

Sr. No.	Item Description	Qty	Unit	Rate	Add 1% L.C.	Total Rate	Final Amount
10	Providing and laying controlled cement concrete M.250 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (C) Slabs,landing,shelves,Balconies, Lintels, Beams, Girders and Cantilever upto floor two level.	49.46	Cum	4288.32	42.8832	4331.2032	214203.64
	SOR 2023-24 item code-05025CA Page No. 47						
11	Filling in foundation and plinth with murrum or selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc. complete.	92.23	Cum	286.20	2.862	289.062	26660.77
	SOR 2023-24 item code-04008A Page No. 41						
12	Providing and laying in position FE 500D TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for the following.(A) Piers (B) Abutments (C) R.C.C. Returns	16300.91	KG	75.46	0.7546	76.2146	1242367.24
	SOR 2023-24 item code-05014C Page No. 45						
13	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork but excluding the cost of reinforcement for reinforced concrete work in (E) Staircases excluding landing upto floor two level	13.05	Cum	5184.11	51.841	5235.951	68067.36
	SOR 2023-24 item code-05024EA Page No. 47						
14	Structural steel work (Confirming to IS 4923-1997) riveted, bolted or welded in builtup for all type sections, in framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as per the structural designs and directions of Engineer in charge.Column (122 x 61 x 3.6mm)	3306.71	kg	126.68	1.2668	127.9468	423083.22
	SOR 2023-24 item code-20054 Page No. 111						
15	Excavation for foundation for depth from 3.0 m to 5.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(B) Dense or Hard soil	720.00	Cum	172.5	1.725	174.225	125442.00
	SOR 2023-24 item code-04003B Page No. 39						
16	Providing and supplying D. I. K-9 grade pipes for following nominal bore diameter with internal cement mortarlining including all taxes, insurance, transportolion. freight charges. oclroi, inspection charges. loading,unloading, conveyance to departmental stores. stocking etc. complete . (IS 8329-2000). Rote for DI pipe basedon Wholesale Price index of Pig Iron as 149.2 for the month of Jon-2022. For sewerage project cement mortor lining shall be with sulphate resistance cement	80.00	Rmt	3654	36.54	3690.54	295243.20
	GWSSB 2022-23 item code-2.1.B Page No. 05						
17	Lowering, laying and jointing C. I. S & S Spun pipes suitable for Tyton joints/ Mortar lined D. I. Pipes of various classes with CI / MS specials of following diameters in proper position, grade and alignment as directed by Engineer-in-charge including hydraulic testing etc. comp.	80.00	Rmt	155	1.55	156.55	12524.00
	GWSSB 2022-23 item code-6 Page No. 36						
18	Providing and supplying D. I. K-9 grade pipes for following nominal bore diameter with internal cement mortarlining including all taxes, insurance, transportolion. freight charges. oclroi, inspection charges. loading,unloading, conveyance to departmental stores. stocking etc. complete . (IS 8329-2000). Rote for DI pipe basedon Wholesale Price index of Pig Iron as 149.2 for the month of Jon-2022. For sewerage project cement mortor lining shall be with sulphate resistance cement	40.00	Rmt	9945	99.45	10044.45	401778.00
	GWSSB 2022-23 item code-2.1.B Page No. 05						

Sr. No.	Item Description	Qty	Unit	Rate	Add 1% L.C.	Total Rate	Final Amount
29	Providing and filling rubbles including hand packing and filling interstices with quarry spalls behind abutments and between returns as directed.	748.74	Sqm	747.6	7.476	755.076	565356.51
	SOR 2023-24 item code-27006A, Page No. 191						
30	Labour charges for dry stone pitching of 22.5 cm. thick including preparing the surface etc complete.	748.74	Sqm	307.13	3.0713	310.2013	232260.49
	SOR 2023-24 item code-26060, Page No. 138						
PART-D BOREWELL							
31	Providing and laying polished Kota stone slab flooring over 20mm (Average) thick base of cement mortar 1:6 (1-cement : 6-coarse sand) or L.M. 1.1.5 (1-Lime putty :1.5 - coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete. (A) 25mm thick	129.00	Smt	967.05	9.6705	976.7205	125996.94
	SOR 2023-24 item code-14012AA Page No. 90						
32	Drilling of 250/325 MM dia bore hole in all strata including dual over burden strata by combination DR/DTH rig including lowering of 200/250 mm dia MS ERW pipes in bore hole as suggested by hydrologist in Saurashtra region.	90.00	Rmt	1127.00	11.27	1138.27	102444.30
	SOR MECH 2011-13 SECTION E ITEM NO.3A Page No. 3						
33	Supplying at Departmental store board approved make electrical motor driven submersible pump set confirming to I.S. 8034/198/ and motor Confirms to IS-9283-1979 Working at 3 Phase 400/440 Volt 50 c/s AC Supply & 2900 RPM for 6" DIA BORE WELL	2.00	Nos	42634.00	426.34	43060.34	86120.68
	SOR MECH 2011-13 SECTION-A SR NO.1 Page No. 121						
34	Providing and supplying in standard length ISI mark rigid unplasticised PVC pipes suitable for potable water with ring fit joint including cost of rings, as per IS specification no. 4985/1988 including all local and central taxes, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to the departmental stores and including cost of jointing material etc. complete.	365.00	Rmt	273.00	2.73	275.73	100641.45
	GWSSB 2022-23 item code-3.1.B Page No. 06						
35	Excavation for pipe line trenches for water supply, sewerage line, manhole etc. all with shoring and strutting if required as per required gradient and line including safety provisions using site rails and stacking excavated stuff including up to all required lead cleaning the site etc. complete for all lifts and strata as specified.	273.75	Cum	135.00	1.35	136.35	37325.81
	GWSSB 2022-23 item No.1/1.A.1 Page No.32						
36	Refilling the pipeline trenches incl. ramming, watering, consolidating disposal of surplus stuff as directed within a radius of 3 km.	147.68	Cum	22.00	0.22	22.22	3281.43
	GWSSB 2022-23 item No.14 /1 Page No.40						
37	Lowering, laying, fixing and jointing PVC/uPVC/cPVC pipes and specials of following class and diameter including cost of conveyance from stores to site of works including cost of labour, material, cement solvent, giving satisfactory hydraulic testing as per ISI code.	365.00	Rmt	19.00	0.19	19.19	7004.35
	GWSSB 2022-23 item No.8-4 Page No.37						
38	PVC FITTING:- Providing and supplying at store or site of work incl. freight, loading, unloading, stacking, insurance & all taxes etc. complete	10.00	Nos	133.00	1.33	134.33	1343.30

RAJPIPLA NAGARPALIKA

Sr.No.	Item Description	Qty.	Length	Width	Height	Total Qty.	Unit
MEASUREMENT SHEET FOR MAN-MADE LAKE AT RAJPIPLA							
PART-A							
RETANING WALL							
1	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(B) Dense or Hard soil						
	Toe Wall Footing	1.00	75.60	1.50	1.50	170.10	Cum
	ghat Excavation	1.00	10.00	7.00	1.50	105.00	Cum
	for internal lake Area	1.00	26.14	16.14	1.50	632.85	Cum
						907.95	Cum
2	Boring holes 3.5 m deep in ordinary soil (for cast in situ piles) and getting out the soil and disposal of the surplus excavated soil as directed within a lead of 50 Meter for following diameter of pipes.(iii) 300 mm						
	For Pile	34.00				34.00	Nos
						34.00	Nos
3	Extra for under reaming inside the bore Holes for under reamed piles of following Diameter. (iii) 300 mm						
	For Pile	34.00				34.00	Nos
						34.00	Nos
4	Providing and laying cement concrete 1:4:8 (1- Cement : 4- coarse sand : 8- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth						
	Below Toe Wall Footing	1.00	75.60	1.50	0.15	17.01	Cum
						17.01	Cum
5	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. Height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (A) Foundations Footings Bases of Columns etc. and Mass concrete.						
	Toe wall foundation	2.00	75.60		0.23	34.78	Sqm
						34.78	Sqm
6	Providing and laying controlled cement concrete M.250 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete .						
	Toe wall foundation	1.00	75.60	1.50	0.23	26.08	Cum
						26.08	Cum
7	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (C) Vertical surface such as walls (any thickness) partitions and the like including attached buttresses & string course & the like.						
	Toe Wall	2.00	75.60		1.00	151.20	Sqm
	ghat step	48.00	5.00	1.20	0.15	36.36	Sqm
	Ghat side wall	4.00	10.00		2.00	80.00	Sqm
						267.56	Sqm

Sr.No.	Item Description	Qty.	Length	Width	Height	Total Qty.	Unit
8	Providing and laying controlled cement concrete M.250 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (B) Walls , from top of foundation level upto floor two level						
	Toe Wall	1.00	75.60	0.23	1.00	17.39	Cum
	Pile concrete	34.00	0.79	0.09	8.000	19.22	Cum
	Ghat side wall	2.00	10.00	0.23	2.00	9.20	Cum
						45.80	Cum
9	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (H) (1) Sides and soffits of Beams Beam Haunchings cantilevers Girders Bressumers and Lintels not exceeding 1 M. in Depth.						
	B1 Horizontatl Ex.	1.00	102.00		0.500	102.00	Sqm
	B2 Horizontatl Cent.	1.00	88.20		0.380	67.03	Sqm
	B3 Vertical = 102/3	34.00	8.90		0.380	6.76	Sqm
						175.80	Sqm
10	Providing and laying controlled cement concrete M.250 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (C) Slabs,landing,shelves,Balconies, Lintels, Beams , Girders and Cantilever upto floor two level.						
	B1 Horizontatl Ex.	1.00	102.00	0.30	0.500	15.30	Cum
	B2 Horizontatl Cent.	1.00	88.20	0.23	0.380	7.71	Cum
	B3 Vertical = 102/3	34.00	8.90	0.23	0.380	26.45	Cum
						49.46	Cum
11	Filling in foundation and plinth with murrum or selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc. complete.						
	For Footing	1.00	75.60	1.50	1.50	170.10	Cum
	Deduction for pcc	-1.00	75.60	1.50	0.15	-17.01	Cum
	Deduction for bottom slab	-1.00	75.60	1.50	0.23	-26.08	Cum
	Vertical Wall	-1.00	75.60	0.23	2.00	-34.78	Cum
						92.23	Cum
12	Providing and laying in position FE 500D TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for the following.(A) Piers (B) Abutments (C) R.C.C. Returns						
	For Foundation & vertical wall						Kg
	Foundation	1.00	26.08		140.00	3651.48	Kg
	Wall	1.00	45.80		125.00	5725.60	Kg
	Beam	1.00	49.46		140.00	6923.83	Kg
						16300.91	Kg
						16.30	MT
13	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork but excluding the cost of reinforcement for reinforced concrete work in (E) Staircases excluding landing upto floor two level						
	For staircase	48.00	5.00	0.30	0.15	10.80	Cum
	landing	3.00	5.00	1.20	0.13	2.25	Cum
						13.05	Cum

Sr.No.	Item Description	Qty.	Length	Width	Height	Total Qty.	Unit
14	Structural steel work (Confirming to IS 4923-1997) riveted, bolted or welded in builtup for all type sections, in framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as per the structural designs and directions of Engineer in charge.Column (122 x 61 x 3.6mm)						
	vertical pipe(60x60x4mm)	2.00	1.20		6.71	16.10	kg
	horizontal circular pipe (25X25X3mm)	6.00	1.00		1.98	11.88	kg
	top flat (50x50x2.90mm)	1.00	1.00		4.12	4.12	kg
			for 1 mt			32.10	
			for 102mt			3306.71	kg
						3306.71	kg
15	Excavation for foundation for depth from 3.0 m to 5.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(B) Dense or Hard soil						
	Inlet & Outlet Pipe	3.00	40.00	1.20	5.00	720.00	Cum
						720.00	Cum
16	Providing and supplying D. I. K-9 grade pipes for following nominal bore diameter with internal cement mortarlining including all taxes, insurance, transportolion. freighl charges. oclroi, inspection charges. loading,unloading, conveyance to departmental stores. stocking etc. complete . (IS 8329-2000). Rote for DI pipe basedon Wholesale Price index of Pig Iron as 149.2 for the month of Jon-2022. For sewerage project cement mortor lining shall be wilh sulphate resistance cement						
	Inlet Pipe 300MM Dia (K9)	2.00	40.00			80.00	Rmt
						80.00	Rmt
17	Lowering, laying and jointing C. I. S & S Spun pipes suitable for Tyton joints/ Mortar lined D. I. Pipes of various classes with Cl / MS specials of following diameters in proper position, grade and alignment as directed by Engineer-in-charge including						
	Inlet Pipe 300MM Dia (K9)	2.00	40.00			80.00	Rmt
						80.00	Rmt
18	Providing and supplying D. I. K-9 grade pipes for following nominal bore diameter with internal cement mortarlining including all taxes, insurance, transportolion. freighl charges. oclroi, inspection charges. loading,unloading, conveyance to departmental stores. stocking etc. complete . (IS 8329-2000). Rote for DI pipe basedon Wholesale Price index of Pig Iron as 149.2 for the month of Jon-2022. For sewerage project cement mortor lining shall be wilh sulphate resistance cement						
	Outlet Pipe 600MM Dia (K9)	1.00	40.00			40.00	Rmt
						40.00	Rmt
19	Lowering, laying and jointing C. I. S & S Spun pipes suitable for Tyton joints/ Mortar lined D. I. Pipes of various classes with Cl / MS specials of following diameters in proper position, grade and alignment as directed by Engineer-in-charge including						
	Outlet Pipe 600MM Dia (K9)	1.00	40.00			40.00	Rmt
						40.00	Rmt
20	Providing and supplying ISi mark Cl D/F Butterfly Valves as per IS: 13095 (Latest Edition) of following class and diameter including all taxes, insurance, transportation, freight charges. octroi, inspection charges, loading,unloading, conveyance to departmental stores. stacking etc. complete.						
	Inlet Pipe 300MM Dia valve	2.00	1.00			2.00	Nos
						2.00	Nos
21	Lowering, laying and jointing in position following C. I. / D/F Reflux valves, Butterfly valves, Sluice valves and Air valves including cost of all labour, jointing material,including nut bolts and giving satisfactory hydraulic testing , etc. complete.						
	Inlet Pipe 300MM Dia valve	2.00	1.00			2.00	Nos

Sr.No.	Item Description	Qty.	Length	Width	Height	Total Qty.	Unit
						2.00	Nos
22	Providing and supplying ISI mark CI D/F Butterfly Valves as per IS: 13095 (Latest Edition) of following class and diameter including all taxes, insurance, transportation, freight charges. octroi, inspection charges, loading,unloading, conveyance to departmental stores. stacking etc. complete.						
	Outlet Pipe 600MM Dia Valve	1.00	1.00			1.00	Nos
						1.00	Nos
23	Lowering, laying and jointing in position following C. I. / D/F Reflux valves, Butterfly valves, Sluice valves and Air valves including cost of all labour, jointing material,including nut bolts and giving satisfactory hydraulic testing , etc. complete.						
	Outlet Pipe 600MM Dia Valve	1.00	1.00			1.00	Nos
						1.00	Nos
PART-B							
C.C. ROAD							
24	Earthwork for embankment including breaking clods, dressing with all lead and lift (excluding watering and consolidation)(A) From Borrow pits within land width						
	West Side	1.00	140.00	4.50	0.10	63.00	Cum
						63.00	Cum
25	Providing and laying cement concrete 1:4:8 (1- Cement : 4- coarse sand : 8- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth						
	West Side	1.00	140.00	4.50	0.150	94.50	Cum
						94.50	Cum
PART-C							
26	Providing and fixing pre-cast concrete kerb stone of gray cement based concrete block 30cm length,30cm height and 15cm thick of M250 grade concret as per approved design and including excavation for fixing in proper line and level,filling the joint with C:M 1:3 (1cement:3fine sand) etc complete.						
	Surrounding lake	1.00	106.70			106.70	Rmt
		1.00	143.10			143.10	Rmt
		1.00	145.90			145.90	Rmt
						395.70	Rmt
27	Providing and fixing pre-cast Rubber Dye / steel Dye inter locking concrete block 60mm thick with grade of concrete M300 pneumatic compressed / vibrated mechanically and as per approved design Confirming to IS 15658 : 2006 including 35 mm Sand layer for levelling and filling the joint with sand in proper line and level as per guidlines of IRC : SP 63-2018 etc. Complete.						
	Surrounding lake	1.00	62.30	P-area		62.30	Sqm
	out side lake	1.00	90.91	P-area		90.91	Sqm
						153.21	Sqm
28	Providing and laying cement concrete 1:4:8 (1- Cement : 4- coarse sand : 8- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth						
	Below Paver Block	1.00	62.30	P-area	0.100	6.23	Cum
		1.00	90.91	P-area	0.100	9.09	Cum
	Below Steps	48.00	5.00	0.30	0.100	7.20	Cum
	Below landing	3.00	5.00	1.20	0.100	1.80	Cum
						24.32	Cum

Sr.No.	Item Description	Qty.	Length	Width	Height	Total Qty.	Unit
29	Providing and filling rubbles including hand packing and filling interstices with quarry spalls behind abutments and between returns as directed.						
	slope area	34.00	2.54	8.67		748.74	Sqm
						748.74	Sqm
30	Labour charges for breaking boulders and Big.size rubble in to oversize metal for soling.						
	slope area	34.00	2.54	8.67		748.74	Sqm
						748.74	Sqm
31	Providing and laying polished Kota stone slab flooring over 20mm (Average) thick base of cement mortar 1:6 (1-cement : 6-coarse sand) or L.M. 1.1.5 (1-Lime putty :1.5 - coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete. (A) 25mm thick						
	Landing	3.00	5.00	1.20		18.00	Sqm
	Steps	48.00	5.00	0.30		72.00	Sqm
		52.00	5.00	0.15		39.00	Sqm
						129.00	Sqm
PART-D							
BOREWELL							
32	Drilling of 250/325 MM dia bore hole in all strata induding dual over burden strata by combination DR/DTH rig including lowering of 200/250 mm dia MS ERW pipes in bore hole as suggested by hydrologist in Saurashtra region.						
	90m Depth	90.00				90.00	Rmt
						90.00	Rmt
33	Supplying at Departmental store board approved make electrical motor driven submersible pump set confirming to I.S. 8034/198/ and motor Confirms to IS-9283-1979 Working at 3 Phase 400/440 Volt 50 c/s AC Supply & 2900 RPM for 6" DIA BORE WELL						
	20 HP	2.00				2.00	Nos
						2.00	Nos
34	Providing and supplying in standard length ISI mark rigid unplasticised PVC pipes suitable for potable water with ring fit joint including cost of rings, as per IS specification no. 4985/1988 including all local and central taxes, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to the departmental stores and including cost of jointing meterial etc. complete.						
	110MM DIA						
						365.00	Rmt
35	Excavation for pipe line trenches for water supply, sewerage line, manhole etc. all with shoring and struting if required as per required gradient and line including safety provisions using site rails and stacking excavated stuff including up to all required lead cleaning the site etc. complete for all lifts and strata as specified.						
	110MM DIA	1.00	365.00	0.50	1.50	273.75	Cum
						273.75	Cum
36	Refilling the pipeline trenches incl. ramming, watering, consolidating desposal of surplus stuff as directed within a radius of 3 km.						
	EXCAVATION	1.00	365.00	0.50	1.50	273.75	Cum
	AREA OF PIPE	-1.00	3.14	0.11	365.00	-126.07	Cum
						147.68	Cum

Sr.No.	Item Description	Qty.	Length	Width	Height	Total Qty.	Unit
37	Lowering, laying, fixing and jointing PVC/uPVC/cPVC pipes and specials of following class and diameter including cost of conveyance from stores to site of works including cost of labour, material, cement solvent, giving satisfactory hydraulic testing as per ISI code.						
	110MM DIA	365.00				365.00	Rmt
						365.00	Rmt
38	PVC FITTING:- Providing and supplying at store or site of work incl. freight, loading, unloading, stacking, insurance & all taxes etc. complete						
	P. V. C. Couplers 6 Kg/cm ² (Fabricated)	10.00				10.00	Nos
						10.00	Nos
39	PVC FITTING:- Providing and supplying at store or site of work incl. freight, loading, unloading, stacking, insurance & all taxes etc. complete						
	P. V. C. Tee (Moulded) 110 x110 mm	5.00				5.00	Nos
						5.00	Nos
40	PVC FITTING:- Providing and supplying at store or site of work incl. freight, loading, unloading, stacking, insurance & all taxes etc. complete						
	P. V. C. Elbow (Moulded)	10.00				10.00	Nos
						10.00	Nos