

BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE

ESTIMATE REF NO : CF/CP/09/13

NAME OF WORK : CONSTRUCTION OF OVER HEAD TANK 1.00 LAKH LITRE CAPACITY AND ITS ASSOCIATED WORKS IN FACTORY

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
2.8.1	01	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. All kinds of soils.	70.000	CUM	103.40	7238.00
2.26	02	Extra for every additional lift of 1.5 m or part thereof				
2.26.1	02A	In all kinds of soils	15.000	CUM	18.90	283.50
2.26.2	02B	Ordinary or hard rock.	60.000	CUM	33.85	2031.00
2.9.2	03	Excavation work 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 soils as directed, within a lead of 50m. 2.9.2 Hard rock (requiring blasting)	140.000	CUM	272.95	38213.00
2.25	04	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.	100.000	CUM	45.70	4570.00
2.27	05	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	10.000	CUM	301.50	3015.00
4.1.9	06	Providing and laying in position cement concrete of specified grade excluding the cost of centering and	9.500	CUM	1415.55	13447.73

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

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CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		shuttering - All work up to plinth level :1:4:8 (1 cement: 4 fine sand : 8 graded stone aggregate 40 mm nominal size)						
5.9	07	Centering and shuttering including strutting, propping etc. and removal of form for:						
5.9.1	07A	Foundations, footings, bases of columns, etc. for mass concrete.	50.000	SQ.M	119.25		5962.50	
5.9.2	07B	Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	152.000	SQ.M	180.40		27420.80	
5.9.3	07C	Suspended floors, roofs, landings, balconies and access platform.	92.000	SQ.M	187.35		17236.20	
5.9.5	07D	Lintels, beams, plinth beams, girders, bressumers and cantilevers	185.000	SQ.M	162.65		30090.25	
5.9.6	07E	Columns, Pillars, Piers, Abutments, Posts and Struts	142.000	SQ.M	238.40		33852.80	
5.9.14	07F	Extra for shuttering in circular work in all floors for walls of any thickness attached pillars	138.000	SQ.M	36.10		4981.80	
5.9.14	07G	Extra for shuttering in circular work in all floors for suspended floors, roofs, balcony, lofts etc.	92.000	SQ.M	37.47		3447.24	
5.22.3	08	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Cold twisted bars	16400.000	KG.	6.47		106108.00	
5.33	09	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete work including pumping of concrete to site of laying, but excluding the cost of centering, shuttering finishing and reinforcement including cost of	91.000	CUM	2023.60		184147.60	

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CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
		admixture in recommended proportions as per 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.				
1.1.2	10	Transportation of surplus earth including loading, leading, unloading & levelling up to 2 KM lead	130.000	CUM	56.41	7333.30
10.1	11	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	400.000	KG	6.50	2600.00
19.19.1	12	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality LD-2.5 (Rectangular shape 600x450mm internal dimensions)	4.000	EACH	883.25	3533.00
18.27.1	13	Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536 : 100mm dia pipe	45.000	R.M	737.15	33171.75
DATA	14	Laying of PVC/GI pipe line including trenching and refilling after laying the pipe line. Rate to include all labour charges, incidentals, etc., including transporting of materials from BHEL stores to site of work but excluding pipes & specials which will be supplied free of cost at BHEL stores. 110mm / 90 mm dia pipes	1000.000	R.M	46.90	46900.00
6.1	15	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:				

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CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
					RS	P	RS
6.1.1	15A	Cement mortar 1:4 (1 cement : 4 coarse sand)	10.000	CUM	1801.30		18013.00
13.1.1	16	12mm thick cement plaster of mix 1:4 (1 cement :4 fine sand)	40.000	SQ.M	49.22		1968.62
13.2.1	17	15mm cement plaster on th rough side of single or half brick wall of mix: 1:4 (1 cement : 4 fine sand)	62.000	SQ.M	56.47		3501.31
19.16	18	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete	10.000	EACH	182.40		1824.00
5.11	19	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured)					
5.11.1	19A	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	327.000	SQM	106.20		34727.40
5.38	20	Extra for R.C.C./ B.M.C/ R.M.C. work above floor V level for each four floors or part thereof.	75.000	CUM	92.90		6967.50

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CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
18.31	21	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) : 100mm dia Class I	1.000	EACH	2468.05		2468.05	
22.4	22	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						
22.4.1	22A	serated with central bulb (225mm wide, 8-11 mm thick)	100.000	R.M	386.75		38675.00	
5.12	23	5.12 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size).	0.500	CUM	2913.85		1456.93	
4.12	24	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50kg of cement.	20.000	KG	27.45		549.00	
DATA	25	Laying of PVC/GI pipe line including trenching and refilling after laying the pipe line. Rate to include all labour charges, incidentals, etc., including transporting of materials from BHEL stores to site of work but excluding pipes & specials which will be supplied free of cost at BHEL stores. 75mm / 50mm pipe	1800.000	R.M.	35.50		63900.00	

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TWAD ITEM	26	Providing PVC ventilating arrangements mosquito proof nylon net with 110mm PVC cowl and as directed by the Engineer-in-charge.	4.000	EACH	50.00	200.00
TWAD	27	Providing cut stone slab in Cement mortar 1:3 and as directed by the Engineer-in-charge.	1.000	EACH	50.00	50.00

749884.28

ESCALATION @ 13.00 %

97484.96

TOTAL ESTIMATED VALUE (A)

847369.24

CONTRACTOR TENDER PERCENTAGE @ ABOVE / BELOW / AT PAR _____% (B)

(Percentage in words)

SUB TOTAL (A+B)

SERVICE TAX @ _____% (C)

SERVICE HEAD : _____

TOTAL VALUE OF WORK (A+B+C)

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2.8.1	01	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. All kinds of soils.	70.000	CUM	103.40	7238.00
2.26	02	Extra for every additional lift of 1.5 m or part thereof				
2.26.1	02A	In all kinds of soils	15.000	CUM	18.90	283.50
2.26.2	02B	Ordinary or Hard Rock	60.000	CUM	33.85	2031.00
2.9.2	03	Excavation work 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 soils as directed, within a lead of 50m. 2.9.2 Hard rock (requiring blasting)	140.000	CUM	272.95	38213.00
2.25	04	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.	100.000	CUM	45.70	4570.00
2.27	05	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	10.000	CUM	301.50	3015.00
4.1.9	06	Providing and laying in position cement concrete of specified grade excluding the cost of centering and	9.500	CUM	1415.55	13447.73

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					RS	P	RS	P
		shuttering - All work up to plinth level :1:4:8 (1 cement: 4 fine sand : 8 graded stone aggregate 40 mm nominal size)						
5.9	07	Centering and shuttering including strutting, propping etc. and removal of form for:						
5.9.1	07A	Foundations, footings, bases of columns, etc. for mass concrete.	50.000	SQ.M	119.25		5962.50	
5.9.2	07B	Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	152.000	SQ.M	180.40		27420.80	
5.9.3	07C	Suspended floors, roofs, landings, balconies and access platform.	92.000	SQ.M	187.35		17236.20	
5.9.5	07D	Lintels, beams, plinth beams, girders, bressumers and cantilevers	185.000	SQ.M	162.65		30090.25	
5.9.6	07E	Columns, Pillars, Piers, Abutments, Posts and Struts	142.000	SQ.M	238.40		33852.80	
5.9.14	07F	Extra for shuttering in circular work in all floors for walls of any thickness attatched pillars	138.000	SQ.M	36.08		4979.04	
5.9.14	07G	Extra for shuttering in circular work in all floors for suspended floors, roofs, balcony, lofts etc.	92.000	SQ.M	37.47		3447.24	
5.22.3	08	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Cold twisted bars	16400.000	KG.	6.47		106108.00	
5.33	09	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete work including pumping of concrete to site of laying, but excluding the cost of centering, shuttering finishing and reinforcement including cost of	91.000	CUM	2023.60		184147.60	

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		admixture in recommended proportions as per 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.				
1.1.2	10	Transportation of surplus earth including loading, leading, unloading & levelling up to 2 KM lead	130.000	CUM	56.41	7333.30
10.1	11	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	400.000	KG	6.50	2600.00
19.19.1	12	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality LD-2.5 (Rectangular shape 600x450mm internal dimensions)	4.000	EACH	883.25	3533.00
18.27.1	13	Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536 : 100mm dia pipe	45.000	R.M	737.15	33171.75
DATA	14	Laying of PVC/GI pipe line including trenching and refilling after laying the pipe line. Rate to include all labour charges, incidentals, etc., including transporting of materials from BHEL stores to site of work but excluding pipes & specials which will be supplied free of cost at BHEL stores. 110mm / 90mm pipes.	500.000	R.M	46.90	23450.00
6.1.1	15	Brick work with F.P.S. bricks of class designation 75 in in foundation and plinth level in: Cement mortar 1:4 (1 cement: 4 coarse	10.000	CUM	1801.30	18013.00

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CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		sand)						
13.1.1	16	12mm thick cement plaster of mix 1:4 (1 cement :4 fine sand)	40.000	SQ.M	49.22		1968.62	
13.2.1	17	15mm cement plaster on th rough side of single or half brick wall of mix: 1:4 (1 cement : 4 fine sand)	62.000	SQ.M	56.47		3501.31	
19.16	18	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete	10.000	EACH	182.40		1824.00	
5.11	19	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured)						
5.11.1	19A	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	327.000	SQ.M	106.20		34727.40	
5.38	20	Extra for R.C.C / B.M.C/ R.M.C. work above floor V level for each four floors or part thereof.	75.000	CUM	92.90		6967.50	

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IN TOWNSHIP

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
18.31	21	Providing and fixing 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 Class I	2.000	EACH	2468.05		4936.10	
22.4	22	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 :						
22.4.1	22A	Serrated with central bulb (225mm wide, 8-11 mm thick).	100.000	RM	386.75		38675.00	
5.12	23	5.12 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size).	0.500	CU.M	2913.85		1456.93	
4.12	24	4.12 Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50kg of cement	20.000	KG	27.45		549.00	
DATA	25	Laying of PVC/GI pipe line including trenching and refilling after laying the pipe line. Rate to include all labour charges, incidentals, etc., including transporting of materials from BHEL stores to site of work but excluding pipes & specials which will	450.000	R.M	35.50		15975.00	

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		be supplied free of cost at BHEL stores. 75mm / 50mm pipes.				
TWAD DATA	26	Providing PVC ventilating arrangements mosquito proof nylon net with 110mm PVC cowl and as directed by the Engineer-in-charge.	4.000	EACH	50.00	200.00
TWAD DATA	27	Providing cutstone slab in Cement mortar 1:3 and as directed by the Engineer-in-charge.	1.000	EACH	50.00	50.00

680974.57

ESCALATION @ 13.00 %

88526.69

TOTAL ESTIMATED VALUE (A)

769501.26

CONTRACTOR TENDER PERCENTAGE @ ABOVE / BELOW / AT PAR _____% (B)

(Percentage in words)

SUB TOTAL (A+B)

SERVICE TAX @ _____% (C)

SERVICE HEAD : _____

TOTAL VALUE OF WORK (A+B+C)

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:=====

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

SPECIAL CONDITIONS OF CONTRACT

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.
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 organization. The same offered percentage will be applicable with reference to CPWD DSR 2007.
5. Water will be supplied on chargeable basis @ 1% of the contract value, Power will be charged at the rate of commercial tariff for the consumption and compressed air will be provided free of charges from the nearest tapping point subject to availability. The contractor should make necessary arrangement for tapping the same. In case BHEL is not able to provide the same the contractor has to make his own arrangement for completion of the work at their own cost.
6. 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.
7. All materials shall conform to the latest IS/IRC specifications
8. All the works to be carried out strictly as per the specifications laid down in Tamil Nadu Building practice and also satisfying relevant IS/IRC specifications.
9. Cement, Reinforcement steel, Structural steel and AC sheets will be issued free of cost for theoretical consumption and at a recovery rate of Rs. 6,325.00 / MT Rs. 41,975.00 / MT Rs. 46,500.00 / MT and Rs. 140.00 / Sqm respectively up to 5% over and above the theoretical consumption and beyond which penal recovery will be effected at the double the rates specified above.
10. 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.
11. All the rates are inclusive of scaffolding charges, sundries contingencies, carriage of materials, cost of brush, sand paper, ladder, gum, putty, turpentine, caustic soda or washing soda, mixing charges etc., complete.

12. All works shall be carried out as per standard specifications and instructions of Engineer-in-charge.
13. Base preparation, mixing ratio, etc. shall be as per the recommendations of the manufacturer.
14. 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.
15. The current minimum wages per day for USW is Rs.149.00/day
16. Coefficient of consumption for paint, distemper, cement, etc. shall be as per CPWD 2007 data.
17. The contractor shall have to follow all statutory requirements like PF, ESI, etc., throughout the contract period.
18. The General conditions of contract in force shall apply to this contract. The contractor is required to engage a Degree / Diploma holder Engineer throughout the contract period.
19. Time is essence of the contract. Any delay beyond the delivery date will be subjected to LD.
20. The tenderer may visit the site and assess the prevailing conditions before quoting the rate.

21. CONTRACT CONDITIONS ON TAXES & DUTIES

- a. The Tenderer shall have been Registered under Excise, Sales Tax, Tamil Nadu 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)
- b. Service Tax shall be paid by the service provider namely the Tenderer.
- 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
- 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.
- e. If the payments 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 borne by the Contractor. The Tenderer shall clearly indicate the rate of applicable taxes and duties for the work to be executed.

- f. The Tenderer shall indicate all exemptions on account of threshold limits or special notification under any statute. Any modification thereon shall also be intimated immediately on changes.
- 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.
- h. If 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 statute shall be carried out.
- 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.