted both in figures and words)
- 25 J10.Tenderer has their own PF registration YES NO
- 26 J11.Tenderer has their own ESI registration YES NO
- 27 J12.PAN No. of the Tenderer
- 28 a) Power and water for all civil & road construction works will be provided by BHEL from the nearest tapping point at the recovery rates specified below. The contractor should make necessary arrangement for tapping the same at his own cost.
- b) The Contractor should quote the tender considering the above. The recovery rates towards the cost for these facilities will be @ 1% for water charges & 0.5% for Power charges will be effected from the bills on the executed value as certified by the Engineer-in-charge based on the usage of Power & water.
- c) In case the above facilities are not provided by BHEL, the tenderer has to arrange these facilities at his own cost and the recovery rates of 1% for water charges & 0.5% for Power charges will not be effected on the executed value as certified by the Engineer-in-charge."
- 29 All materials shall confirm to the latest IS/IRC specifications
- 30 Once the work is completed the contractor should remove all the unwanted materials from the site time to time and it should be disposed off as per the instructions of Engineer-in-charge without any further delay.
- 31 All works shall be carried out as per standard specifications and instructions of Engineer-in-charge.
- 32 All materials, colour, shade,brand, etc. shall be got approved from the Engineer-in-charge before the start of the work and shall confirm to the latest IS/IRC specifications.
- 33 The current minimum wages per day for USW is Rs.178.30/-
- 34 The contractor have to follow all statutory requirements like PF ,ESI etc.,through out the contract period.
- 35 The General conditions of contract in force shall apply to this contract.
- 36 The contractor is required to engage a Diploma holder Engineer through out the contract period.
- 37 Time is essence of the contract. Any delay beyond the delivery date will be subjected to LD.
- 38 "Tenderers are requested to visit the site and verify themselves about the actual site conditions to know about the site facilities, distances and assess the site condition before quoting for the job. No compensation for not acquainting themselves with the actual site conditions will be entertained at the later stage.
- 39 All materials shall confirm to the latest IS/IRC/MORTH specifications.
- 40 Cement and Reinforcement steel will be issued free of cost for theoretical consumption and at a recovery rate of Rs 5,750.00 / MT and Rs 51,750.00 / MT respectively. Structural steel and AC sheets will also be issued free of cost for theoretical consumption and at a recovery rate of Rs 48,875.00 / MT and Rs. 287.50 / Sqm respectively. Upto 5% over and above the theoretical consumption beyond which penal recovery will be effected at the double the rates specified above.

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# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/C/11/39

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN TOWNSHIP

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
2.31	01	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	300.000	sqm	2.64	792.00
2.32	02	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	200.000	sqm	1.36	272.00
2.33	03	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material and disposal of unserviceable material.			0.00	.00
2.33.1	03A	Beyond 30 cm girth upto and including 60 cm girth	7.000	each	81.70	571.90
2.33.2	03B	Beyond 60 cm girth upto and including 120 cm girth	3.000	each	359.80	1079.40
2.1	04	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed :			0.00	.00
2.1.1	04A	All kinds of soil	300.000	sqm	20.74	6222.00
2.6	05	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, disposed earth to be levelled and neatly dressed.			0.00	.00
2.6.1	05A	All kinds of soil	415.000	cum	101.85	42267.75
2.7	06	Earth work in excavation by mechanical means (Hydraulic			0.00	.00

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# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/C/11/39

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN TOWNSHIP

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.						
2.7.1	06A	Ordinary rock	12.000	cum	152.60		1831.20	
2.7.2	06B	Hard rock (requiring blasting)	10.000	cum	252.20		2522.00	
2.26	07	Extra for every additional lift of 1.5 m or part thereof in.			0.00		.00	
2.26.1	07A	All kinds of soil.	50.000	cum	18.90		945.00	
2.26.2	07B	Ordinary or hard rock.	10.000	cum	33.85		338.50	
2.8	08	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					.00	
2.8.1	08A	All kinds of soil.	48.000	cum	103.40		4963.20	
2.25	09	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	175.000	cum	45.70		7997.50	
2.27	10	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	20.000	cum	301.50		6030.00	
1.1.2/4	11A	Conveyance of earth, sand, gravel etc by contractor's own lorry for loading, leading, unloading, stacking or spreading as per the instruction of Engineer-In-Charge from 0.0KM to 1.0KM	100.000	CUM	49.42		4942.00	

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BOILER AUXILIARIES PLANT

RANIPET - 632406

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ESTIMATE REF NO : CF/C/11/39

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN TOWNSHIP

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
1.1.2/5	11B	Conveyance of earth, sand, gravel etc by contractor's own lorry for loading, leading, unloading, stacking or spreading as per the instruction of Engineer-In-Charge from 1.0KM to 2.0KM	315.000	CUM	56.41		17769.15	
4.1	12	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :			0.00		.00	
4.1.4	12A	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size).	12.000	cum	1538.10		18457.20	
4.1.7	12B	1:3:6 (1 Cement : 3 fine sand : 6 graded stone aggregate 40 mm nominal size).	5.000	cum	1421.70		7108.50	
4.1.9	12C	1:4:8 (1 cement : 4 fine sand : 8 graded stone aggregate 40 mm nominal size)	37.000	cum	1416.40		52406.80	
5.9	13	Centering and shuttering including strutting, propping etc. and removal of form for :			0.00		.00	
5.9.1	13A	Foundations, footings, bases of columns, etc. for mass concrete.	97.000	sqm	119.25		11567.25	
5.9.2	13B	Walls (any thickness) including attached pilasters, buttersses, plinth and string courses etc.	960.000	sqm	180.40		173184.00	
5.9.3	13C	Suspended floors, roofs, landings, balconies and access platform.	190.000	sqm	187.35		35596.50	
5.9.6	13D	Columns, Pillars, Piers, Abutments, Posts and Struts.	7.000	sqm	238.40		1668.80	
5.9.7	13E	Stairs, (excluding landings) except spiral-staircases.	8.000	sqm	204.00		1632.00	
AGT02/10-11	14	Providing pockets or holes in foundations for holding down bolts using GI pipes or 12mm thick plywood including fixing the pipes or/and plywood of required sizes in position to correct alignment level and removal of the form work.Rate all inclusive.	10.000	SQM	718.75		7187.50	

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CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
5.22	15	STEEL REINFORCEMENT Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			0.00			.00
5.22.3	15A	Cold twisted bars	20500.000	kilo	6.19			126895.00
5.33	16	DESIGN MIX CONCRETE Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410kg. of cement per cum of concrete. All work up to floor V level.	34.000	cum	2025.65			68872.10
5.37	17	Providing and laying in position ready mixed concrete manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per	180.000	cum	4356.50			784170.00

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NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN TOWNSHIP

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. M-25 grade Reinforced cement concrete by using 410kg of cement per cum of concrete. All works up to floor V level.						
5.34	18	Add or deduct for providing richer or leaner mixes respectively at all floor levels.			0.00			.00
5.34.2	18A	Providing M-35 grade concrete by using 428kg of cement per cum of concrete instead of M-25 grade B.M.C./ R.M.C...	180.000	cum	98.20			17676.00
5.39	19	Extra for carriage of R.M.C. beyond the initial lead of 10km.	3780.000	CUM/KM	20.90			79002.00
13.1	20	CEMENT PLASTER (IN FINE SAND) 12 mm cement plaster of mix :			0.00			.00
13.1.1	20A	1:4 (1 cement: 4 fine sand)	1030.000	sqm	49.24			50720.03
13.1.2	20B	1:6 (1 cement: 6 fine sand)	125.000	sqm	49.02			6127.50
13.2	21	15 mm cement plaster on the rough side of single or half brick wall of mix :			0.00			.00
13.2.2	21A	1:6 (1 cement: 6 fine sand)	140.000	sqm	56.30			7882.00
13.16	22	6 mm cement plaster of mix :			0.00			.00
13.16.1	22A	1:3 (1 cement: 3 fine sand)	33.000	sqm	43.16			1424.28
13.21	23	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers. {UNIT - Per bag of 50 kg cement used in the Mix}	105.000	bag	28.85			3029.25
10.2	24	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:	1250.000	kg	9.41			11762.50

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CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
10.26	25	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing and staircase railing including applying a priming coat of approved steel primer.			0.00		.00	
10.26.1	25A	M.S. tube.	50.000	kg	62.35		3117.50	
13.61	26	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :			0.00		.00	
13.61.1	26A	Two or more coats on new work	40.000	sqm	35.35		1414.00	
6.1	27	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:			0.00		.00	
6.1.2	27A	Cement mortar 1:6 (1 cement : 6 coarse sand)	5.000	cum	1798.31		8991.56	
6.4	28	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in :			0.00		.00	
6.4.2	28A	Cement mortar 1:6 (1 cement : 6 coarse sand)	33.000	cum	2106.81		69524.81	
11.21	29	Providing and fixing 10mm thick acid and/or alkali resistant tiles of approved make and colour using acid and or alkali resisting mortar bedding and joints filled with acid and/or alkali resisting cement as per IS : 4457 complete as per the direction of Engineer-in- Charge.			0.00		.00	
11.21.1	29A	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand).			0.00		.00	
11.21.1.1	29A1	Acid and alkali resistant tile.	8.000	sqm	873.00		6984.00	
11.21.2.1	29B	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand). Acid and alkali resistant tile.	57.000	sqm	909.15		51821.55	
13.52	30	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate			0.00		.00	

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NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN TOWNSHIP

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		priming coat, preparation of surface, etc. complete.						
13.52.2	30A	On concrete work	500.000	sqm	77.75		38875.00	
4.17	31	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed by dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	80.000	sqm	165.73		13258.40	
4.11	32	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	15.000	sqm	95.25		1428.75	
7.1	33	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with :			0.00		.00	
7.1.1	33A	Cement mortar 1:6 (1 cement : 6 coarse sand)	35.000	cum	1411.96		49418.60	
11.4	34	52 mm thick cement concrete flooring with concrete hardener topping under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume .hardening compound is mixed @ 2 litre per 50kg of cement or as per manufacturers specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	35.000	sqm	167.01		5845.35	
5.1	35	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of			0.00		.00	

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NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN TOWNSHIP

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		centering, shuttering, finishing and reinforcement - All work up to plinth level :						
5.1.2	35A	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	8.000	cum	1662.00		13296.00	
DATA	36	Providing and laying weathering course on top of roof slab with brick jelly of size 20mm and pure lime (no sand) in the proportion of 32:12.5 to an average thickness of 75mm concrete well beaten with wooden battens so as to secure a minimum slope of 1 in 48 and top finished with two courses of ressed tiles of size 25 cm x 25cm x 1.2 cm set in cement mortar 1:3 mixed with crude oil at 10% by weight of cement and pointing with the same oiled mortar etc. complete as per standard specifications.Cement only will be issued free of cost at BHEL stores.	50.000	SQM	583.50		29175.00	
12.45	37	Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I.			0.00		.00	

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



## BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

### PRICE BID

ESTIMATE REF NO : CF/C/11/39

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN TOWNSHIP

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		channel with connecting clips made out of 2.64mm diax230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting with :						
12.45.1	37A	12.5 mm thick tapered edge gypsum board conforming to IS: 2095- Part I.	33.000	sqm	502.10		16569.30	
21.1	38	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required			0.00		.00	

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# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/C/11/39

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN TOWNSHIP

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) :						
21.1.1.1	38A	For fixed portion			0.00			.00
21.1.1.2	38A1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	125.000	kg	306.30			38287.50
21.1.2	38B	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).			0.00			.00
21.1.2.2	38B1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	75.000	kg	326.60			24495.00
21.3	39	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-incharge. (Cost of aluminium snap beading shall be paid in basic item):			0.00			.00
21.3.1	39A	With float glass panes of 4.0 mm thickness	15.000	sqm	554.95			8324.25
21.3.2	39B	With float glass panes of 5.50 mm thickness	3.000	sqm	673.55			2020.65
21.2	40	Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade 1 Type 11, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of			0.00			.00

CONTRACTOR/ TENDERER

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# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/C/11/39

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN TOWNSHIP

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		engineer-in-charge.						
21.2.2	40A	Pre-laminated particle board with decorative lamination on both sides.	2.000	sqm	812.60		1625.20	
9.103	41	Providing and fixing bright finished brass 100 mm mortice latch and lock ISI marked with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles with necessary screws etc. complete (Best make of approved quality).	2.000	each	435.90		871.80	
21.4	42	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.			0.00		.00	
21.4.1	42A	With stainless steel cover plate	2.000	each	1733.50		3467.00	
9.97	43	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade with necessary screws etc. complete :			0.00		.00	
9.97.2	43A	250x10 mm	4.000	each	62.20		248.80	
12.41	44	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 10 mm gap for thermal expansion.(i) Single socketed pipes.			0.00		.00	
12.41.2	44A	110 mm diameter	12.000	metre	163.40		1960.80	
12.42	45	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to			0.00		.00	

CONTRACTOR/ TENDERER

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## BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

### PRICE BID

ESTIMATE REF NO : CF/C/11/39

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN TOWNSHIP

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.						
12.42.5	45A	Bend 87.5°			0.00			.00
12.42.5.2	45A1	110 mm bend	3.000	each	134.20			402.60
12.42.6	45B	Shoe (Plain)			0.00			.00
12.42.6.2	45B1	110 mm Shoe	3.000	each	263.10			789.30
12.43	46	Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.			0.00			.00
12.43.2	46A	110 mm	12.000	each	96.90			1162.80
16.68	47	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with coarse sand etc. all complete as per the direction of Engineer-in-charge.	100.000	sqm	346.35			34635.00
13.37	48	White washing with lime to give an even shade:			0.00			.00
13.37.1	48A	New work (three or more coats)	35.000	sqm	6.75			236.25
13.46	49	Finishing walls with Acrylic Smooth exterior paint of required shade :			0.00			.00
13.46.1	49A	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including base coat of water	740.000	sqm	50.40			37296.00

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## BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

### PRICE BID

ESTIMATE REF NO : CF/C/11/39

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN TOWNSHIP

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		proofing cement paint applied @ 2.20 kg/ 10 sqm).						
13.41	50	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade			0.00			.00
13.41.1	50A	New work (two or more coats) over and including priming coat with cement primer.	125.000	sqm	41.55			5193.75
CF26/08-09	51	Grouting the holding down bolts and underneath the base plate etc. after alignment with non shrink free flow grout mix of SHRINKOMP-30(ACC's make) or equalant as per Standard specification and instruction of Engineer incharge. Rate to include charges for cleaning the sleeves or pockets and other incidental charges, tools and plants etc. complete	0.300	CUM	40422.55			12126.77
4.15	52	Extra for laying concrete in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete. {cum per meter depth} Note for item No. 4.15 :- The quantity will be calculated by multiplying the depth measured from the sub-soil water level up to centre of gravity of concrete under sub-soil water level with quantity of concrete in cum executed under sub-soil water. The depth of centre of gravity shall be reckoned correct to 0.1m, 0.05m or more shall be taken as 0.1m and less than 0.05m ignored.	60.000	CUM/ M	DEP	180.75		

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# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/C/11/39

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN TOWNSHIP

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
					10845.00			
NOTE FOR 4.1	52N	Note for item No.4.15:- The quantity will be calculated by multiplying the depth measured from the sub-soil water level upto centre of gravity of concrete under sub-soil water level with quantity of concrete in cum executed under sub-soil water. The depth of centre of gravity shall be reckoned correct to 0.1m; 0.05m or more shall be taken as 0.1m and less than 0.05m ignored.						.00
22.4	53	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete :			0.00			.00
22.4.1	53A	Serrated with central bulb (225mm wide, 8-11mm thick).	300.000	metre	386.75			116025.00

# Escalation is not applicable for this Item Sl. No.

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/C/11/39

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN TOWNSHIP

TOTAL ESTIMATED VALUE BEFORE ESCALATION 2174646.10

\*\*ESCALATION @ 36.00 % 782872.60

TOTAL ESTIMATED VALUE (A) 2957518.70

CONTRACTOR TENDER PERCENTAGE @ ABOVE  1  
 BELOW  2  
 AT PAR  3

(Percentage in words

SUB TOTAL

Please see the last  
page (separate excel  
sheet) for quoting

if at par (A)

\*SERVICE TAX @ \_\_\_\_\_ %

SERVICE HEAD :

TOTAL VALUE OF WORK [ (C) + (D) ]

(Rupees in words

- NOTE :**
- 1) Instead of subtraction (for tender % quoted below), Total value of work is calculated by addition erroneously, L1 will be decided based on amount arrived by subtraction only. In the same way, instead of addition (for tender % quoted above), Total value of work is calculated by subtraction erroneously, L1 will be decided based on amount arrived by addition only. Any calculation error will be corrected at actuals.
  - 2) Tick whichever is applicable. In case of omission in Ticking, figures indicated in the amount column will be considered.
  - 3) Boxes 1,2,3 any one box is to be ticked as per quote. Boxes 5,6,7 any one box is to be filled in with appropriate figures. Box 9 value is equal to Box 5 or 6 or 7 plus box 8.
  - \*4) Service Tax at applicable percentage shall be quoted by tenderers. In case Service Tax at composite rate quoted, it will be applicable on BHEL free issue of materials also. In case Service Tax % or Service tax amount is not mentioned, it is presumed that service tax at normal rate is included in the quoted rate.
  - 5) If any discrepancy between figures & words, L1 will decided based on words.
  - 6) Free Issue of Material by BHEL is Rs. **1018853.49 /-**
  - \*\*7) Escalation not included for item sl no. marked with # symbol.

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/C/11/39

NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN TOWNSHIP

### SPECIAL CONDITION

- 1 The tenderer shall quote a percentage above or below or at par, the rates shown in the Bill of Quantities based on CPWD DSR 2007. The percentage quoted shall be clearly written both in words and figures. The contractor should accustom with CPWD DSR & Specifications before quoting.
- 2 The quoted percentage will apply to the individual items uniformly.
- 3 The above rates does not include PF & ESI remittance .The tenderer shall quote inclusive of PF & ESI contribution to their workers.
- 4 Items of work other than those mentioned in Bill of Quantities will have to be carried out at the rates to be fixed by this organisation .The same offered percentage will be applicable with reference to CPWD DSR 2007.
- 5 Safety precautions should be taken while doing the work. You will have to follow all safety requirements to carry out the work inside the factory premises.
- 6 **CONTRACT CONDITIONS ON TAXES & DUTIES**
- 7 a. The Tenderer shall have been Registered under Excise, Sales Tax, VAT, Service Tax regulations if applicable and provide a copy of such registration to BHEL as part of the tender document. In case of fresh registration/amendment thereon, the same shall be carried out before start of the work. PAN no shall be submitted as part the tender document. (copy to be enclosed)
- 8 b. Service Tax shall be paid by the service provider namely the Tenderer.
- 9 c. Required Tax Invoice as per the existing provisions to be issued in required parts duly signed by the Competent/Authorized Official of the Contractor to BHEL.
- 10 d. If due to deficiency in the document submitted, BHEL could not avail CENVAT, VAT Credit, the credit amount will be recovered from the amount due to the Tenderer .
- 11 e. If payment of statutory dues are not made in accordance with the applicable provisions of the relevant Act within the time specified and Penalty, Interest etc paid/payable by the Contractor, the same shall not be reimbursed by BHEL and the entire implication is only to be born by the Contractor. The Tenderer shall clearly indicate the rate of applicable taxes and duties for the work to be executed.
- 12 f. The Tenderer shall indicate all exemptions on account of thrushold limits or special notification under any stature. Any modification theron shall also be intimated immediately on changes.
- 13 g. The quote submitted shall include all taxes and duties of whatsoever in nature but exclusive of Service Tax which shall be quoted separately if applicable. The existing rate shall be quoted clearly. If reduced rates are applicable on account of material, labour if any the same shall be indicated clearly. After tender opening addition of any tax & duty is not admissible.
- 14 h. f any composition scheme is to be availed by the Tenderer, the all relevant terms and conditions shall be indicated clearly in the offer. The required compliance under relevant statue shall be carried out.
- 15 i. Any statutory variation will be to the account of BHEL. But if the variation is effective during the delayed/extended period of execution for reasons attributable to the vendor, the same shall be borne by the vendor only.
- 16 J1. Whether Servicible Turnover has crossed the Service Tax Threshold Limit as per Service Tax Rules for the tenderer. YES NO Remarks
- 17 J2.Registered with Service Tax authorities Registered with Service Tax authorities YES NO
- 18 J3.If yes copy of Service Tax Regn. Is enclosed YES NO
- 19 J4.Service Tax Registration No.
- 20 J5.Under which Service Head(s):
- 21 J6.Service Tax @ % is applicable as extra for this tender.
- 22 J7.Whether Input credit for the Materials is availed by the tenderer. YES NO
- 23 J8.Whether Input credit for the service portion is availed by the tenderer. YES NO

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/C/11/39  
 NAME OF WORK : CIVIL WORKS FOR SEWAGE TREATMENT PLANT IN TOWNSHIP

- 24 J9.The Toal Value of Work (A+B+C) quoted is in the Tender is Inclusive of Service Tax . (Must be quoted both in figures and words)
- 25 J10.Tenderer has their own PF registration YES NO
- 26 J11.Tenderer has their own ESI registration YES NO
- 27 J12.PAN No. of the Tenderer
- 28 a) Power and water for all civil & road construction works will be provided by BHEL from the nearest tapping point at the recovery rates specified below. The contractor should make necessary arrangement for tapping the same at his own cost.
- b) The Contractor should quote the tender considering the above. The recovery rates towards the cost for these facilities will be @ 1% for water charges & 0.5% for Power charges will be effected from the bills on the executed value as certified by the Engineer-in-charge based on the usage of Power & water.
- c) In case the above facilities are not provided by BHEL, the tenderer has to arrange these facilities at his own cost and the recovery rates of 1% for water charges & 0.5% for Power charges will not be effected on the executed value as certified by the Engineer-in-charge."
- 29 All materials shall confirm to the latest IS/IRC specifications
- 30 Once the work is completed the contractor should remove all the unwanted materials from the site time to time and it should be disposed off as per the instructions of Engineer-in-charge without any further delay.
- 31 All works shall be carried out as per standard specifications and instructions of Engineer-in-charge.
- 32 All materials, colour, shade,brand, etc. shall be got approved from the Engineer-in-charge before the start of the work and shall confirm to the latest IS/IRC specifications.
- 33 The current minimum wages per day for USW is Rs.178.30/-
- 34 The contractor have to follow all statutory requirements like PF ,ESI etc.,through out the contract period.
- 35 The General conditions of contract in force shall apply to this contract.
- 36 The contractor is required to engage a Diploma holder Engineer through out the contract period.
- 37 Time is essence of the contract. Any delay beyond the delivery date will be subjected to LD.
- 38 "Tenderers are requested to visit the site and verify themselves about the actual site conditions to know about the site facilities, distances and assess the site condition before quoting for the job. No compensation for not acquainting themselves with the actual site conditions will be entertained at the later stage.
- 39 All materials shall confirm to the latest IS/IRC/MORTH specifications.
- 40 Cement and Reinforcement steel will be issued free of cost for theoretical consumption and at a recovery rate of Rs 5,750.00 / MT and Rs 51,750.00 / MT respectively. Structural steel and AC sheets will also be issued free of cost for theoretical consumption and at a recovery rate of Rs 48,875.00 / MT and Rs. 287.50 / Sqm respectively. Upto 5% over and above the theoretical consumption beyond which penal recovery will be effected at the double the rates specified above.

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

BHARAT HEAVY ELECTRICALS LIMITED,

BOILER AUXILIARIES PLANT

RANIPET 632 406

**Name of work:** Civil works for sewage treatment plant - 2 Nos. one each in factory and township at BHEL Ranipet

Sl. No.	Description			
1	Civil works for sewage treatment plant in factory (Part I) and Township (Part II)			<b>5915037.40</b>
2	Contractor's Tender percentage @	above (a)	%	
		below (b)	%	
		at par (c)	%	
3	sub total (1+2)			
4	Value of Free issue materials :		2037707.00	
5	consider sub total of Sl. No. 3			
6	sub total (4+5)			
7	Service Tax applicable for the value in Sl. No. 6		%	
8	<b>Grand Total (3+7)</b>			
	Note:			

1. The entire contract will be awarded on a single party. However in case of ordering, 50% of the finalized value will be assigned to part I and 50% will be assigned to aprt II.
2. Value of free issue materials is estimated as Rs. 20.38 lakhs and will be equally apporioned for the purpose of service tax.
3. Billing has to be done seperately for part I & II subject to 1 & 2 above.
4. Note given in page No. 15 & 32 is applicable and shall be considered while quoting.
5. The security Deposit will be calculated seperately for part I & II.