

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
<b>Clear water pumping main of 350 mm DI K9 Pipe line - 6810 M &amp; 300 mm DI-K9 - 600M Pipe line along with all accessories.</b>				
0.30 KM-Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in charge.	2.3600	Cum	786.00	1854.96
0.30 KM-Dismantling of flexible pavements and disposal of dismantled materials upto a lead of 1000meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.- Bituminous courses	4.7300	Cum	420.00	1986.60
0.30 KM-Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means(exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. - For Hard Rock (requiring blasting)	75.6000	Cum	405.00	30618.00
0.30 KM-Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed - Ordinary rock	109.2000	Cum	261.00	28501.20
0.30 KM-Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. - All kinds of soil	382.2000	Cum	151.00	57712.20
0.30 KM-Extra for every additional lift of 1.5 m or part thereof in. All kinds of soils	42.0000	Cum	66.00	2772.00
0.30 KM-Filling available excavated earth in trenches, plinth sites of foundation in layers not exceeding 20cm in depth including consolidation of each layer by ramming, watering, lead upto 50m and lift upto 1.5m in all kinds of soil.	420.0000	Cum	89.00	37380.00

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Particulars	Est. Qty	Unit	Est. Price	Est. Cost
0.30 KM-Providing & Laying Ductile Iron Double Socket 45° Bends conforming to IS- 9523/2000 having dimension as per table 16 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conforming - 300 mm Dia Pipe	1.0000	Each	3715.00	3715.00
0.30 KM-Providing & Laying Ductile Iron Double Socket 90° Bends conforming to IS- 9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conforming - 300 mm Dia Pipe	1.0000	Each	4932.00	4932.00
0.30 KM-Providing & Laying Ductile Iron Double Socket 11.25° bends conforming to IS- 9523/2000 having dimension as per table 18 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining - 300 mm Dia Pipe	1.0000	Each	2884.00	2884.00
0.30 KM-Providing & Laying Ductile Iron Double Socket 22.5° Bends conforming to IS- 9523/2000 having dimension as per table 17 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conformi - 300 mm Dia Pipe	1.0000	Each	3186.00	3186.00
0.30 KM-Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate.	6.3000	Cum	4755.00	29956.50
0.30 KM-Providing & fixing of following Ductile iron double flanged sluice valves glandless, resilient (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalent grade or of higher tensile strength grade, as per IS: 3896 part-II-1986 and subsequent revision, wedge fully rubber lined with EPDM food grade quality and seals of NBR. The valve should be with replaceable nut and replaceable sliding shoes, valve stems shall be of single piece thread rolled. Sluice valve shall be compitable for buried applications without valve chambers. The valve should be vaccum tight and 100% leakproof with face to face dimensions as BS: 5163-89/ IS: 14846/2000/DIN 3204 F4 and flange connections as per IS:1538. Valve should be with electrostatic powder coating both inside and outside (thickness 250 micron)with pocketless straight thro body passage including jointing and testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete. Class PN1.6 - 300 mm Dia Valve	1.0000	Each	45616.00	45616.00
0.30 KM-Providing Valve Chamber including Cost of Material & Labour Etc to Complete the Item of the Work.	2.0000	Each	18611.00	37222.00
0.30 KM-Providing, laying and jointing socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-9) conforming to IS 8329/2000 with suitable Rubber Gasket (Push on) joints as per IS:12288/87 including testing of joint - 300 mm Dia Pipe	600.0000	Mtrs	3920.00	2352000.00

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Particulars	Est. Qty	Unit	Est. Price	Est. Cost
0.30 KM-Providing, fixing in position and jointing in pipe line DI Kinetic Double Air Valves of following dia (including jointing and jointing material), including all material,labour, testing and commissioning as per Technical Specifications..(P.N-1.6). - 100 mm Dia Valve	1.0000	Each	13500.00	13500.00
0.30 KM-Providing, Laying & Jointing (i/c all jointing material) & testing of welded/Socketed double flanged centrifugal cast (spun) ductile Iron pressure pipes conforming to IS:8329/2000 in the length of 1m. for class K-9 with inside cement mortarlining for the sizes/dia pipes. - 100 mm Dia Pipe	1.0000	Mtrs	6763.00	6763.00
0.30 KM-Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.	21.0000	Cum	478.00	10038.00
0.30 KM-Supplying and filling in plinth under floors including,watering, ramming consolidating and dressing complete. Crusher Stone Dust	4.7300	Cum	687.00	3249.51
0.30 KM-Thrust Block -300 mm Ø Pipes	1.0000	Each	11870.00	11870.00
6.81 KM-Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in charge.	17.7200	Cum	786.00	13927.92
6.81 KM-Dismantling of flexible pavements and disposal of dismantled materials upto a lead of 1000meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.- Bituminous courses	23.6300	Cum	420.00	9924.60
6.81 KM-Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means(exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. - For Hard Rock (requiring blasting)	944.8900	Cum	405.00	382680.45
6.81 KM-Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed - Ordinary rock	1379.0300	Cum	261.00	359926.83
6.81 KM-Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. - All kinds of soil	4826.5900	Cum	151.00	728815.09
6.81 KM-Extra for every additional lift of 1.5 m or part thereof in. All kinds of soils	510.7500	Cum	66.00	33709.50

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Particulars	Est. Qty	Unit	Est. Price	Est. Cost
6.81 KM-Filling available excavated earth in trenches, plinth sites of foundation in layers not exceeding 20cm in depth including consolidation of each layer by ramming, watering, lead upto 50m and lift upto 1.5m in all kinds of soil.	5107.5000	Cum	89.00	454567.50
6.81 KM-Providing & Laying Ductile Iron Double Socket 45° Bends conforming to IS- 9523/2000 having dimension as per table 16 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conforming - 350 mm Dia Pipe	8.0000	Each	6741.00	53928.00
6.81 KM-Providing & Laying Ductile Iron Double Socket 90° Bends conforming to IS- 9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conforming - 350 mm Dia Pipe	6.0000	Each	9064.00	54384.00
6.81 KM-Providing & Laying Ductile Iron Double Socket 11.25° bends conforming to IS- 9523/2000 having dimension as per table 18 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining - 350 mm Dia Pipe	12.0000	Each	4950.00	59400.00
6.81 KM-Providing & Laying Ductile Iron Double Socket 22.5° Bends conforming to IS- 9523/2000 having dimension as per table 17 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conformi - 350 mm Dia Pipe	10.0000	Each	5583.00	55830.00
6.81 KM-Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate.	36.7500	Cum	4755.00	174746.25
6.81 KM-Providing & fixing of following Ductile iron double flanged sluice valves glandless, resilient (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalent grade or of higher tensile strength grade, as per IS: 3896 part-II-1986 and subsequent revision, wedge fully rubber lined with EPDM food grade quality and seals of NBR. The valve should be with replaceable nut and replaceable sliding shoes, valve stems shall be of single piece thread rolled. Sluice valve shall be compitable for buried applications without valve chambers. The valve should be vaccum tight and 100% leakproof with face to face dimensions as BS: 5163-89/ IS: 14846/2000/DIN 3204 F4 and flange connections as per IS:1538. Valve should be with electrostatic powder coating both inside and outside (thickness 250 micron)with pocketless straight thro body passage including jointing and testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete. Class PN1.6 - 350 mm Dia Valve	3.0000	Each	98599.00	295797.00
6.81 KM-Providing Valve Chamber including Cost of Material & Labour Etc to Complete the Item of the Work.	12.0000	Each	20694.00	248328.00

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Particulars	Est. Qty	Unit	Est. Price	Est. Cost
6.81 KM-Providing, laying and jointing socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-9) conforming to IS 8329/2000 with suitable Rubber Gasket (Push on) joints as per IS:12288/87 including testing of joint - 350 mm Dia Pipe	6810.0000	Mtrs	5200.00	35412000.00
6.81 KM-Providing, fixing in position and jointing in pipe line DI Kinetic Double Air Valves of following dia (including jointing and jointing material), including all material, labour, testing and commissioning as per Technical Specifications..(P.N-1.6). - 150 mm Dia Valve	9.0000	Each	29500.00	265500.00
6.81 KM-Providing, Laying & Jointing (i/c all jointing material) & testing of welded/Socketed double flanged centrifugal cast (spun) ductile Iron pressure pipes conforming to IS:8329/2000 in the length of 1m. for class K-9 with inside cement mortar lining for the sizes/dia pipes. - 150 mm Dia Pipe	9.0000	Mtrs	9106.00	81954.00
6.81 KM-Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.	255.3800	Cum	478.00	122071.64
6.81 KM-Supplying and filling in plinth under floors including,watering, ramming consolidating and dressing complete. Crusher Stone Dust	27.5600	Cum	687.00	18933.72
6.81 KM-Thrust Block -350 mm Ø Pipes	6.0000	Each	22030.00	132180.00
<b>Total Estimate</b>				41644361.47
<b>Provision for electrical connections for power pumps and Electrical fitting</b>				
100 KVA on 175x85mm,11.0 Mtrs.long RS joist	1.0000	Nos	324307.00	324307.00
315 KVA on 175x85mm,11.0 Mtrs.long RS joist	4.0000	Nos	870146.00	3480584.00
33 KV line on H-Beams 152 X 152 mm., 37.1 Kg./Mtr. 13 Mtr. Long supports with Dog conductor with average span of 40 mtr	24.0000	KM	1409588.00	33830112.00
63 KVA on 140 Kg., 8.0 Mtrs.long PCC poles	2.0000	Nos	214237.00	428474.00
L.T.Lines 3 Phase 4 wire on PCC Supports Using Rabbit/Weasel Conductors with maximum span of 50 mtrs	6.7000	KM	295685.00	1981089.50
Three Phase Electronic meter 10-40 amps with data downloading facility & box with poly carbonate meter box	3.0000	Nos	9028.00	27084.00
<b>Total Estimate</b>				40071650.50
<b>Construction of Compound Wall with Gate for All OHTs</b>				
20 mm cement plaster of mix :1:4 (1 cement: 4 sand)	8400.0000	Sqm	212.00	1780800.00
Brick work with well burnt chimney bricks in bulls patent trench kiln,crushing strength not less than 25kg /sqcm and water absorption not more than 20% in foundation and plinth	902.4000	Cum	4435.00	4002144.00
Cost for Provision of Gate	24.0000	Nos	24150.00	579600.00
Coursed rubble masonry (second sort) with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)	441.6000	Cum	4180.00	1845888.00

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Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed.	2445.6000	Cum	151.00	369285.60
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. - Ordinary rock	614.1600	Cum	261.00	160295.76
Filling available excavated earth in trenches, plinth sites of foundation in layers not exceeding 20cm in depth including consolidation of each layer by ramming, watering, lead upto 50m and lift upto 1.5m in all kinds of soil.	1848.0000	Cum	89.00	164472.00
Finishing walls with Acrylic Smooth exterior paint of required shade:New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	8400.0000	Sqm	93.00	781200.00
Providing and laying damp-proof course 40mm thick with cement concrete M 15 (Nominal Mix) with 10/12 mm maximum size of stone aggregate.	504.0000	Sqm	240.00	120960.00
Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.	340.8000	Cum	4219.00	1437835.20
Providing and laying Plain/Reinforced cement concrete in sub-structure as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2200 - M25 - Column above the ground level	93.6000	Cum	5362.00	501883.20
Providing and laying Plain/Reinforced cement concrete in sub-structure as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2200 - M25 - Column Upto GL	31.2000	Cum	5362.00	167294.40
Providing and laying Plain/Reinforced cement concrete in sub-structure as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2200 - M25 - footings	439.2000	Cum	5362.00	2354990.40
Providing and laying Plain/Reinforced cement concrete in sub-structure as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2200 - M25 - R.C.C Plinth beams	151.2000	Cum	5362.00	810734.40
<b>Total Estimate</b>				<b>15077382.96</b>
<b>Construction of Intakewell cum Pumphouse with 8.0 m dia 50m Height cum-pump House.</b>				
Add extra for using salt and charcoal/coke for pipe earth electrode as required including excavation &refilling .	1.0000	Each	485.00	485.00
Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : Old work (one or more coats) - ceiling	50.2400	Sqm	25.00	1256.00

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Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : Old work (one or more coats) - Inner side	150.8200	Sqm	25.00	3770.50
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. Hard rock (blasting prohibited)	394.3300	Cum	559.00	220430.47
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. Hard rock (requiring blasting)	394.3300	Cum	405.00	159703.65
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kind of soil	534.2200	Cum	151.00	80667.22
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kind of soil - 1.5 to 3 m Depth	497.2600	Cum	181.20	90103.51
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kind of soil - 10.5 to 12 m Depth	303.3300	Cum	362.40	109926.79
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kind of soil - 12 to 13.5 m Depth	275.6400	Cum	392.60	108216.26
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kind of soil - 13.5 to 15 m Depth	249.2800	Cum	422.80	105395.58

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Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kind of soil - 15 to 16.5 m Depth	224.2400	Cum	453.00	101580.72
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kind of soil - 16.5 to 18 m Depth	200.5300	Cum	483.20	96896.10
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kind of soil - 18 to 19.5 m Depth	130.6400	Cum	513.40	67070.58
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kind of soil - 3 to 4.5 m Depth	461.6300	Cum	211.40	97588.58
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kind of soil - 4.5 to 6 m Depth	427.3200	Cum	241.60	103240.51
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kind of soil - 6 to 7.5 m Depth	394.3300	Cum	271.80	107178.89
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kind of soil - 7.5 to 9 m Depth	362.6700	Cum	302.00	109526.34



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Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kind of soil - 9 to 10.5 m Depth	332.3400	Cum	332.20	110403.35
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kind of soil - Pipe	312.5000	Cum	392.60	122687.50
Earthing with G.I earth plate 600mmx600mmx6mm thick including accessories and providing masonry encloser in cement mortar cover plate having locking arrangement on the top and GI watering pipe 20mm dia 2.7 mts long etc.(but without charcoal or coke and salt ) complete as required.	1.0000	Each	2439.00	2439.00
Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. - at 1m Below water Level	39.6600	Cum	270.00	10708.20
Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. - at 2m Below water Level	39.6600	Cum	334.00	13246.44
Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. - at 3m Below water Level	39.6600	Cum	398.00	15784.68
Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. - at 4m Below water Level	39.6600	Cum	462.00	18322.92
Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. - at 5m Below water Level	44.7700	Cum	526.00	23549.02
Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. - at 6m Below water Level	44.7700	Cum	590.00	26414.30
Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. - at 7m Below water Level	44.7700	Cum	654.00	29279.58

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Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. - at 8m Below water Level	44.7700	Cum	718.00	32144.86
Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. - at 9m Below water Level	44.7700	Cum	782.00	35010.14
Extra for mechanical vibration of cement concrete or plum concrete.	23.7500	Cum	38.00	902.50
Extra for providing and fixing steel beading of approved shape and section with screws instead of glazing clips and metal sash putty-(a) Steel doors	4.0000	Sqm	256.00	1024.00
Extra for providing and fixing steel beading of approved shape and section with screws instead of glazing clips and metal sash putty-(b) Steel windows	6.0000	Sqm	332.00	1992.00
Extra rate for black trap, basalt or granite metal (for one cum concrete):- (i) Items 713 (a) & 718 (a)	23.7500	Cum	14.60	346.75
Finishing walls with Acrylic smooth exterior paint of required shade New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	243.0000	Sqm	93.00	22599.00
Lightening Arrester unit	1.0000	Nos	8733.00	8733.00
Plastering with CM(1:3) - 12 mm cement plaster finished with a floating coat of neat cement of mix :	156.4700	Sqm	181.00	28321.07
Plastering with CM(1:3) - 20mm cement plaster 1:3( 1 cement : coarse sand) finished with coat of neat cement	150.8200	Sqm	262.00	39514.84
Providing and fixing M.S. ladder 45cm wide with an angle iron and 20mm M.S. bars at 25cm C/C duly fixing by holes to full depth of angle & welding with necessary supports and angle iron of same section at braces including fixing in ground with CC (M-15) bed and 2 coats of non-poisonous anti-corrosive bituminous, paints as directed. Complete with all lead, lift, loading & unloading charges, cost and conveyance of all materials, labour, equipments including all incidental charges etc., complete. as per the directions of the Engineer in charge of the work. (including inserting in the angle iron and welding) outside OHT	1.0000	Each	25763.00	25763.00
Providing and fixing steel glazed doors, windows and ventilators of standard rolled steel sections, joints mitred and welded with 15x3 mm lugs 10 cm long, with steel lugs, embedded in cement concrete blocks 15x15x10 cm of Nominal mix M10(1:3:6) concrete with 20 mm graded metal or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including providing and fixing of glass panes with glazing clips and special metal sash putty of approved make complete including Applying a priming coat of approved steel primer, excluding the cost of metal beading and other fitting except necessary hinges or pivots as required:- (a) Doors	4.0000	Sqm	2061.00	8244.00

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing and fixing steel glazed doors, windows and ventilators of standard rolled steel sections, joints mitred and welded with 15x3 mm lugs 10 cm long, with steel lugs, embedded in cement concrete blocks 15x15x10 cm of Nominal mix M10(1:3:6) concrete with 20 mm graded metalor with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including providing and fixing of glass panes with glazing clips and special metal sash putty of approved make complete including Applying a priming coat of approved steel primer, excluding the cost of metal beading and other fitting sexcept necessary hinges or pivots as required:-(b) Windows fixed	6.0000	Sqm	1441.00	8646.00
Providing and fixing steel glazed doors, windows and ventilators of standard rolled steel sections, joints mitred and welded with 15x3 mm lugs 10 cm long, with steel lugs, embedded in cement concrete blocks 15x15x10 cm of Nominal mix M10(1:3:6) concrete with 20 mm graded metalor with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including providing and fixing of glass panes with glazing clips and special metal sash putty of approved make complete including Applying a priming coat of approved steel primer, excluding the cost of metal beading and other fitting sexcept necessary hinges or pivots as required:-(c) Windows side hung	6.0000	Sqm	2031.00	12186.00
Providing and laying in position machine batched and machine mixed and machine vibrated design mix cement concrete of M-25 grade mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, 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.	23.7500	Cum	5701.00	135398.75
Providing and placing sand bags consisting of empty cement bags filled with 35 to 40 kg locally available sand for forming ring bund including cost of all materials, labour, plugging joints with selected earth, etc., complete.	10242.0000	Bags	33.00	337986.00
Providing & fixing G.I pipe railing of 32 mm dia G.I pipe B-Class in two rows of roof slab flat landing of elevated storage reservoir including cutting, threading, bending, welding wherever necessary, painting embedding in C.M pillars. Complete with all lead, lift, loading & unloading charges, cost and conveyance of all materials, labour, equipments including all incidental charges etc., complete. as per the directions of the Engineer incharge of the work.	30.8000	Mtrs	320.70	9877.56
Providing & fixing of precast reinforced cement concrete manhole cover without frame including cost of transporting at site and all material etc. complete- 600mm dia extra heavy duty	2.0000	Each	1530.00	3060.00
Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate	23.7500	Cum	4755.00	112931.25

**Item Requirement Task Wise**

<b>Particulars</b>	<b>Est. Qty</b>	<b>Unit</b>	<b>Est. Price</b>	<b>Est. Cost</b>
Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-25 (Nominal Mix) with 20 mm maximum size of stone aggregate	<b>23.7500</b>	Cum	<b>5647.00</b>	<b>134116.25</b>
Providing and laying Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Base Slab	<b>100.0500</b>	Cum	<b>6351.00</b>	<b>635417.55</b>
Providing and laying Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Corridor Slab	<b>3.2000</b>	Cum	<b>6351.00</b>	<b>20323.20</b>
Providing and laying Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Lintels	<b>0.1800</b>	Cum	<b>6351.00</b>	<b>1143.18</b>
Providing and laying Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Pump House	<b>21.7700</b>	Cum	<b>6595.00</b>	<b>143573.15</b>
Providing and laying Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Side Walls - 0 m to 5 m	<b>223.8700</b>	Cum	<b>6106.00</b>	<b>1366950.22</b>
Providing and laying Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Side Walls - 11 m to 15 m	<b>173.4400</b>	Cum	<b>6595.00</b>	<b>1143836.80</b>
Providing and laying Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Side Walls - 16 m to 20 m	<b>149.2800</b>	Cum	<b>6595.00</b>	<b>984501.60</b>
Providing and laying Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Side Walls - 21 m to 25 m	<b>125.8400</b>	Cum	<b>6596.00</b>	<b>830040.64</b>
Providing and laying Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Side Walls - 26 m to 30 m	<b>103.1000</b>	Cum	<b>6597.00</b>	<b>680150.70</b>
Providing and laying Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Side Walls - 51 m to 55 m	<b>0.0000</b>	Cum	<b>0.00</b>	<b>0.00</b>

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing and laying Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Side Walls - 6 m to 10 m	198.3000	Cum	6351.00	1259403.30
Providing and laying Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Top Slab	7.0900	Cum	6351.00	45028.59
Providing and supply of Cast Iron Sluice Gate Square type as per IS-13349 duly tested inclusive of all taxes related to central, state and municipal, inclusive of excise duty, inspection charges, transportation charges, transit insurance, loading/ unloading and stacking at site/ store etc, complete. Sluice Gate Square type as per IS 13349, Size 500 X 500 mm. Cast Iron Wall Thimble mounted, Manually operated, CL-PL : 5.50 Meter, Class - I, Flush Bottom Closure	3.0000	Each	168500.00	505500.00
Providing, laying, jointing & testing of socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-7) with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint - 500 mm DI Pipe	50.0000	Each	5173.00	258650.00
Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding upto floor level including cost of binding wire, wastage and over laps upto 12mm horizontal/ inclined position of reinforcement bars in slab and beams, plinth, chajjas, lintels, upto 4.5m vertical length of reinforcement in wall columns (over laps shall be provided as per requirement of IS:13920; IS456&SP:34) etc. complete.	121700.0000	Kgs	57.00	6936900.00
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:	7039.0000	Kgs	69.00	485691.00
Sub mains in surface rigid steel conduit in copper conductor wiring for sub mains with PVC insulated cable FR with copper multistrand conductor ISI marked in surface rigid steel marked conduit of suitable size including connection painting etc ,as required as per specification - 3 wire sub main (4.0sq.mm cable in 20 mm conduit)	80.0000	Mtrs	243.00	19440.00
Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.	321.4300	Cum	478.00	153643.54
supplying of approved make TPN MCB DB metal double door with provision for FP MCB/Isolated/RCCB/RCBO as incomer and SP MCBs as outgoing inclusive of Busbar ,Neutral bar,Earth bar & two earth terminal etc complete as per IS:13032(exclusive of MCB & isolated) - 6 way (4+18)	1.0000	Each	1530.00	1530.00

## Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
supplying,fixing and testing of approved make fluorescent tube fitting 36/40 watt,rust resistant,stone enamelled paint,box type channel with cover, complete with electronic ballast (HF) complete duly wired (without tube rod ) as per specification &fixing as below Fixing on wall/ceiling on wooden round block with 'J' hook /anchor hole fastners /holoow bow with rod fixing in ceilling and other necessary materials including connection etc and as required	6.0000	Each	666.00	3996.00
Supplying,fixing and testing of approved make of low watt surface /recessed mounting CFL down lighter luminaire with white powder coated aluminium cover with anodised aluminium reflector with necessary materials connection etc.complete as required(withou lamp)-CFL 1x10/13/18/awtt	2.0000	Each	858.00	1716.00
Wiring in surface rigid steel conduit system with Flush Type Accessories. Point wiring including metallic switch box, sheet, switche, socket, lamp holders/ceiling roses etc. with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in surface rigid steel conduit ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit including painting, etc. as required as per specification for :- (a)Light point/fan point (medium point)	11.0000	Each	820.00	9020.00
Wiring in surface rigid steel conduit system with Flush Type Accessories. Point wiring including metallic switch box, sheet, switche, socket, lamp holders/ceiling roses etc. with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in surface rigid steel conduit ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit including painting, etc. as required as per specification for :- (b)3Pin 6 Amp socket outlet on separate board(medium point)	5.0000	Each	820.00	4100.00
Wiring in surface rigid steel conduit system with Flush Type Accessories. Point wiring including metallic switch box, sheet, switche, socket, lamp holders/ceiling roses etc. with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in surface rigid steel conduit ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit including painting, etc. as required as per specification for :- (c)on separate board (long point)	4.0000	Each	1297.00	5188.00
<b>Total Estimate</b>				<b>18390412.13</b>
<b>Construction of Foot Over Bridge of Length 200 m of Width 5.0m for Approach to Intakewell</b>				
Applying one coat of cement primer of approved brand and manufacture on wall surface :	8476.8000	Sqm	32.00	271257.60

## Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Construction of precast RCC railing of M30 Grade (mixed in concrete mixture), aggregate size not exceeding 12 mm, true to line and grade, tolerance of vertical post not to exceed 2000 mm, leaving adequate space between vertical post for expansion, complete as per approved drawings and technical specification and as per relevant clauses of sections 1500, 1600, 1700 and clause 2703 of specifications (as per MoST specification drawing SD/202 or SD/305)	400.0000	Rmt	1585.00	634000.00
Earth work in excavation for foundation, trenches for manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kinds of soil	1248.8900	Cum	151.00	188582.39
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means(exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. - For Hard Rock ( requiring blasting)	288.2100	Cum	559.00	161109.39
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. Ordinary rock	384.2700	Cum	261.00	100294.47
Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. - At 1mt Depth Below Water Level	113.1800	Cum	270.00	30558.60
Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. - At 2mt Depth Below Water Level	16.3200	Cum	334.00	5450.88
Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. - At 3mt Depth Below Water Level	16.3200	Cum	398.00	6495.36
Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. - At 4mt Depth Below Water Level	16.3200	Cum	462.00	7539.84
Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. - At 5mt Depth Below Water Level	16.3200	Cum	526.00	8584.32
Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. - At 6mt Depth Below Water Level	395.9400	Cum	590.00	233604.60
Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including base coat of water proofing cement paint applied @ 2.20kg/10 sqm.	8476.8000	Sqm	146.00	1237612.80

## Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing and Laying plain/ Reinforcement cement concrete in super structure ring beam Dom, walls, beam etc section including cost of form work staging/bracing and shuttering complete as per drawing and technical specification and as per relevant clauses of I.S. Standard. - RCC Grade M 30 - Beam at foundation	45.9000	Cum	6351.00	291510.90
Providing and Laying plain/ Reinforcement cement concrete in super structure ring beam Dom, walls, beam etc section including cost of form work staging/bracing and shuttering complete as per drawing and technical specification and as per relevant clauses of I.S. Standard. - RCC Grade M 30 - Beams - CS BRACE BEAMS Cross beams - 0-5 mts Height	40.1600	Cum	6106.00	245216.96
Providing and Laying plain/ Reinforcement cement concrete in super structure ring beam Dom, walls, beam etc section including cost of form work staging/bracing and shuttering complete as per drawing and technical specification and as per relevant clauses of I.S. Standard. - RCC Grade M 30 - Beams - CS BRACE BEAMS Cross beams - 5-10 mts Height	80.3300	Cum	6351.00	510175.83
Providing and Laying plain/ Reinforcement cement concrete in super structure ring beam Dom, walls, beam etc section including cost of form work staging/bracing and shuttering complete as per drawing and technical specification and as per relevant clauses of I.S. Standard. - RCC Grade M 30 - Beams - CS BRACE BEAMS Cross beams - Above 10 mts Height	80.3300	Cum	6595.00	529776.35
Providing and Laying plain/ Reinforcement cement concrete in super structure ring beam Dom, walls, beam etc section including cost of form work staging/bracing and shuttering complete as per drawing and technical specification and as per relevant clauses of I.S. Standard. - RCC Grade M 30 - Beams - Top beam	39.3800	Cum	6595.00	259711.10
Providing and Laying plain/ Reinforcement cement concrete in super structure ring beam Dom, walls, beam etc section including cost of form work staging/bracing and shuttering complete as per drawing and technical specification and as per relevant clauses of I.S. Standard. - RCC Grade M 30 - Coloums Above GL - 0-5 mts Height	81.6000	Cum	6106.00	498249.60
Providing and Laying plain/ Reinforcement cement concrete in super structure ring beam Dom, walls, beam etc section including cost of form work staging/bracing and shuttering complete as per drawing and technical specification and as per relevant clauses of I.S. Standard. - RCC Grade M 30 - Coloums Above GL - 5-10 mts Height	81.6000	Cum	6351.00	518241.60
Providing and Laying plain/ Reinforcement cement concrete in super structure ring beam Dom, walls, beam etc section including cost of form work staging/bracing and shuttering complete as per drawing and technical specification and as per relevant clauses of I.S. Standard. - RCC Grade M 30 - Coloums Above GL - Above 10 mts Height	97.9200	Cum	6595.00	645782.40



**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing and Laying plain/ Reinforcement cement concrete in super structure ring beam Dom, walls, beam etc section including cost of form work staging/bracing and shuttering complete as per drawing and technical specification and as per relevant clauses of I.S. Standard. - RCC Grade M 30 - Coloums Upto GL	26.1100	Cum	6351.00	165824.61
Providing and Laying plain/ Reinforcement cement concrete in super structure ring beam Dom, walls, beam etc section including cost of form work staging/bracing and shuttering complete as per drawing and technical specification and as per relevant clauses of I.S. Standard. - RCC Grade M 30 - Longitudinal beams - 0-5 mts Height	56.7000	Cum	6106.00	346210.20
Providing and Laying plain/ Reinforcement cement concrete in super structure ring beam Dom, walls, beam etc section including cost of form work staging/bracing and shuttering complete as per drawing and technical specification and as per relevant clauses of I.S. Standard. - RCC Grade M 30 - Longitudinal beams - 5-10 mts Height	113.4000	Cum	6351.00	720203.40
Providing and Laying plain/ Reinforcement cement concrete in super structure ring beam Dom, walls, beam etc section including cost of form work staging/bracing and shuttering complete as per drawing and technical specification and as per relevant clauses of I.S. Standard. - RCC Grade M 30 - Longitudinal beams - Above 10 mts Height	113.4000	Cum	6595.00	747873.00
Providing and Laying plain/ Reinforcement cement concrete in super structure ring beam Dom, walls, beam etc section including cost of form work staging/bracing and shuttering complete as per drawing and technical specification and as per relevant clauses of I.S. Standard. - RCC Grade M 30 - Longitudinal beams - Kerb beam	21.1600	Cum	6351.00	134387.16
Providing and Laying plain/ Reinforcement cement concrete in super structure ring beam Dom, walls, beam etc section including cost of form work staging/bracing and shuttering complete as per drawing and technical specification and as per relevant clauses of I.S. Standard. - RCC Grade M 30 - Longitudinal beams - Slab	200.0000	Cum	6351.00	1270200.00
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 concrete laying, cost of centering, shuttering, finishing and 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-20 grade design mix reinforced cement concrete by using 405 kg. of cement per cum of concrete. All work up to plinth level excluding the cost of reinforcement. - RCC Grade M20 - Footing	239.1900	Cum	5435.00	1299997.65
Providing & laying mechanically mixed cement concrete 20mm maximum size graded crushed stone including cost of centering & shuttering. - M-10	110.8500	Cum	4219.00	467676.15

## Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding upto floor level including cost of binding wire, wastage and over laps upto 12mm horizontal/inclined position of reinforcement bars in slab and beams, plinth, chajjas, lintels, upto 4.5m vertical length of reinforcement in wall columns (over laps shall be provided as per requirement of IS : 13920; IS 456 & SP : 34) etc. complete.	144900.0000	Kgs	57.00	8259300.00
<b>Total Estimate</b>				<b>19795427.16</b>
<b>Construction of 7 Nos Sumps of capacity 50KL to 300 KL</b>				
Clear water Sump at IPS-1	300.0000	KL	5820.48	1746144.00
Clear water Sump at IPS-2	100.0000	KL	8307.29	830729.00
Clear water Sump at IPS-3	150.0000	KL	7245.07	1086760.50
Individual Sump-OHSR-10	50.0000	KL	10916.00	545800.00
Individual Sump-OHSR-23	50.0000	KL	10916.00	545800.00
Individual Sump-OHSR-29	50.0000	KL	10916.00	545800.00
Individual Sump-OHSR-9	50.0000	KL	10916.00	545800.00
Provision of Compound Wall	1.0000	KL	4397050.00	4397050.00
<b>Total Estimate</b>				<b>10243883.50</b>
<b>Raw water pumping main of 400 mm internal dia.DI K9 Pipe line with in lining and out coating of length 6182 m suitable for water demand of 12.00 mld (20 hours) from intake to WTP.</b>				
Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in charge.	22.5000	Cum	786.00	17685.00
Dismantling of flexible pavements and disposal of dismantled materials upto a lead of 1000meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.- Bituminous courses	55.8000	Cum	420.00	23436.00
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means(exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. - For Hard Rock (requiring blasting)	939.6600	Cum	405.00	380562.30
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed - Ordinary rock	1384.7700	Cum	261.00	361424.97

## Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. - All kinds of soil	4846.6900	Cum	151.00	731850.19
Extra for every additional lift of 1.5 m or part thereof in. All kinds of soils	494.5600	Cum	66.00	32640.96
Filling available excavated earth in trenches, plinth sites of foundation in layers not exceeding 20cm in depth including consolidation of each layer by ramming, watering, lead upto 50m and lift upto 1.5m in all kinds of soil.	4945.6000	Cum	89.00	440158.40
Providing & Laying Ductile Iron Double Socket 22.5° Bends conforming to IS-9523/2000 having dimension as per table 17 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conformi - 400 mm Dia Pipe	9.0000	Each	6958.00	62622.00
Providing & Laying Ductile Iron Double Socket 45° Bends conforming to IS-9523/2000 having dimension as per table 16 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conforming - 400 mm Dia Pipe	8.0000	Each	8434.00	67472.00
Providing & Laying Ductile Iron Double Socket 90° Bends conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conforming - 400 mm Dia Pipe	8.0000	Each	11697.00	93576.00
Providing & Laying Ductile Iron Double Socket 11.25° bends conforming to IS-9523/2000 having dimension as per table 18 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 400 mm Dia Pipe	11.0000	Each	6108.00	67188.00
Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate.	69.6000	Cum	4755.00	330948.00
Providing & fixing of following Ductile iron double flanged sluice valves glandless, resilient (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalent grade or of higher tensile strength grade, as per IS: 3896 part-II-1986 and subsequent revision, wedge fully rubber lined with EPDM food grade - 400 mm Dia Valve	4.0000	Each	101186.00	404744.00
Providing Valve Chamber including Cost of Material & Labour Etc to Complete the Item of the Work.	16.0000	Each	20694.00	331104.00

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing, laying and jointing socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-9) conforming to IS 8329/2000 with suitable Rubber Gasket (Push on) joints as per IS:12288/87 including testing of joint - 400 mm Dia Pipe	6182.0000	Mtrs	5883.00	36368706.00
Providing, fixing in position and jointing in pipe line DI Kinetic Double Air Valves of following dia (including jointing and jointing material), including all material, labour, testing and commissioning as per Technical Specifications..(P.N-1.6). - 150 mm Dia Valve	12.0000	Each	29500.00	354000.00
Providing, Laying & Jointing (i/c all jointing material) & testing of welded/Socketed double flanged centrifugal cast (spun) ductile Iron pressure pipes conforming to IS:8329/2000 in the length of 1m. for class K-9 with inside cement mortar lining for the sizes/dia pipes. - 150 mm Dia Pipe	12.0000	Mtrs	9106.00	109272.00
Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.	247.2800	Cum	478.00	118199.84
Supplying and filling in plinth under floors including,watering, ramming consolidating and dressing complete. Crusher Stone Dust	52.2000	Cum	687.00	35861.40
Thrust Block -400 mm Ø Pipes	8.0000	Nos	28910.00	231280.00
<b>Total Estimate</b>				<b>40562731.06</b>
<b>Providing, Laying, jointing, testing and commissioning Clear Water trunk Main from WTP to OHBR to OHT'S (295.82 Km)</b>				
Demolishing C.C./R.C.C. work by mechanical means including stacking of serviceable material and disposal of unserviceable material with in 50m, lead.	367.2500	Cum	786.00	288658.50
Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200. Bituminous courses	551.4200	Cum	420.00	231596.40
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed.. Ordinary rock	26513.2300	Cum	261.00	6919953.03
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. Hard rock (requiring blasting)	18972.7100	Cum	405.00	7683947.55
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. - All kinds of soil	149610.4400	Cum	151.00	22591176.44

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Extra for every additional lift of 1.5 m or part thereof in.in all kinds of soil.	16331.7400	Cum	66.00	1077894.84
Filling available excavated earth in trenches, plinth sites of foundation in layers not exceeding 20cm in depth including consolidation of each layer by ramming, watering, lead upto 50m and lift upto 1.5m in all kinds of soil.	163317.0000	Cum	89.00	14535213.00
National Highway crossings	9.0000	Nos	1155520.00	10399680.00
Providing & Laying Ductile Iron Double Socket 22.5° Bends conforming to IS-9523/2000 having dimension as per table 17 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 100 mm Dia Bend	135.0000	Each	682.00	92070.00
Providing & Laying Ductile Iron Double Socket 22.5° Bends conforming to IS-9523/2000 having dimension as per table 17 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 150 mm Dia Bend	99.0000	Each	1136.00	112464.00
Providing & Laying Ductile Iron Double Socket 22.5° Bends conforming to IS-9523/2000 having dimension as per table 17 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 200 mm Dia Bend	33.0000	Each	1745.00	57585.00
Providing & Laying Ductile Iron Double Socket 22.5° Bends conforming to IS-9523/2000 having dimension as per table 17 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 250 mm Dia Bend	29.0000	Each	2277.00	66033.00
Providing & Laying Ductile Iron Double Socket 22.5° Bends conforming to IS-9523/2000 having dimension as per table 17 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 300 mm Dia Bend	6.0000	Each	3186.00	19116.00
Providing & Laying Ductile Iron Double Socket 22.5° Bends conforming to IS-9523/2000 having dimension as per table 17 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 350 mm Dia Bend	8.0000	Each	5583.00	44664.00
Providing & Laying Ductile Iron Double Socket 22.5° Bends conforming to IS-9523/2000 having dimension as per table 17 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 400 mm Dia Bend	2.0000	Each	6958.00	13916.00
Providing & Laying Ductile Iron Double Socket 45° Bends conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conforming - 100 mm Dia Bend	107.0000	Each	758.00	81106.00
Providing & Laying Ductile Iron Double Socket 45° Bends conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conforming - 150 mm Dia Bend	78.0000	Each	1212.00	94536.00

## Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing & Laying Ductile Iron Double Socket 45° Bends conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conforming - 200 mm Dia Bend	26.0000	Each	1974.00	51324.00
Providing & Laying Ductile Iron Double Socket 45° Bends conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conforming - 250 mm Dia Bend	23.0000	Each	2654.00	61042.00
Providing & Laying Ductile Iron Double Socket 45° Bends conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conforming - 300 mm Dia Bend	5.0000	Each	3715.00	18575.00
Providing & Laying Ductile Iron Double Socket 45° Bends conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conforming - 350 mm Dia Bend	6.0000	Each	6741.00	40446.00
Providing & Laying Ductile Iron Double Socket 45° Bends conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conforming - 400 mm Dia Bend	1.0000	Each	8434.00	8434.00
Providing & Laying Ductile Iron Double Socket 11.25° bends conforming to IS-9523/2000 having dimension as per table 18 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 100 mm Dia Bend	172.0000	Each	682.00	117304.00
Providing & Laying Ductile Iron Double Socket 11.25° bends conforming to IS-9523/2000 having dimension as per table 18 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 150 mm Dia Bend	125.0000	Each	1060.00	132500.00
Providing & Laying Ductile Iron Double Socket 11.25° bends conforming to IS-9523/2000 having dimension as per table 18 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 200 mm Dia Bend	41.0000	Each	1591.00	65231.00
Providing & Laying Ductile Iron Double Socket 11.25° bends conforming to IS-9523/2000 having dimension as per table 18 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 250 mm Dia Bend	37.0000	Each	2125.00	78625.00
Providing & Laying Ductile Iron Double Socket 11.25° bends conforming to IS-9523/2000 having dimension as per table 18 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 300 mm Dia Bend	7.0000	Each	2884.00	20188.00

**Item Requirement Task Wise**

<b>Particulars</b>	<b>Est. Qty</b>	<b>Unit</b>	<b>Est. Price</b>	<b>Est. Cost</b>
Providing & Laying Ductile Iron Double Socket 11.25° bends conforming to IS-9523/2000 having dimension as per table 18 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 350 mm Dia Bend	<b>10.0000</b>	Each	<b>4950.00</b>	<b>49500.00</b>
Providing & Laying Ductile Iron Double Socket 11.25° bends conforming to IS-9523/2000 having dimension as per table 18 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 400 mm Dia Bend	<b>2.0000</b>	Each	<b>6108.00</b>	<b>12216.00</b>
Providing & fixing of following Ductile iron double flanged sluice valves glandless, resilient (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalent grade or of higher tensile strength grade, as per IS: 3896 part-II-1986 and subsequent revision, wedge fully rubber lined with EPDM food grade quality and seals of NBR. The valve should be with replaceable nut and replaceable sliding shoes, valve stems shall be of single piece thread rolled. Sluice valve shall be compatible for buried applications without valve chambers. The valve should be vacuum tight and 100% leakproof with face to face dimensions as BS: 5163-89/ IS: 14846/2000/DIN 3204 F4 and flange connections as per IS:1538. Valve should be with electrostatic powder coating both inside and outside (thickness 250 micron)with pocketless straight thro body passage including jointing and testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete. Class PN1.6 - 100 mm Sluice Valve	<b>37.0000</b>	Each	<b>8386.00</b>	<b>310282.00</b>
Providing & fixing of following Ductile iron double flanged sluice valves glandless, resilient (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalent grade or of higher tensile strength grade, as per IS: 3896 part-II-1986 and subsequent revision, wedge fully rubber lined with EPDM food grade quality and seals of NBR. The valve should be with replaceable nut and replaceable sliding shoes, valve stems shall be of single piece thread rolled. Sluice valve shall be compatible for buried applications without valve chambers. The valve should be vacuum tight and 100% leakproof with face to face dimensions as BS: 5163-89/ IS: 14846/2000/DIN 3204 F4 and flange connections as per IS:1538. Valve should be with electrostatic powder coating both inside and outside (thickness 250 micron)with pocketless straight thro body passage including jointing and testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete. Class PN1.6 - 150 mm Sluice Valve	<b>27.0000</b>	Each	<b>14379.00</b>	<b>388233.00</b>

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing & fixing of following Ductile iron double flanged sluice valves glandless, resilient (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SIGI 400/12 or equivalent grade or of higher tensile strength grade, as per IS: 3896 part-II-1986 and subsequent revision, wedge fully rubber lined with EPDM food grade quality and seals of NBR. The valve should be with replaceable nut and replaceable sliding shoes, valve stems shall be of single piece thread rolled. Sluice valve shall be suitable for buried applications without valve chambers. The valve should be vacuum tight and 100% leakproof with face to face dimensions as BS: 5163-89/ IS: 14846/2000/DIN 3204 F4 and flange connections as per IS:1538. Valve should be with electrostatic powder coating both inside and outside (thickness 250 micron)with pocketless straight thro body passage including jointing and testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete. Class PN1.6 - 200 mm Sluice Valve	9.0000	Each	21385.00	192465.00
Providing & fixing of following Ductile iron double flanged sluice valves glandless, resilient (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SIGI 400/12 or equivalent grade or of higher tensile strength grade, as per IS: 3896 part-II-1986 and subsequent revision, wedge fully rubber lined with EPDM food grade quality and seals of NBR. The valve should be with replaceable nut and replaceable sliding shoes, valve stems shall be of single piece thread rolled. Sluice valve shall be suitable for buried applications without valve chambers. The valve should be vacuum tight and 100% leakproof with face to face dimensions as BS: 5163-89/ IS: 14846/2000/DIN 3204 F4 and flange connections as per IS:1538. Valve should be with electrostatic powder coating both inside and outside (thickness 250 micron)with pocketless straight thro body passage including jointing and testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete. Class PN1.6 - 250 mm Sluice Valve	8.0000	Each	35229.00	281832.00
Providing & fixing of following Ductile iron double flanged sluice valves glandless, resilient (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SIGI 400/12 or equivalent grade or of higher tensile strength grade, as per IS: 3896 part-II-1986 and subsequent revision, wedge fully rubber lined with EPDM food grade quality and seals of NBR. The valve should be with replaceable nut and replaceable sliding shoes, valve stems shall be of single piece thread rolled. Sluice valve shall be suitable for buried applications without valve chambers. The valve should be vacuum tight and 100% leakproof with face to face dimensions as BS: 5163-89/ IS: 14846/2000/DIN 3204 F4 and flange connections as per IS:1538. Valve should be with electrostatic powder coating both inside and outside (thickness 250 micron)with pocketless straight thro body passage including jointing and testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete. Class PN1.6 - 300 mm Sluice Valve	2.0000	Each	45616.00	91232.00



**Item Requirement Task Wise**

<b>Particulars</b>	<b>Est. Qty</b>	<b>Unit</b>	<b>Est. Price</b>	<b>Est. Cost</b>
Providing & fixing of following Ductile iron double flanged sluice valves glandless, resilient (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalent grade or of higher tensile strength grade, as per IS: 3896 part-II-1986 and subsequent revision, wedge fully rubber lined with EPDM food grade quality and seals of NBR. The valve should be with replaceable nut and replaceable sliding shoes, valve stems shall be of single piece thread rolled. Sluice valve shall be compatible for buried applications without valve chambers. The valve should be vacuum tight and 100% leakproof with face to face dimensions as BS: 5163-89/ IS: 14846/2000/DIN 3204 F4 and flange connections as per IS:1538. Valve should be with electrostatic powder coating both inside and outside (thickness 250 micron)with pocketless straight thro body passage including jointing and testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete. Class PN1.6 - 350 mm Sluice Valve	<b>3.0000</b>	Each	<b>98599.00</b>	<b>295797.00</b>
Providing & fixing of following Ductile iron double flanged sluice valves glandless, resilient (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalent grade or of higher tensile strength grade, as per IS: 3896 part-II-1986 and subsequent revision, wedge fully rubber lined with EPDM food grade quality and seals of NBR. The valve should be with replaceable nut and replaceable sliding shoes, valve stems shall be of single piece thread rolled. Sluice valve shall be compatible for buried applications without valve chambers. The valve should be vacuum tight and 100% leakproof with face to face dimensions as BS: 5163-89/ IS: 14846/2000/DIN 3204 F4 and flange connections as per IS:1538. Valve should be with electrostatic powder coating both inside and outside (thickness 250 micron)with pocketless straight thro body passage including jointing and testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete. Class PN1.6 - 400 mm Sluice Valve	<b>1.0000</b>	Each	<b>101186.00</b>	<b>101186.00</b>
Providing & Laying Ductile Iron Double Socket branch flange Tee conforming to IS-9523/2000 having dimension as per table 21 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000. (All sizes in mm) - PN16 - 100 X 80	<b>161.0000</b>	Each	<b>1425.00</b>	<b>229425.00</b>
Providing & Laying Ductile Iron Double Socket branch flange Tee conforming to IS-9523/2000 having dimension as per table 21 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000. (All sizes in mm) - PN16 - 150 X 80	<b>117.0000</b>	Each	<b>1996.00</b>	<b>233532.00</b>
Providing & Laying Ductile Iron Double Socket branch flange Tee conforming to IS-9523/2000 having dimension as per table 21 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000. (All sizes in mm) - PN16 - 200 X 80	<b>39.0000</b>	Each	<b>2756.00</b>	<b>107484.00</b>

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing & Laying Ductile Iron Double Socket branch flange Tee conforming to IS-9523/2000 having dimension as per table 21 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000. (All sizes in mm) - PN16 - 250 X 80	35.0000	Each	3516.00	123060.00
Providing & Laying Ductile Iron Double Socket branch flange Tee conforming to IS-9523/2000 having dimension as per table 21 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000. (All sizes in mm) - PN16 - 300 X 100	7.0000	Each	4754.00	33278.00
Providing & Laying Ductile Iron Double Socket branch flange Tee conforming to IS-9523/2000 having dimension as per table 21 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000. (All sizes in mm) - PN16 - 350 X 100	9.0000	Each	6152.00	55368.00
Providing & Laying Ductile Iron Double Socket branch flange Tee conforming to IS-9523/2000 having dimension as per table 21 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000. (All sizes in mm) - PN16 - 400 X 150	2.0000	Each	8356.00	16712.00
Providing and laying in position cast iron flanged spigot (tail piece) - Heavy Class - 100 mm Dia Tail Piece	322.0000	Each	1013.00	326186.00
Providing and laying in position cast iron flanged spigot (tail piece) - Heavy Class - 150 mm Dia Tail Piece	234.0000	Each	1664.00	389376.00
Providing and laying in position cast iron flanged spigot (tail piece) - Heavy Class - 200 mm Dia Tail Piece	78.0000	Each	2822.00	220116.00
Providing and laying in position cast iron flanged spigot (tail piece) - Heavy Class - 250 mm Dia Tail Piece	70.0000	Each	3835.00	268450.00
Providing and laying in position cast iron flanged spigot (tail piece) - Heavy Class - 300 mm Dia Tail Piece	14.0000	Each	4920.00	68880.00
Providing and laying in position cast iron flanged spigot (tail piece) - Heavy Class - 350 mm Dia Tail Piece	18.0000	Each	6591.00	118638.00
Providing and laying in position cast iron flanged spigot (tail piece) - Heavy Class - 400 mm Dia Tail Piece	4.0000	Each	8064.00	32256.00
Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate.	816.5900	Cum	4755.00	3882885.45
Providing Valve Chamber including Cost of Material & Labour Etc to Complete the Item of the Work. - 100 mm & 150mm Dia	342.0000	Each	15406.00	5268852.00
Providing Valve Chamber including Cost of Material & Labour Etc to Complete the Item of the Work. - 200 mm to 300mm Dia	100.0000	Each	18611.00	1861100.00
Providing Valve Chamber including Cost of Material & Labour Etc to Complete the Item of the Work. - 350 mm to 600mm Dia	15.0000	Each	20694.00	310410.00

## Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing, fixing in position and jointing in pipe line DI Kinetic Double Air Valves of following dia (including jointing and jointing material), including all material, labour, testing and commissioning as per Technical Specifications..(P.N-1.6). - 100 mm Dia Valve on 300 mm Pipe	7.0000	Each	13500.00	94500.00
Providing, fixing in position and jointing in pipe line DI Kinetic Double Air Valves of following dia (including jointing and jointing material), including all material, labour, testing and commissioning as per Technical Specifications..(P.N-1.6). - 150 mm Dia Valve on 350 mm Pipe	9.0000	Each	29500.00	265500.00
Providing, fixing in position and jointing in pipe line DI Kinetic Double Air Valves of following dia (including jointing and jointing material), including all material, labour, testing and commissioning as per Technical Specifications..(P.N-1.6). - 150 mm Dia Valve on 400 mm Pipe	2.0000	Each	29500.00	59000.00
Providing, fixing in position and jointing in pipe line DI Kinetic Double Air Valves of following dia (including jointing and jointing material), including all material, labour, testing and commissioning as per Technical Specifications..(P.N-1.6). - 50 mm Dia Valve on 100 mm Pipe	161.0000	Each	8220.00	1323420.00
Providing, fixing in position and jointing in pipe line DI Kinetic Double Air Valves of following dia (including jointing and jointing material), including all material, labour, testing and commissioning as per Technical Specifications..(P.N-1.6). - 50 mm Dia Valve on 150 mm Pipe	117.0000	Each	8220.00	961740.00
Providing, fixing in position and jointing in pipe line DI Kinetic Double Air Valves of following dia (including jointing and jointing material), including all material, labour, testing and commissioning as per Technical Specifications..(P.N-1.6). - 80 mm Dia Valve on 200 mm Pipe	39.0000	Each	9120.00	355680.00
Providing, fixing in position and jointing in pipe line DI Kinetic Double Air Valves of following dia (including jointing and jointing material), including all material, labour, testing and commissioning as per Technical Specifications..(P.N-1.6). - 80 mm Dia Valve on 250 mm Pipe	35.0000	Each	9120.00	319200.00
Providing, Laying & Testing Ductile Iron Double Socket 90° Bends conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 100 mm Dia Bend	51.0000	Each	834.00	42534.00
Providing, Laying & Testing Ductile Iron Double Socket 90° Bends conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 150 mm Dia Bend	37.0000	Each	1515.00	56055.00
Providing, Laying & Testing Ductile Iron Double Socket 90° Bends conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 200 mm Dia Bend	12.0000	Each	2425.00	29100.00
Providing, Laying & Testing Ductile Iron Double Socket 90° Bends conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 250 mm Dia Bend	11.0000	Each	3415.00	37565.00

## Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing, Laying & Testing Ductile Iron Double Socket 90° Bends conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 300 mm Dia Bend	2.0000	Each	4932.00	9864.00
Providing, Laying & Testing Ductile Iron Double Socket 90° Bends conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 350 mm Dia Bend	3.0000	Each	9064.00	27192.00
Providing, Laying & Testing Ductile Iron Double Socket 90° Bends conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. - 400 mm Dia Bend	1.0000	Each	11697.00	11697.00
Providing, laying, jointing & testing of socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-7) with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint - 100 mm DI-K7	66312.0000	Mtrs	1074.00	71219088.00
Providing, laying, jointing & testing of socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-7) with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint - 150 mm DI-K7	57972.0000	Mtrs	1573.00	91189956.00
Providing, laying, jointing & testing of socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-7) with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint - 200 mm DI-K7	20324.0000	Mtrs	2007.00	40790268.00
Providing, laying, jointing & testing of socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-7) with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint - 250 mm DI-K7	27663.0000	Mtrs	2628.00	72698364.00
Providing, laying, jointing & testing of socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-7) with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint - 300 mm DI-K7	4733.0000	Mtrs	3319.00	15708827.00
Providing, laying, jointing & testing of socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-7) with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint - 350 mm DI-K7	7533.0000	Mtrs	4147.00	31239351.00
Providing, laying, jointing & testing of socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-7) with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint - 400 mm DI-K7	1704.0000	Mtrs	5173.00	8814792.00
Providing, laying, jointing & testing of socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-9) with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint. - 100 mm DI-K9	62324.0000	Mtrs	1179.00	73479996.00

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing, laying, jointing & testing of socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-9) with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint. - 150 mm DI-K9	35675.0000	Mtrs	1734.00	61860450.00
Providing, laying, jointing & testing of socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-9) with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint. - 200 mm DI-K9	10719.0000	Mtrs	2319.00	24857361.00
Providing, laying, jointing & testing of socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-9) with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint. - 300 mm DI-K9	801.0000	Mtrs	3920.00	3139920.00
Railway crossings	1.0000	Nos	1839920.00	1839920.00
strem/canal Crosing - 10 M	12.0000	Nos	129600.00	1555200.00
strem/canal Crosing - 15 M	16.0000	Nos	144900.00	2318400.00
strem/canal Crosing - 20 M	9.0000	Nos	201000.00	1809000.00
strem/canal Crosing - 25 M	4.0000	Nos	305200.00	1220800.00
strem/canal Crosing - 30 M	6.0000	Nos	366400.00	2198400.00
strem/canal Crosing - 35 M	5.0000	Nos	446200.00	2231000.00
strem/canal Crosing - 40 M	3.0000	Nos	488100.00	1464300.00
Supplying and filling in plinth under floors including,watering,ramming consolidating and dressing complete. Moorum/Hard copra	5716.1100	Cum	478.00	2732300.58
Supplying and filling in plinth under floors including,watering, ramming consolidating and dressing complete. Crusher Stone Dust	612.4400	Cum	687.00	420746.28
Thrust Block -100 mm Ø Pipes	51.0000	Nos	710.00	36210.00
Thrust Block -150 mm Ø Pipes	37.0000	Nos	1630.00	60310.00
Thrust Block -200 mm Ø Pipes	12.0000	Nos	3240.00	38880.00
Thrust Block -250 mm Ø Pipes	11.0000	Nos	6100.00	67100.00
Thrust Block -300 mm Ø Pipes	2.0000	Nos	11870.00	23740.00
Thrust Block -350 mm Ø Pipes	3.0000	Nos	22030.00	66090.00
Thrust Block -400 mm Ø Pipes	1.0000	Nos	28910.00	28910.00
<b>Total Estimate</b>				<b>596874757.07</b>
<b>Providing,Laying, jointing, testing and commissioning of 90mm, 110 mm,160mm,200mm diameter HDPE PE100 Grade PN 6 Class pipes - Distribution System of Length 124.245 KM</b>				
Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in charge.	4701.1100	Cum	786.00	3695072.46

## Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200. Bituminous courses	731.8600	Cum	420.00	307381.20
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kinds of soil Ordinary rock.	25649.0900	Cum	261.00	6694412.49
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means /manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kinds of soil.	47634.0200	Cum	151.00	7192737.02
Providign & laying Bend 450 confirming to IS Specifications - 110 mm Ø HDPE 6 kg/CM2	23.0000	Each	337.00	7751.00
Providign & laying Bend 450 confirming to IS Specifications - 160 mm Ø HDPE 6 kg/CM2	21.0000	Each	970.00	20370.00
Providign & laying Bend 450 confirming to IS Specifications - 200 mm Ø HDPE 6 kg/CM2	1.0000	Each	1712.00	1712.00
Providign & laying Bend 450 confirming to IS Specifications - 90 mm Ø HDPE 6 kg/CM2	146.0000	Each	242.00	35332.00
Providign & laying End Cap confirming to IS Specifications - 90 mm	951.0000	Each	132.00	125532.00
Providign,laying ,jointing & field testing of high density polyethylene pipes(HDPE) confirming to IS 4984/14151/12786/13488 with necessary jointing material like mechanical connector or jointing pipe by heating to the ends of pipe with the help of Teflon coated electric mirror / heater to the required tempreture & then pressing the ends together each other to form a monolithic & leak proof joint by thermosetting process.It may be required to be done with jacke/Hydraulic jacks / But fusion machine .( 50 mm & above fusion jointed & below 50 mm mechanical jointed ) - 110 mm Ø HDPE 6 kg/CM2	15141.0000	Rmt	354.00	5359914.00
Providign,laying ,jointing & field testing of high density polyethylene pipes(HDPE) confirming to IS 4984/14151/12786/13488 with necessary jointing material like mechanical connector or jointing pipe by heating to the ends of pipe with the help of Teflon coated electric mirror / heater to the required tempreture & then pressing the ends together each other to form a monolithic & leak proof joint by thermosetting process.It may be required to be done with jacke/Hydraulic jacks / But fusion machine .( 50 mm & above fusion jointed & below 50 mm mechanical jointed ) - 160 mm Ø HDPE 6 kg/CM2	13720.0000	Rmt	743.00	10193960.00

## Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing, laying, jointing & field testing of high density polyethylene pipes (HDPE) confirming to IS 4984/14151/12786/13488 with necessary jointing material like mechanical connector or jointing pipe by heating to the ends of pipe with the help of Teflon coated electric mirror / heater to the required temperature & then pressing the ends together each other to form a monolithic & leak proof joint by thermosetting process. It may be required to be done with jacks/Hydraulic jacks / But fusion machine. ( 50 mm & above fusion jointed & below 50 mm mechanical jointed ) - 200 mm Ø HDPE 6 kg/CM2	247.0000	Rmt	1151.00	284297.00
Providing, laying, jointing & field testing of high density polyethylene pipes (HDPE) confirming to IS 4984/14151/12786/13488 with necessary jointing material like mechanical connector or jointing pipe by heating to the ends of pipe with the help of Teflon coated electric mirror / heater to the required temperature & then pressing the ends together each other to form a monolithic & leak proof joint by thermosetting process. It may be required to be done with jacks/Hydraulic jacks / But fusion machine. ( 50 mm & above fusion jointed & below 50 mm mechanical jointed ) - 90 mm Ø HDPE 6 kg/CM2	95137.0000	Rmt	247.00	23498839.00
Providing and laying Equal Tee IS specification electrofusion - 110 mm Ø HDPE 6 kg/CM2	38.0000	Each	467.00	17746.00
Providing and laying Equal Tee IS specification electrofusion - 160 mm Ø HDPE 6 kg/CM2	34.0000	Each	1016.00	34544.00
Providing and laying Equal Tee IS specification electrofusion - 200 mm Ø HDPE 6 kg/CM2	1.0000	Each	1875.00	1875.00
Providing and laying Equal Tee IS specification electrofusion - 90 mm Ø HDPE 6 kg/CM2	238.0000	Each	334.00	79492.00
Providing and laying including testing Reducer: confirming to IS specifications. - 110 mm Ø HDPE 6 kg/CM2	38.0000	Each	157.00	5966.00
Providing and laying including testing Reducer: confirming to IS specifications. - 160 mm Ø HDPE 6 kg/CM2	34.0000	Each	257.00	8738.00
Providing and laying including testing Reducer: confirming to IS specifications. - 200 mm Ø HDPE 6 kg/CM2	1.0000	Each	342.00	342.00
Providing and laying including testing Reducer: confirming to IS specifications. - 90 mm Ø HDPE 6 kg/CM2	238.0000	Each	160.00	38080.00
Providing & Supply of Electro Fusion Fittings in accordance with BS EN 12201 : Part-3 suitable for drinking water with in black/blue color manufactured from compounded PE80/PE100 virgin polymer and compatible with PE80/PE100 pipes, in pressure rated SDR 11 with min PN 12.5 rated for water application and shall be inclusive of all cost such as testing, inspection charges, transportation up to site, transit insurance, loading, unloading, stacking etc. complete. Electro fusion Coupler - 110 mm Ø HDPE 6 kg/CM2	126.0000	Each	845.00	106470.00

**Item Requirement Task Wise**

<b>Particulars</b>	<b>Est. Qty</b>	<b>Unit</b>	<b>Est. Price</b>	<b>Est. Cost</b>
Providing & Supply of Electro Fusion Fittings in accordance with BS EN 12201 : Part-3 suitable for drinking water with in black/blue color manufactured from compounded PE80/PE100 virgin polymer and compatible with PE80/PE100 pipes, in pressure rated SDR 11 with min PN 12.5 rated for water application and shall be inclusive of all cost such as testing, inspection charges, transportation up to site, transit insurance, loading, unloading, stacking etc.complete.Electro fusion Coupler - 160 mm Ø HDPE 6 kg/CM2	<b>114.0000</b>	Each	<b>2025.00</b>	<b>230850.00</b>
Providing & Supply of Electro Fusion Fittings in accordance with BS EN 12201 : Part-3 suitable for drinking water with in black/blue color manufactured from compounded PE80/PE100 virgin polymer and compatible with PE80/PE100 pipes, in pressure rated SDR 11 with min PN 12.5 rated for water application and shall be inclusive of all cost such as testing, inspection charges, transportation up to site, transit insurance, loading, unloading, stacking etc.complete.Electro fusion Coupler - 200 mm Ø HDPE 6 kg/CM2	<b>2.0000</b>	Each	<b>3940.00</b>	<b>7880.00</b>
Providing & Supply of Electro Fusion Fittings in accordance with BS EN 12201 : Part-3 suitable for drinking water with in black/blue color manufactured from compounded PE80/PE100 virgin polymer and compatible with PE80/PE100 pipes, in pressure rated SDR 11 with min PN 12.5 rated for water application and shall be inclusive of all cost such as testing, inspection charges, transportation up to site, transit insurance, loading, unloading, stacking etc.complete.Electro fusion Coupler - 90 mm Ø HDPE 6 kg/CM2	<b>793.0000</b>	Each	<b>594.00</b>	<b>471042.00</b>
Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor two level, excluding the cost of centering, shuttering and finishing : Cement concrete grade M-25(NominalMix) 20mm maximum size of stone aggregate	<b>2414.6500</b>	Cum	<b>5886.00</b>	<b>14212629.90</b>
Providing and laying in position cast iron flanged spigot (tail piece) - Heavy Class - 100 mm dia	<b>368.0000</b>	Each	<b>1013.00</b>	<b>372784.00</b>
Providing and laying in position cast iron flanged spigot (tail piece) - Heavy Class - 150 mm dia	<b>46.0000</b>	Each	<b>1664.00</b>	<b>76544.00</b>
Providing and laying including testing specifications. - 110 mm Ø HDPE 6 kg/CM2 Bend 90O confirming to IS	<b>25.0000</b>	Each	<b>290.00</b>	<b>7250.00</b>
Providing and laying including testing specifications. - 160 mm Ø HDPE 6 kg/CM2 Bend 90O confirming to IS	<b>23.0000</b>	Each	<b>791.00</b>	<b>18193.00</b>
Providing and laying including testing specifications. - 200 mm Ø HDPE 6 kg/CM2 Bend 90O confirming to IS	<b>1.0000</b>	Each	<b>1437.00</b>	<b>1437.00</b>
Providing and laying including testing specifications. - 90 mm Ø HDPE 6 kg/CM2 Bend 90O confirming to IS	<b>159.0000</b>	Each	<b>229.00</b>	<b>36411.00</b>



**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing & fixing of following Ductile iron double flanged sluice valves as per IS:14846- 2000 fitted with cap including jointing & testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete. Non Rising Spindle (CLASS PN- 1.6) - 100 mm dia (PN - 1.6 )	184.0000	Each	11431.00	2103304.00
Providing & fixing of following Ductile iron double flanged sluice valves as per IS:14846- 2000 fitted with cap including jointing & testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete. Non Rising Spindle (CLASS PN- 1.6) - 150 mm dia (PN - 1.6 )	23.0000	Each	17071.00	392633.00
Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work upto plinth level.. Cement concrete grade M-10 (NominalMix) 20mm maximum size of stone aggregate	3621.9800	Cum	4219.00	15281133.62
Providing & fixing cast iron double air valves, flanged without in-built isolating valve as per IS : 14845-2000 including jointing & testing with cost of jointing material and rubber insertion all complete - 40 mm dia	158.0000	Each	868.00	137144.00
Providing & fixing cast iron double air valves, flanged without in-built isolating valve as per IS : 14845-2000 including jointing & testing with cost of jointing material and rubber insertion all complete - 50 mm dia	20.0000	Each	1013.00	20260.00
Providing Valve Chamber including Cost of Material & Labour Etc to Complete the Item of the Work. - 100 mm & 150mm Dia	385.0000	Each	15406.00	5931310.00
Spigot Long Neck Pipe End (Stub End) for Electro Fusion Joint - 110 mm Ø HDPE 6 kg/CM2	38.0000	Each	965.00	36670.00
Spigot Long Neck Pipe End (Stub End) for Electro Fusion Joint - 160 mm Ø HDPE 6 kg/CM2	34.0000	Each	2473.00	84082.00
Spigot Long Neck Pipe End (Stub End) for Electro Fusion Joint - 200 mm Ø HDPE 6 kg/CM2	1.0000	Each	3908.00	3908.00
Spigot Long Neck Pipe End (Stub End) for Electro Fusion Joint - 90 mm Ø HDPE 6 kg/CM2	238.0000	Each	633.00	150654.00
Supplying and filling in plinth under floors including,watering,ramming consolidating and dressing complete. Moorum/Hard copra	6503.3300	Cum	478.00	3108591.74
<b>Total Estimate</b>				<b>100395274.43</b>
<b>Design, Supply, Delivery, Erection, Testing, &amp; Commissioning Of Automation Components for Monitoring &amp; Maintainance with GPRS Communication with all necessary accessories. (SCADA)</b>				
Design, Supply, Erection & Commissioning of Reservoir Management System for water Treatment Plant - 12.0 MLD	1.0000	Job	1400000.00	1400000.00
Preparation of 3 sets of operation and maintenance manuals, including all hard wares, software's and communication system used in the telemetry scheme	1.0000	Nos	650000.00	650000.00
Supply and laying of all control ,instrumentation and communication cables required for establishing the SCADA system at HEADWORKS	1.0000	Nos	95500.00	95500.00

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Supply, Installation and Commissioning of PC Server, Central Water Distribution Monitoring and Control software, Database, SCADA software, Automatic Report Generation software, with 22 Inch Monitor-1no, 32Inch LCD monitor -2nos, Colour Laser Jet Printer-1no, and control desk furniture at HEAD WORKS along with two years valid broadband connection.	1.0000	Nos	4529857.00	4529857.00
Supply, testing testing and commissioning of Wireless RF communication system + Antenna accessories and GSM-GPRS communication system at HEADWORKS collector wells, MPS & with unlimited GPRS enabled ,two years valid	1.0000	Nos	46900.00	46900.00
Supply, installation and commissioning of PC- Client System, water distribution monitoring software, 22inch monitor and 4 Hours UPS back- up, Monochrome Laser Printer-1no for the Zonal Offices at 4 locations and at corporation head office along with two years valid broadband	1.0000	Nos	1276731.00	1276731.00
Supply, testing and commissioning of Ultrasonic Level Sensor And Transmitters with accessories at HEADWORKS	1.0000	Nos	123567.00	123567.00
Supply, testing and commissioning of Ultrasonic Level Sensor And Transmitters with accessories at OHT's	54.0000	Nos	200000.00	10800000.00
Supply, testing and commissioning of Ultrasonic Level Sensor And Transmitters with accessories at Sump's	3.0000	Nos	200000.00	600000.00
Supply, testing and commissioning of Magnetic Flow Sensor and transmitters with accessories at Sumps	3.0000	Nos	32500.00	97500.00
Supply, testing and commissioning of Magnetic Flow Sensor and transmitters with accessories at HEADWORKS	1.0000	Nos	487209.00	487209.00
Supply, testing and commissioning of Magnetic Flow Sensor and transmitters with accessories at OHT's	54.0000	Nos	32000.00	1728000.00
Supply, erection, testing and commissioning of Communicable Energy Meters with accessories HEADWORKS	1.0000	Nos	23425.00	23425.00
Supply, erection, testing and commissioning of Pressure sensor and Transmitters with accessories at HEADWORKS	1.0000	Nos	65708.00	65708.00
Supply, erection, testing and commissioning of Pressure sensor and Transmitters with accessories at OHT's	54.0000	Nos	65000.00	3510000.00
Supply, erection, testing and commissioning of Pressure sensor and Transmitters with accessories at Sump's	3.0000	Nos	65000.00	195000.00
Supply, erection, testing and commissioning of RTU/PLC panel with adequate number of analogue/digital I/O's plus 20% spare I/O's, battery power back-up, built-in panel humidity and temperature monitoring, 5.7inch LCD display Unit for the HEAD WORKS and application software.	2.0000	Nos	476928.00	953856.00
Supply, erection, testing and commissioning of Chlorine Sensor and transmitters with accessories at HEADWORKS	1.0000	Nos	265000.00	265000.00

## Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Supply, erection, testing and commissioning of pH Sensor and transmitters with accessories at HEADWORKS	1.0000	Nos	265000.00	265000.00
UPS suitable for the server, LCD monitors and other server room equipments with 4 hours battery back-up	1.0000	Nos	108191.00	108191.00
<b>Total Estimate</b>				<b>39821444.00</b>
<b>Construction of Master balancing Reservoir Capacities 300KL-25m, 250KL-25m Stg &amp; 150 KL with staging 25 m.</b>				
Designing (structurally & aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling & disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design, Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface & anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. - OHMBR-1	250.0000	KL	11923.78	2980945.00
Designing (structurally & aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling & disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design, Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface & anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. - OHMBR-2	300.0000	KL	11088.14	3326442.00

**Item Requirement Task Wise**

<b>Particulars</b>	<b>Est. Qty</b>	<b>Unit</b>	<b>Est. Price</b>	<b>Est. Cost</b>
Designing (structurally & aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling & disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface & anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. - OHMBR-3	150.0000	KL	15100.00	2265000.00
ESR Management System & Designing, Supplying, Installing, Commissioning & testing of Flow Control Valve with level control / Pressure reducing valve/ Altitude Valve for inlet/ outlet with flow controlling, pressure controlling & monitoring on web and to the pipeline feeding to ESR/MBR/GSR with cable, PLC SCADA etc. complete. - Dia of Flow Meter - 200	1.0000	Each	206052.00	206052.00
ESR Management System & Designing, Supplying, Installing, Commissioning & testing of Flow Control Valve with level control / Pressure reducing valve/ Altitude Valve for inlet/ outlet with flow controlling, pressure controlling & monitoring on web and to the pipeline feeding to ESR/MBR/GSR with cable, PLC SCADA etc. complete. - Dia of Flow Meter - 300	1.0000	Each	323633.00	323633.00
ESR Management System & Designing, Supplying, Installing, Commissioning & testing of Flow Control Valve with level control / Pressure reducing valve/ Altitude Valve for inlet/ outlet with flow controlling, pressure controlling & monitoring on web and to the pipeline feeding to ESR/MBR/GSR with cable, PLC SCADA etc. complete. - Dia of Flow Meter - 350	1.0000	Each	411609.00	411609.00
Provision of Compound Wall for three OHBRs	1.0000	Job	2884070.00	2884070.00
<b>Total Estimate</b>				<b>12397751.00</b>
<b>Water treatment plant of 12.00 MLD Clear water capacity (20 hours) capacity including approach road etc complete.</b>				

## Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Designing (structurally, hydraulically & aesthetically), providing and constructing and commissioning Conventional Water Treatment Plant consisting of Civil Works, including cost of providing and applying Epoxy paint to inside surface of water retaining structures in contact with Chlorine and providing anti-termite treatment to entire structure below ground level, Mechanical and Electrical components of various sub-works as given below : including necessary hydraulic testing, structural testing, equipment testing and trial run for 3 months, etc. complete as directed by Engineer-in-charge . ( turn-key job ).	1.0000	Job	38900000.00	38900000.00
Provision made for Approach Road for WTP	1.0000	Job	1725528.00	1725528.00
Provision of Compound Wall around the WTP	1.0000	Job	3273670.00	3273670.00
Provsion of Staff Quarters at WTP Site - 8 No.s	1.0000	Job	6889248.00	6889248.00
<b>Total Estimate</b>				<b>50788446.00</b>
<b>Construction of Over Head Service Reservoirs 24 No.s of Different Capacities</b>				
Designing (structurally & aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling & disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface & anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Badegaon	150.0000	KL	10905.55	1635832.50

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Bhilai</p>	50.0000	KL	24110.38	1205519.00
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Bichhwa (Hardoli)</p>	50.0000	KL	24110.38	1205519.00

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Chichanda</p>	120.0000	KL	13759.35	1651122.00
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Chikhali Kalan</p>	100.0000	KL	15087.22	1508722.00

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Chilhati</p>	75.0000	KL	17057.89	1279341.75
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Chouthiya</p>	75.0000	KL	17057.89	1279341.75



**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Dahargaon</p>	75.0000	KL	17057.89	1279341.75
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Deori</p>	50.0000	KL	24110.38	1205519.00

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Divtiya</p>	75.0000	KL	17057.89	1279341.75
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Dob</p>	50.0000	KL	24110.38	1205519.00

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Dunai</p>	50.0000	KL	24110.38	1205519.00
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Ghatpipriya</p>	200.0000	KL	9586.01	1917202.00

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Harna Khedi</p>	50.0000	KL	24110.38	1205519.00
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Heti</p>	75.0000	KL	17057.89	1279341.75

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Hiwara</p>	50.0000	KL	24110.38	1205519.00
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Khambara</p>	50.0000	KL	24110.38	1205519.00

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Kharsali</p>	50.0000	KL	24110.38	1205519.00
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Pipriya</p>	100.0000	KL	15087.22	1508722.00

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Sanwari</p>	75.0000	KL	17057.89	1279341.75
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Sarra</p>	75.0000	KL	17057.89	1279341.75

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Semriya Pandri (Pand</p>	75.0000	KL	17057.89	1279341.75
<p>Designing (structurally &amp; aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling &amp; disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface &amp; anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Sukakhedi</p>	50.0000	KL	24110.38	1205519.00



## Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Designing (structurally & aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling & disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Stainless steel Ladder inside and MS ladder with GI railing outside, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing staircase from ground level to roof level, M.S. grill gate of 2 mtr. height with locking arrangement of approved design , Brick masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface & anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. Name/Location of OHSR - Yenas	75.0000	KL	17057.89	1279341.75
ESR Management System - 100	23.0000	Each	126717.00	2914491.00
ESR Management System - 150	1.0000	Each	163576.00	163576.00
Provision of Control Room of size (6m x 4m)	24.0000	Nos	405000.00	9720000.00
<b>Total Estimate</b>				<b>44588933.25</b>
<b>Supply, Errection, Commissioning and testing of Vertical Turbine Pumpsets at Intakewell - 2 No.s 200HP &amp; 2 No.s 100 HP (2 + 2 Stand by)</b>				
Designing, Supplying, Installing, Commissioning & testing of Flow Control Valve with level control / Pressure reducing valve/ Altitude Valve for inlet/ outlet with flow controlling, pressure controlling & monitoring on web and to the pipeline feeding to ESR/MBR/GSR with cable, PLC SCADA etc. complete. - 400 mm dia	1.0000	Each	536270.00	536270.00

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Electro mechanical components of Pumping Station having installed capacity up to = 75 kW with working load not exceeding 75 KW -Supply, installation, testing & commissioning of electro-mechanical equipments of water supply pumping system viz. pumping machinery (of following type & rating), valves (SV/BFV/DPCV), Suction-delivery-discharge header pipes & specials, expansion bellows, flow meter (fullbore electromagnetic - For size = 1400 mm) / ultrasonic - For size = 1500 mm), material handling system (motorised chain pulley block with geared travelling trolley), vacuum pumps with accessories or horizontal mono submersible (drain) pump with accessories including LV MCC - APFC panels, LT XLPE insulated Cu / Al armoured / PVC insulated round Copper submersible cables with tray & kits, earthing system, fire extinguisher, Exhaust Fan, safety accessories etc. as per specifications. including cost of erection and Overheads. Note:- Rates are inclusive of all equipments / accessories required for satisfactory & Successful execution of electromechanical system in water supply pumping system based on different type of pumping machinery but exclude cost of operation, maintenance & Repairs. - Discharging 4271 LPM against 146 Head -200HP	300.0000	KW	26500.00	7950000.00
Electro mechanical components of Pumping Station having installed capacity up to = 75 kW with working load not exceeding 75 KW -Supply, installation, testing & commissioning of electro-mechanical equipments of water supply pumping system viz. pumping machinery (of following type & rating), valves (SV/BFV/DPCV), Suction-delivery-discharge header pipes & specials, expansion bellows, flow meter (fullbore electromagnetic - For size = 1400 mm) / ultrasonic - For size = 1500 mm), material handling system (motorised chain pulley block with geared travelling trolley), vacuum pumps with accessories or horizontal mono submersible (drain) pump with accessories including LV MCC - APFC panels, LT XLPE insulated Cu / Al armoured / PVC insulated round Copper submersible cables with tray & kits, earthing system, fire extinguisher, Exhaust Fan, safety accessories etc. as per specifications. including cost of erection and Overheads. Note:- Rates are inclusive of all equipments / accessories required for satisfactory & Successful execution of electromechanical system in water supply pumping system based on different type of pumping machinery but exclude cost of operation, maintenance & Repairs. - Discharging 2136 LPM against 146 Head -100HP	150.0000	KW	26500.00	3975000.00
Single Girder E.O.T. Crane - Providing & erecting Single girder type fully electrically operated E.O.T. crane with electrically operated hoist, class II duty, geared travelling trolley with seven meter lift complete with long travel rail track (40 mm sq. bar), moving or cross girder, all three motions electrically operated by suitable rating motor IP 54, control panel & down pendant control block, brake, safety device, cables from motor to starter panel & other required accessories & tested as per IS Specifications. - 5.0 T - 6.0m span - 12.0m long Travel - 6-10m Height - Excluding GST	1.0000	Nos	831000.00	831000.00
Supplying and laying of approved Make Nylon rope 12mm thick complete with binding for support of pump and motor	100.0000	Rmt	60.00	6000.00

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Supplying and laying of submersible flat cable ISI marked 3 core copper wire of suitable size with proper clamping of approved make. - 10.0 Sq.mm.multi strand(Rmt)	100.0000	Rmt	398.00	39800.00
Supplying and laying of approved make stainless steel wire rope 6 mm thick complete with binding for support of pump and motor	100.0000	Rmt	137.00	13700.00
<b>Total Estimate</b>				13351770.00
<b>Supply, Errection, Commissioning and testing of Pumpsets At Clear Water Sump at WTP, IPS-1 &amp; IPS-2.</b>				
Electro mechanical components of Pumping Station having installedcapacity up to = 75 kW with working load not exceeding 75 KW - Supply,installation, testing & commissioning of electro-mechanical equipmentsof water supply pumping system viz. pumping machinery (of followingtype & rating), valves (SV/BFV/DPCV), Suction-delivery-discharge headerpipes & specials, expansion bellows, flow meter (full bore electromagnetic- For size = 1400 mm) / ultrasonic - For size = 1500 mm), materialhandling system (motorised chain pulley block with geared travellingtrolley), vaccum pumps with accessories or horizontal mono submersible(drain) pump with accessories including LV MCC - APFC panels, LT XLPE insulated Cu / Al armoured / PVC insulated round Copper submersiblecables with tray & kits, earthing system, fire extinguisher, Exhaust Fan,safety accessories etc. as per specifications. including cost of errectionand Overheads. - 5.0 HP Individual OHT Pumping at 4 Places	8.0000	Nos	82060.00	656480.00
Electro mechanical components of Pumping Station having installedcapacity up to = 75 kW with working load not exceeding 75 KW - Supply,installation, testing & commissioning of electro-mechanical equipmentsof water supply pumping system viz. pumping machinery (of followingtype & rating), valves (SV/BFV/DPCV), Suction-delivery-discharge headerpipes & specials, expansion bellows, flow meter (full bore electromagnetic- For size = 1400 mm) / ultrasonic - For size = 1500 mm), materialhandling system (motorised chain pulley block with geared travellingtrolley), vaccum pumps with accessories or horizontal mono submersible(drain) pump with accessories including LV MCC - APFC panels, LT XLPE insulated Cu / Al armoured / PVC insulated round Copper submersiblecables with tray & kits, earthing system, fire extinguisher, Exhaust Fan,safety accessories etc. as per specifications. including cost of errectionand Overheads. - Discharging 1114 LPM aganst 53 Head -20HP at Sump (Kheiwani)	3.0000	Nos	328240.00	984720.00

**Item Requirement Task Wise**

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Electro mechanical components of Pumping Station having installed capacity up to = 75 kW with working load not exceeding 75 KW - Supply, installation, testing & commissioning of electro-mechanical equipment of water supply pumping system viz. pumping machinery (of following type & rating), valves (SV/BFV/DPCV), Suction-delivery-discharge header pipes & specials, expansion bellows, flow meter (full bore electromagnetic- For size = 1400 mm) / ultrasonic - For size = 1500 mm), material handling system (motorised chain pulley block with geared travelling trolley), vacuum pumps with accessories or horizontal mono submersible (drain) pump with accessories including LV MCC - APFC panels, LT XLPE insulated Cu / Al armoured / PVC insulated round Copper submersible cables with tray & kits, earthing system, fire extinguisher, Exhaust Fan, safety accessories etc. as per specifications. including cost of erection and Overheads. - Discharging 1813 LPM against 55 Head -35HP at Sump (WTP)	3.0000	Nos	574420.00	1723260.00
Electro mechanical components of Pumping Station having installed capacity up to = 75 kW with working load not exceeding 75 KW - Supply, installation, testing & commissioning of electro-mechanical equipment of water supply pumping system viz. pumping machinery (of following type & rating), valves (SV/BFV/DPCV), Suction-delivery-discharge header pipes & specials, expansion bellows, flow meter (full bore electromagnetic- For size = 1400 mm) / ultrasonic - For size = 1500 mm), material handling system (motorised chain pulley block with geared travelling trolley), vacuum pumps with accessories or horizontal mono submersible (drain) pump with accessories including LV MCC - APFC panels, LT XLPE insulated Cu / Al armoured / PVC insulated round Copper submersible cables with tray & kits, earthing system, fire extinguisher, Exhaust Fan, safety accessories etc. as per specifications. including cost of erection and Overheads. - Discharging 2238 LPM against 95 Head -70HP at Sump (WTP)	3.0000	Nos	1148840.00	3446520.00
Electro mechanical components of Pumping Station having installed capacity up to = 75 kW with working load not exceeding 75 KW - Supply, installation, testing & commissioning of electro-mechanical equipment of water supply pumping system viz. pumping machinery (of following type & rating), valves (SV/BFV/DPCV), Suction-delivery-discharge header pipes & specials, expansion bellows, flow meter (full bore electromagnetic- For size = 1400 mm) / ultrasonic - For size = 1500 mm), material handling system (motorised chain pulley block with geared travelling trolley), vacuum pumps with accessories or horizontal mono submersible (drain) pump with accessories including LV MCC - APFC panels, LT XLPE insulated Cu / Al armoured / PVC insulated round Copper submersible cables with tray & kits, earthing system, fire extinguisher, Exhaust Fan, safety accessories etc. as per specifications. including cost of erection and Overheads. - Discharging 695 LPM against 55 Head -15HP at IPS-1	2.0000	Nos	246180.00	492360.00

## Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Electro mechanical components of Pumping Station having installed capacity up to = 75 kW with working load not exceeding 75 KW - Supply, installation, testing & commissioning of electro-mechanical equipment of water supply pumping system viz. pumping machinery (of following type & rating), valves (SV/BFV/DPCV), Suction-delivery-discharge header pipes & specials, expansion bellows, flow meter (full bore electromagnetic - For size = 1400 mm) / ultrasonic - For size = 1500 mm), material handling system (motorised chain pulley block with geared travelling trolley), vacuum pumps with accessories or horizontal mono submersible (drain) pump with accessories including LV MCC - APFC panels, LT XLPE insulated Cu / Al armoured / PVC insulated round Copper submersible cables with tray & kits, earthing system, fire extinguisher, Exhaust Fan, safety accessories etc. as per specifications. including cost of erection and Overheads. - Discharging 861 LPM against 63 Head - 20HP at IPS-2	2.0000	Nos	328240.00	656480.00
Providing 9.0m x 6.0m Pump house at Head works	3.0000	Nos	810000.00	2430000.00
Single Girder E.O.T. Crane - Providing & erecting Single girder type fully electrically operated E.O.T. crane with electrically operated hoist, class II duty, geared travelling trolley with seven meter lift complete with long travel rail track (40 mm sq. bar), moving or cross girder, all three motions electrically operated by suitable rating motor IP 54, control panel & down pendant control block, brake, safety device, cables from motor to starter panel & other required accessories & tested as per IS Specifications. - 5.0 T - 6.0m span - 12.0m long Travel - 6-10m Height - Excluding GST	3.0000	Nos	800000.00	2400000.00
Supplying and laying of approved Make Nylon rope 12mm thick complete with binding for support of pump and motor	600.0000	Rmt	60.00	36000.00
Supplying and laying of approved make stainless steel wire rope 6 mm thick complete with binding for support of pump and motor	600.0000	Rmt	137.00	82200.00
Supplying and laying of submersible flat cable ISI marked 3 core copper wire of suitable size with proper clamping of approved make. 10.0 Sq.mm. multi strand (Rmt)	600.0000	Rmt	398.00	238800.00
<b>Total Estimate</b>				<b>13146820.00</b>
<b>Providing and making Consumer Service Connection (House Hold Connection) - 5650 No.s (yr. 2023)</b>				

**Item Requirement Task Wise**

<b>Particulars</b>	<b>Est. Qty</b>	<b>Unit</b>	<b>Est. Price</b>	<b>Est. Cost</b>
Providing and making Consumer Service Connection (House Hold Connection) on HDPE pipe, With the help of electrofusion machine including all labour, and material such as Saddle, barss ferrule ( Not less then 100 gm), double compression elbow, male/female threaded adopter with metal insert, sockets, union 20mm dia MDPE/15 mm dia GI pipe (medium class) closing tape welded to socket and nipple etc all complete and complying with the relevant BIS specifications. Rate also includes excavation, cutting of road if required, refilling the trenches and restoration of road with 1:1.5:3 CC, construction of Platform and grouting of circular post need finished as per the drawing attached testing all complete. - For connection with 20 mm dia MDPE pipe upto 5 mtr and concrete road crossing is necessary.	<b>1695.0000</b>	Each	<b>2830.00</b>	<b>4796850.00</b>
Providing and making Consumer Service Connection (House Hold Connection) on HDPE pipe, With the help of electrofusion machine including all labour, and material such as Saddle, barss ferrule ( Not less then 100 gm), double compression elbow, male/female threaded adopter with metal insert, sockets, union 20mm dia MDPE/15 mm dia GI pipe (medium class) closing tape welded to socket and nipple etc all complete and complying with the relevant BIS specifications. Rate also includes excavation, cutting of road if required, refilling the trenches and restoration of road with 1:1.5:3 CC, construction of Platform and grouting of circular post need finished as per the drawing attached testing all complete. - For connection with MDPE pipe 20 mm dia 5 mtr to 10 mtr and concrete road crossing is necessary.	<b>2825.0000</b>	Each	<b>3020.00</b>	<b>8531500.00</b>
Providing and making Consumer Service Connection (House Hold Connection) on HDPE pipe, With the help of electrofusion machine including all labour, and material such as Saddle, barss ferrule ( Not less then 100 gm), double compression elbow, male/female threaded adopter with metal insert, sockets, union 20mm dia MDPE/15 mm dia GI pipe (medium class) closing tape welded to socket and nipple etc all complete and complying with the relevant BIS specifications. Rate also includes excavation, cutting of road if required, refilling the trenches and restoration of road with 1:1.5:3 CC, construction of Platform and grouting of circular post need finished as per the drawing attached testing all complete. - For connection with MDPE pipe and road crossing is not required.(Disti.pipe line is on the same side of house.)	<b>1130.0000</b>	Each	<b>2030.00</b>	<b>2293900.00</b>
<b>Total Estimate</b>				<b>15622250.00</b>