

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-16/16-17, Dt: 22.10.2016

PRICE BID

Item no.: 1

Name of work:- Civil works for maintenance of External water supply and repairs to submersible pumpsets in factory and admn. Bldg. area during 2016-17.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	Maint. of External water supply, repairs of submersible pumps.				
	PART - A				
1a	Earth work in excavation in all soils by mechanical means (Hydraulic Excavators) / manual means in foundations trenches or drains (not exceeding 1.5m in width or 10 Sq.m on plan) including dressing of sides and ramming of bottoms, lift up to 1.5m, including getting out the excavated soil and disposal of surplus excavated soil, within a lead of 50M etc., complete all as directed by Engineer-in-charge.	75.00	One Cu.M	130.80	9,810.00
b	----do---- up to First additional depth of 1.50 M to 3.00 M.	20.00	One Cu.M	165.40	3,308.00
c	Excavation in foundations trenches or drains not exceeding 1.5 M in width or 10 sq.m on plan including dressing of sides and ramming of bottom lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil, within a lead of 50 m. Hard rock (blasting prohibited) etc., complete all as directed by Engineer-in-charge.	5.00	One Cu.M	491.95	2,459.75
d(i)	Cutting road and making good the same including supply of extra quantities of materials i.e., aggregate, moorum, screening, and labour required .. Bituminous portion etc., complete all as directed by Engineer-in-charge.	3.00	One Cu.M	1,861.60	5,584.80
d(ii)	... do .. Water bound macadam	2.00	One Cu.M	989.25	1,978.50
	PART - B				
1a	Dismantling (GI pipe external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including staking of pipes within 50 metres lead etc., complete all as directed by Engineer-in-charge. 15 mm to 40 mm nominal bore.	100.00	One R M	44.10	4,410.00
b	... do.. Above 40 mm nominal bore	200.00	One R M	50.30	10,060.00
2a	Same as above for over head pipe lines. 1 1/2" (40 mm) dia. Pipes	50.00	One R M	75.45	3,772.50
b	2" (50 mm) dia. Pipes	30.00	One R M	75.45	2,263.50
c	3" (75 mm) dia. Pipes	50.00	One R M	75.45	3,772.50

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
d	4" (100 mm) dia. Pipes	100.00	One R M	75.45	7,545.00
3a	Dismantling GI over head lines including gas cutting..... 2" (50 mm) dia. Pipes	10.00	One R M	65.55	655.50
b	3" (75 mm) dia. Pipes	10.00	One R M	102.49	1,024.90
c	4" (100 mm) dia. Pipes	10.00	One R M	102.49	1,024.90
4a	Dismantling the existing pipe lines and replacing with new pipes including transportation charges, fixing charges, required white lead, jute etc., complete all as directed by Engineer-in-charge. 1 1/2" (40 mm) Dia pipes	10.00	One R M	408.20	4,082.00
b	2" (50 mm) dia. Pipes	10.00	One R M	503.95	5,039.50
c	3" (75 mm) dia. Pipes	10.00	One R M	611.40	6,114.00
d	4" (100 mm) dia. Pipes	10.00	One R M	863.20	8,632.00
5a	Conveying of C.I. Pipes and specials from stores to site including cost of loading, lowering into trenches, aligning and cutting of pipes to required length where ever necessary including jointing, testing etc., (All C.I. pipes and specials, pig lead, hemp yarn, bolts and nuts, rubber packing, white lead etc., required for the work will be supplied free of cost by BHEL at BHEL stores) etc., complete all as directed by Engineer-in-charge. 6" (150 mm) dia. Pipes	10.00	One R M	193.53	1,935.30
b	8" (200 mm) dia. Pipes	10.00	One R M	194.46	1,944.60
c	14" (350 mm) dia. Pipes	10.00	One R M	263.98	2,639.80
d	16" (400 mm) dia. Pipes	10.00	One R M	263.98	2,639.80
e	600 mm (24") dia. Pipes	10.00	One R M	316.78	3,167.80
6a	Conveying of G.I. Pipes and specials from stores to site including cost of loading, unloading, lowering into trenches, cutting and threading wherever necessary, aligning including jointing and testing etc., complete. all as directed by Engineer-in-charge. (G.I. pipes and specials, pig lead, hemp yarn, bolts and nuts, washers, rubber packing, white lead etc., required for the work will be supplied free of cost by BHEL at their stores). 1 1/2" (40 mm) dia. Pipes	10.00	One R M	43.79	437.90
b	2" (50 mm) dia. Pipes	10.00	One R M	43.79	437.90
c	3" (75 mm) dia. Pipes	10.00	One R M	52.65	526.50
d	4" (100 mm) dia. Pipes	10.00	One R M	54.20	542.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
7a	Conveying of G.I. Pipes and specials from stores to site including cost of loading, unloading, lifting into position and fixing over head pipe line (up to 15.00 M height) including cutting and threading wherever necessary including jointing, testing etc., (G.I. pipes and specials, pig lead, hemp yarn, bolts and nuts, washers, rubber packing, white lead etc., required for the work will be supplied free of cost by BHEL at BHEL stores.) etc., complete all as directed by Engineer-in-charge. 1 1/2" (40 mm) dia. Pipes	10.00	One R M	65.69	656.85
b	2" (50 mm) dia. Pipes	10.00	One R M	65.69	656.85
c	3" (75 mm) dia. Pipes	10.00	One R M	87.58	875.80
d	4" (100 mm) dia. Pipes	200.00	One R M	87.58	17,516.00
8a	Conveying, lowering and fixing of C.I. sluice valves, gun metal valves on C.I./G.I pipes lines at or below ground level (Valves, hemp yarn, bolts and nuts, washers, rubber packing, white lead etc., required for the work will be supplied free of cost by BHEL at BHEL stores.) etc., complete all as directed by Engineer-in-charge. 1 1/2" (40 mm) dia. valves	5.00	Each	252.85	1,264.25
b	2" (50 mm) dia. valves	5.00	Each	252.85	1,264.25
c	3" (75 mm) dia. Valves	5.00	Each	419.35	2,096.75
d	4" (100 mm) dia. Valves	5.00	Each	420.07	2,100.35
e	6" (150 mm) dia. Valves	5.00	Each	908.10	4,540.50
f	8" (200 mm) dia. Valves	2.00	Each	908.10	1,816.20
g	12" (300 mm) dia. Valves	2.00	Each	1,326.41	2,652.82
h	14" (350 mm) dia. Valves	2.00	Each	1,326.41	2,652.82
9a	Conveying, lifting into position and fixing non-return valves /C.I sluice valves/ Gun metal valves on C.I./G.I. over head pipe lines (Valves, hemp yarn, bolts and nuts, washers, rubber packing, white lead etc., required for the work will be supplied free of cost by BHEL at BHEL stores.) etc., complete all as directed by Engineer-in-charge. 1 1/2" (40 mm) dia. valves	2.00	Each	360.03	720.06
b	2" (50 mm) dia. valves	2.00	Each	360.03	720.06
c	3" (75 mm) dia. Valves	2.00	Each	582.71	1,165.42
d	4" (100 mm) dia. Valves	2.00	Each	582.71	1,165.42
	PART - C				
1a	Maint. of water storage reservoirs by sweeping, cleaning the doors and side walls with coir brushes, removing the clay etc., complete all as directed by Engineer-in-charge. Under ground reservoir 5.00 lakhs gallons capacity.	6.00	One operation	5,728.38	34,370.28

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
b	---do--- 2.50 lakh gallons.	6.00	One operation	2,879.28	17,275.68
c	---do--- 1.00 lakh gallons.	6.00	One operation	1,825.17	10,951.02
d	---do--- 20,000 gallons (Admn. Bldg. pump house)	4.00	One operation	1,331.93	5,327.72
e	---do--- 5,000 gallons capacity.	4.00	One operation	665.96	2,663.84
f	over head tank of 40 mt. height and 2.20 lakh gallons capacity (two component of each 1.10 gallons capacity).	3.00	One operation	14,709.64	44,128.92
PART - D					
1	Supply and fixing at site GI flanges including cutting, drilling of holes, welding etc., complete all as directed by Engineer-in-charge.				
a	3" (80 mm) dia. flanges	5.00	Each Pair	274.99	1,374.95
b	4" (100 mm) dia. flanges	5.00	Each Pair	328.89	1,644.45
2a	Making connection of GI distribution branch with GI main of following sizes by providing and fixing 'T' including cutting threading the pipe etc., complete all as directed by Engineer-in-charge. 25 mm to 40 mm nominal bore	6.00	Each	277.35	1,664.10
b	... do.. 2" (50 mm) dia.	6.00	Each	630.15	3,780.90
c	... do.. 3" (75 mm) dia.	6.00	Each	630.15	3,780.90
d	... do... 4" (100 mm) dia.	6.00	Each	630.15	3,780.90
3	Repairing the existing level indicator at a height of 40 M of the over head tank etc., complete all as directed by Engineer-in-charge.	3.00	One operation	1,222.46	3,667.38
PART - E					
1a	Servicing of the submersible pump sets ranging from 7.5 to 12 HP including replacing the required spares (both Electrical & Mechanical), rewinding wherever required, testing and commissioning. The depth of the bore wells on an average of 150 Rft. The rate shall include lifting, erection, transportation from & to water works, to site, erection, testing & commissioning etc., (The rate quoted shall include all materials for repairs, rewinding, required tools such as chain pulley, pipe wrenches, labour etc., and warranty for the bore should be 12 months from the date of commissioning or completion of work which ever is later etc., complete all as directed by Engineer-in-charge.	6.00	One operation	8,584.78	51,508.68
b	Servicing of manoblock submersible pump sets ranging from 1 HP to 2 HP by winding with required stranded copper wire as per the existing specifications etc., complete all as directed by Engineer-in-charge.	3.00	One operation	2,601.45	7,804.35

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
c	Servicing of monoblock fountain pump located within the fountain pool by engaging a sufficient manpower and taking to outside for repairs , the repairs include minor repairs like replacement of bearings , changing of bushes, alignment of shaft , rewinding with the suitable copper wire and any other minor repairs with cost of the material and repainting the same and fixing in the same location for operation of 5 to 10HP etc., complete all as directed by Engineer-in-charge.	4.00	Each	10,779.80	43,119.20
2	Dismantling of the existing motor from pump, Servicing/overhauling of centrifugal pump including winding of motor with a standard specifications as per the existing motor, testing of motor along with the pump, commissioning with a warranty of 12 months period. The rate quoted shall include dismantling, transportation, servicing and re-erection at site etc., complete all as directed by Engineer-in-charge.				
a	20 to 50 HP	2.00	Each	9,885.52	19,771.04
b	Spider washers	5.00	Each	1,061.38	5,306.90
c	63 amps 415 V ICTP switch.	5.00	Each	437.04	2,185.20
d	100 amps 415 V ICTP switch.	5.00	Each	998.95	4,994.75
3	Laying of PVC insulated and aluminium armoured cable ranging from 35 Sq. mm to 70 Sq. mm etc., complete all as directed by Engineer-in-charge.	20.00	One R M	14.96	299.20
4	Supplying and spreading of sand all around the cable to a thickness of 10 cms. Supply and laying bricks all along the cable on both sides, supply and laying of rough Shahabad stone of 30 Cms width and 12 mm thick on top of the brick and refilling the cable trench up to a level of 250 mm above ground level and providing cable markets at every 25 metres etc., complete all as directed by Engineer-in-charge.	40.00	One R M	18.72	748.80
5	Supply & Fixing of 3 core copper flexible submersible cable. 2.5 sq. mm of ISI make and cable jointing to the motor when ever required etc., complete all as directed by Engineer-in-charge.	100.00	One R M	42.44	4,244.00
6	Supply and wrapping PVC insulation tape of standard width (of ISI make) for jointing of cables etc., complete all as directed by Engineer-in-charge.	15.00	Each	12.48	187.20
7a	Supplying and fixing the spares for the control panel for the submersible pump sets of the make "L&T", cutter, hammer or Siemens etc., complete all as directed by Engineer-in-charge. Contractor kit 32 Amps, Model ML1.5/MI 3.	20.00	Each	499.47	9,989.40
b	H R C Fuse base 100/125 Amps, bus bar type.	10.00	Each	156.08	1,560.80
c	H R C Fuse links (TCP 100) 100 Amps	10.00	Each	156.08	1,560.80

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
8	Dismantling reinforced cement concrete / plain cement concrete and disposing of debris up to to a lead of 2 KM including loading, unloading and spreading etc., complete all as directed by Engineer-in-charge.	6.00	Cu.m	1,054.10	6,324.60
9	Dismantling brick masonry walls for all heights, removing and clearing the debris and carting away up to to lead of 2 KM including loading, unloading and spreading segregating useful materials including the cost of all labour scaffolding etc., complete all as directed by Engineer-in-charge.	6.00	Cu.m	641.75	3,850.50
10	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering ,shuttering, finishing and reinforcement ,including consolidation by vibrations for all works up to plinth level with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size) etc., complete all as directed by Engineer-in-charge.	6.00	Cu.M	2,772.00	16,632.00
11	Brick work with Ground moulded clay FPS brick of class designation 75 in super structure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 Coarse sand) etc., complete all as directed by Engineer-in-charge.	5.00	Cu.M	3,513.00	17,565.00
12	Plastering in CM 1:6 , 20 mm thick to internal and external surfaces of walls including the cost of all materials, labour, curing-Upto 10.00 M level etc., complete all as directed by Engineer-in-charge.	50.00	Sq.m	124.00	6,200.00
13	Providing and Fixing PTMT waste coupling for wash basin and sink, of approved quality and colour - waste Coupling 31 mm of 79 mm length and 62 mm breadth weighing not less than 45 gms etc., complete all as directed by Engineer-in-charge.	6.00	Each	94.35	566.10
14	Providing 5000 litres water tanker whenever required inside the factory area with tractor. The cost includes keeping the water tanker at least 8 hours at single point to fulfill the requirement and also if required in a day with the same tractor 2 or 3 trips are more to be provided. The required water will be given by BHEL main water works. The Payment will be made for each trip of water supply etc., complete all as directed by Engineer-in-charge.	200.00	Operations	1,814.96	3,62,992.00
	Total Value of work (Part A to E)			₹	8,39,494.91

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
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Note:

1	A penalty of 0.5% of the gross value of work will be levied for every week's delay of work or part there of subject to a maximum penalty of 10% of the gross value of work executed after the period of completion.
2	The rates are inclusive of all taxes and duties except Service tax, swatch bharat tax, Krishi Kalyan Cess which is extra as per service tax norms will be paid by BHEL to the agency after submission of necessary documents.
3	The tender % age quoted by the contractor shall be inclusive of all taxes and duties other than service tax as applicable from time to time.
4	All the bills of the contractors will be cleared subject to the production of clearance certificate by the contractors in respect of compliance of all statutory requirement, issued by IR section of HR department BHEL.
5	The agency shall submit the I.R. clearance certificate for the above work and arrange to get the final bill sent to Finance within one month from the actual date of completion of work.
6	The maintenance period of the work is 6 months . The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill.
7	The agency has to pay the minimum wages to workers with statutory payments like ESI, PF etc., is as per BHEL notification and as per NIT. For USW=₹ 500.80, SSW=₹ 553.15, SW = ₹ 604.96 + ESI + PF + PPE's and other statutory if any.
8	The agency has to bring police clearance certificate for the work force.
9	All the terms and conditions of the contact with respect to taxes & duties are subject to the new taxation lows introduced from time to time (e.g. GST). The terms and conditions will be modified in accordance with the provisions of new laws (e.g. GST).

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

Tender %	In figure	In words
Excess		
Less		
Estimated value		