KANIX Infotech Pvt. Ltd. ISO 9001-2015

Project Name : WARDHA MV RURAL WATER SUPPLY SCHEME
Task Name : All
Total Records: 406 Records 1 to 406

Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Clear water pumping main of 350 mm DI K9 Pipe line - 6810 M & 300 mm DI-K9 - 600M Pipe line along with all accessories.				
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**

Item Requirement Task Wise

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, resililent (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalaent 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 coatilng both inside and outside (thickness 250 micron)with pocketless strailght 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**

Item Requirement Task Wise

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**

Item Requirement Task Wise

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, resililent (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalaent 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 coatilng both inside and outside (thickness 250 micron)with pocketless strailght 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**

Item Requirement Task Wise

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 mortarlining 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**
Total Estimate				**41644361.47**
Provision for electrical connections for power pumps and Electrical fitting				
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**
Total Estimate				**40071650.50**
Construction of Compound Wall with Gate for All OHTs				
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**

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.	**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**
Total Estimate				**15077382.96**
Construction of Intakewell cum Pumphouse with 8.0 m dia 50m Height cum-pump House.				
Add extra for using salt and charcoal/coke for pipe earth electrode as reqired 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**

Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
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**

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 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**

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 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 mortor cover plate having locking arrangment 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**

Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
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 fixingsteel beading of approved shapeand section with screws insteadof glazing clips and metal sashputty-(a) Steel doors	**4.0000**	Sqm	**256.00**	**1024.00**
Extra for providing and fixingsteel beading of approved shapeand section with screws insteadof glazing clips and metal sashputty-(b) Steel windows	**6.0000**	Sqm	**332.00**	**1992.00**
Extra rate for black trap, basaltor granite metal (for one cumconcrete):- (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-poison-ous 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 incharge of the work. (including inserting in the angle iron and welding) outside OHT	**1.0000**	Each	**25763.00**	**25763.00**
Providing and fixing steel glazeddoors, windows and ventilators of standard rolled steel sections,joints mitred and welded with15x3 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 screwsor rawl plugs and screws or with fixing clips or with bolts and nutsas required including providing and fixing of glass panes with glazing clips and special metalsash putty of approved make complete including Applying apriming coat of approved steel primer, excluding the cost of metal beading and other fitting sexcept 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 glazeddoors, windows and ventilators of standard rolled steel sections,joints mitred and welded with15x3 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 screwsor rawl plugs and screws or with fixing clips or with bolts and nutsas required including providing and fixing of glass panes with glazing clips and special metalsash putty of approved make complete including Applying apriming 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 glazeddoors, windows and ventilators of standard rolled steel sections,joints mitred and welded with15x3 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 screwsor rawl plugs and screws or with fixing clips or with bolts and nutsas required including providing and fixing of glass panes with glazing clips and special metalsash putty of approved make complete including Applying apriming 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 approporiate 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

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
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	**23.7500**	Cum	**5647.00**	**134116.25**
Providing and laying Reinforced/Prestressed cement concrete in superstructure as perdrawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Base Slab	**100.0500**	Cum	**6351.00**	**635417.55**
Providing and laying Reinforced/Prestressed cement concrete in superstructure as perdrawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Corridor Slab	**3.2000**	Cum	**6351.00**	**20323.20**
Providing and laying Reinforced/Prestressed cement concrete in superstructure as perdrawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Lintels	**0.1800**	Cum	**6351.00**	**1143.18**
Providing and laying Reinforced/Prestressed cement concrete in superstructure as perdrawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in - RCC Grade M30 - Pump House	**21.7700**	Cum	**6595.00**	**143573.15**
Providing and laying Reinforced/Prestressed cement concrete in superstructure as perdrawing 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	**223.8700**	Cum	**6106.00**	**1366950.22**
Providing and laying Reinforced/Prestressed cement concrete in superstructure as perdrawing 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	**173.4400**	Cum	**6595.00**	**1143836.80**
Providing and laying Reinforced/Prestressed cement concrete in superstructure as perdrawing 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	**149.2800**	Cum	**6595.00**	**984501.60**
Providing and laying Reinforced/Prestressed cement concrete in superstructure as perdrawing 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	**125.8400**	Cum	**6596.00**	**830040.64**
Providing and laying Reinforced/Prestressed cement concrete in superstructure as perdrawing 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	**103.1000**	Cum	**6597.00**	**680150.70**
Providing and laying Reinforced/Prestressed cement concrete in superstructure as perdrawing 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	**0.0000**	Cum	**0.00**	**0.00**

Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing and laying Reinforced/Prestressed cement concrete in superstructure as perdrawing 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 perdrawing 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, transpotation charges, transit insuranse, 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 bindingwire,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 outing 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,stove 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/celling 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**
Total Estimate				**18390412.13**
Construction of Foot Over Bridge of Length 200 m of Width 5.0m for Approach to Intakewell				
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, tolurence 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 earthto 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**
Total Estimate				**19795427.16**
Construction of 7 Nos Sumps of capacity 50KL to 300 KL				
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**
Total Estimate				**10243883.50**
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.				
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, resililent (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalaent 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 mortarlining 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**
Total Estimate				**40562731.06**
Providing, Laying, jointing, testing and commissioning Clear Water trunk Main from WTP to OHBR to OHT'S (295.82 Km)				
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

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
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	**10.0000**	Each	**4950.00**	**49500.00**
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 Bend	**2.0000**	Each	**6108.00**	**12216.00**
Providing & fixing of following Ductile iron double flanged sluice valves glandless, resililent (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalaent 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 coatilng both inside and outside (thickness 250 micron)with pocketless strailght 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	**37.0000**	Each	**8386.00**	**310282.00**
Providing & fixing of following Ductile iron double flanged sluice valves glandless, resililent (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalaent 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 coatilng both inside and outside (thickness 250 micron)with pocketless strailght 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	**27.0000**	Each	**14379.00**	**388233.00**

Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing & fixing of following Ductile iron double flanged sluice valves glandless, resililent (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalaent 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 coatilng both inside and outside (thickness 250 micron)with pocketless strailght 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, resililent (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalaent 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 coatilng both inside and outside (thickness 250 micron)with pocketless strailght 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, resililent (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalaent 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 coatilng both inside and outside (thickness 250 micron)with pocketless strailght 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

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
Providing & fixing of following Ductile iron double flanged sluice valves glandless, resililent (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalaent 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 coatilng both inside and outside (thickness 250 micron)with pocketless strailght 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	**3.0000**	Each	**98599.00**	**295797.00**
Providing & fixing of following Ductile iron double flanged sluice valves glandless, resililent (soft seated) non-rising spindle with body bonnet of ductile iron of grade GGG 40/SGI 400/12 or equivalaent 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 coatilng both inside and outside (thickness 250 micron)with pocketless strailght 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	**1.0000**	Each	**101186.00**	**101186.00**
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 - 100 X 80	**161.0000**	Each	**1425.00**	**229425.00**
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 - 150 X 80	**117.0000**	Each	**1996.00**	**233532.00**
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 - 200 X 80	**39.0000**	Each	**2756.00**	**107484.00**

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**
Total Estimate				**596874757.07**
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				
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 45O confirming to IS Specifications - 110 mm Ø HDPE 6 kg/CM2	**23.0000**	Each	**337.00**	**7751.00**
Providign & laying Bend 45O confirming to IS Specifications - 160 mm Ø HDPE 6 kg/CM2	**21.0000**	Each	**970.00**	**20370.00**
Providign & laying Bend 45O confirming to IS Specifications - 200 mm Ø HDPE 6 kg/CM2	**1.0000**	Each	**1712.00**	**1712.00**
Providign & laying Bend 45O 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 / heator 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 / heator 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
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 / heator 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) - 200 mm Ø HDPE 6 kg/CM2	**247.0000**	Rmt	**1151.00**	**284297.00**
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 / heator 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) - 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

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
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	**114.0000**	Each	**2025.00**	**230850.00**
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 - 200 mm Ø HDPE 6 kg/CM2	**2.0000**	Each	**3940.00**	**7880.00**
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 - 90 mm Ø HDPE 6 kg/CM2	**793.0000**	Each	**594.00**	**471042.00**
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	**2414.6500**	Cum	**5886.00**	**14212629.90**
Providing and laying in position cast iron flanged spigot (tail piece) - Heavy Class - 100 mm dia	**368.0000**	Each	**1013.00**	**372784.00**
Providing and laying in position cast iron flanged spigot (tail piece) - Heavy Class - 150 mm dia	**46.0000**	Each	**1664.00**	**76544.00**
Providing and laying including testing Bend 90O confirming to IS specifications. - 110 mm Ø HDPE 6 kg/CM2	**25.0000**	Each	**290.00**	**7250.00**
Providing and laying including testing Bend 90O confirming to IS specifications. - 160 mm Ø HDPE 6 kg/CM2	**23.0000**	Each	**791.00**	**18193.00**
Providing and laying including testing Bend 90O confirming to IS specifications. - 200 mm Ø HDPE 6 kg/CM2	**1.0000**	Each	**1437.00**	**1437.00**
Providing and laying including testing Bend 90O confirming to IS specifications. - 90 mm Ø HDPE 6 kg/CM2	**159.0000**	Each	**229.00**	**36411.00**

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**
Total Estimate				**100395274.43**
Design, Supply, Delivery, Erection, Testing, & Commissioning Of Automation Components for Monitoring & Maintainance with GPRS Communication with all necessary accessories. (SCADA)				
Design, Supply, Erection & Commissioning of Reservoir Management System for water Treatment Plant - 12.0 MLD	**1.0000**	Job	**14000000.00**	**14000000.00**
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 Ultrsonic Level Sensor And Transmitters with accessories at HEADWORKS	**1.0000**	Nos	**123567.00**	**123567.00**
Supply, testing and commissioning of Ultrsonic Level Sensor And Transmitters with accessories at OHT's	**54.0000**	Nos	**200000.00**	**10800000.00**
Supply, testing and commissioning of Ultrsonic 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 andotherserver room equipments with 4 hours battery back-up	**1.0000**	Nos	**108191.00**	**108191.00**
Total Estimate				**39821444.00**
Construction of Master balancing Resrvoir Capacites 300KL-25m, 250KL-25m Stg & 150 KL with staging 25 m.				
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

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. - 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/ Alttitude 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/ Alttitude 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/ Alttitude 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**
Total Estimate				**12397751.00**
Water treatment plant of 12.00 MLD Clear water capacity (20 hours) capacity including approach road etc complete.				

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**
Total Estimate				**50788446.00**
Construction of Over Head Service Reservoirs 24 No.s of Different Capacities				
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
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 - Bhilai	**50.0000**	KL	**24110.38**	**1205519.00**
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. Name/Location of OHSR - Bichhwa (Hardoli)	**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 - Chichanda	**120.0000**	KL	**13759.35**	**1651122.00**
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. Name/Location of OHSR - Chikhali Kalan	**100.0000**	KL	**15087.22**	**1508722.00**

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 - Chilhati	**75.0000**	KL	**17057.89**	**1279341.75**
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 - Chouthiya	**75.0000**	KL	**17057.89**	**1279341.75**

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 - Dahargaon	**75.0000**	KL	**17057.89**	**1279341.75**
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 - Deori	**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 - Divtiya	**75.0000**	KL	**17057.89**	**1279341.75**
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 - Dob	**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 - Dunai	**50.0000**	KL	**24110.38**	**1205519.00**
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. Name/Location of OHSR - Ghatpipriya	**200.0000**	KL	**9586.01**	**1917202.00**

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 - Harna Khedi	**50.0000**	KL	**24110.38**	**1205519.00**
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. Name/Location of OHSR - Heti	**75.0000**	KL	**17057.89**	**1279341.75**

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 - Hiwara	**50.0000**	KL	**24110.38**	**1205519.00**
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. Name/Location of OHSR - Khambara	**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 - Kharsali	**50.0000**	KL	**24110.38**	**1205519.00**
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. Name/Location of OHSR - Pipriya	**100.0000**	KL	**15087.22**	**1508722.00**

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 - Sanwari	**75.0000**	KL	**17057.89**	**1279341.75**
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 - Sarra	**75.0000**	KL	**17057.89**	**1279341.75**

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 - Semriya Pandri (Pand	**75.0000**	KL	**17057.89**	**1279341.75**
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 - Sukakhedi	**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**
Total Estimate				**44588933.25**
Supply, Errection, Commissioning and testing of Vertical Turbine Pumpsets at Intakewell - 2 No.s 200HP & 2 No.s 100 HP (2 + 2 Stand by)				
Designing, Supplying, Installing, Commissioning & testing of Flow Control Valve with level control / Pressure reducing valve/ Alttitude 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 installedcapacity up to = 75 kW with working load not exceding 75 KW -Supply, installation, testing & commissioning of electro-mechanicalequipments 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), 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 submersible cables with tray & kits, earthingsystem, fire extinguisher, Exhaust Fan, safety accessories etc. as perspecifications. including cost of errection 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 , maintanance & Repairs . - Discharging 4271 LPM aganst 146 Head -200HP	**300.0000**	KW	**26500.00**	**7950000.00**
Electro mechanical components of Pumping Station having installedcapacity up to = 75 kW with working load not exceding 75 KW -Supply, installation, testing & commissioning of electro-mechanicalequipments 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), vaccum pumps with accessories or horizontal mono submersible (drain) pump with accessories including LV MCC - APFC panels, LT XLPE insulated Cu / Al armoured / PVCinsulated round Copper submersible cables with tray & kits, earthingsystem, fire extinguisher, Exhaust Fan, safety accessories etc. as perspecifications. including cost of errection 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 , maintanance & Repairs . - Discharging 2136 LPM aganst 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 form 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**
Total Estimate				**13351770.00**
Supply, Errection, Commissioning and testing of Pumpsets At Clear Water Sump at WTP, IPS-1 & IPS-2.				
Electro mechanical components of Pumping Station having installedcapacity up to = 75 kW with working load not exceding 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 exceding 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 installedcapacity up to = 75 kW with working load not exceding 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 1813 LPM aganst 55 Head -35HP at Sump (WTP)	**3.0000**	Nos	**574420.00**	**1723260.00**
Electro mechanical components of Pumping Station having installedcapacity up to = 75 kW with working load not exceding 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 2238 LPM aganst 95 Head -70HP at Sump (WTP)	**3.0000**	Nos	**1148840.00**	**3446520.00**
Electro mechanical components of Pumping Station having installedcapacity up to = 75 kW with working load not exceding 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 695 LPM aganst 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 installedcapacity up to = 75 kW with working load not exceding 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 861 LPM aganst 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 form 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**
Total Estimate				**13146820.00**
Providing and making Consumer Service Connection (House Hold Connection) - 5650 No.s (yr. 2023)				

Item Requirement Task Wise

Particulars	Est. Qty	Unit	Est. Price	Est. Cost
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.	**1695.0000**	Each	**2830.00**	**4796850.00**
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.	**2825.0000**	Each	**3020.00**	**8531500.00**
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.)	**1130.0000**	Each	**2030.00**	**2293900.00**
Total Estimate				**15622250.00**