

Sr.No.	ITEM OF WORK (Description)	UNIT	TOTAL QUANTITY	Rate	Amount
				(Rs.)	(Rs.)
1	2	3	4	5	6.00
1	Excavation for foundation /pipe trench in soft rock and old cement and lime mansony foundation asphlat road including removing the excavated material up to a distance of 50 meters and lifts as below stacking and spreading as directed normal dewatering preparing the bed for foundation and excluding backfilling etc. complete.				
a	0 to 1 5 m	cum	79795.17	181.5	14482823.38
2	Excavation for foundation pipe trenches in earth, soils of all types, sand, gravel and soft murrum , including removing the excavated material up to a distance of 50 meters and lifts as below, stacking and spreading as directed, normal dewatering, preparing the bed for foundation and excluding backfilling etc complete.				
a	0 to 3 m	cum	123055.86	55	6768072.51
3	Excavation for foundation / pipe trenches in Hard murrum and boulders,W.B.M. road including removing the excavated material up to a distance of 50 meters and lifts as below, stacking and spreading as directed. normal dewatering. preparing the bed for foundation and excluding backfilling etc. complete.				
a	0 to 1 5 m	cum	121282	66	8004611.98
4	Excavation for foundation pipe trenches in slush Muddy/Marshy/slushy Soil including use of poclain labour for dewatering during execution including removing the excavated material up to a distance of 50 meters and lifts as below, stacking and spreading as directed. preparing the bed by cleaning the mud. labour REQUIREDs for execution for shuttering item excluding backfilling etc. complete, Providing and fixing shuttering shall be paid separately				
a	0 to 1. 5 m	cum	74601.77	154	11488671.88
b	1 5 to 3.0 m	cum	279586.18	163.9	45824174.61

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c	3.0 to 4.5 m	cum	127509.26	173.8	22161109.47
d	4.5 0 6.0 m	cum	63439.61	183.7	11653855.89
e	6.0 to 7.5 m	cum	22628.84	193.6	4380943.05
f	7.5 to 9.0 m	cum	8829.32	203.5	1796767.24
5	Excavation for foundation pipe trenches in hard rock and concrete road by chiseling, wedging, line drilling , by mechanical means or by any other means other than blasting, including trimming and leveling the bed by chiseling where necessary and removing the excavated material up to a distance of 50m beyond the area and lifts as below, stacking as directed by engineering charge, normal dewatering excluding backfilling etc, complete by all means				
a	0 to 1.5 in	cum	12742.47	467.5	5957104.02
b	1.5 to 3.0 m	cum	46621.35	477.4	22257031.24
c	3.0 to 4.5 m	cum	19057.19	487.3	9286569.30
d	4.5 to 6.0 m	cum	9225.1	497.2	4586719.03
e	6.0 to 7.5 m	cum	9307.9	507.1	4720037.86
f	7.5 to 9.0 m	cum	1717.72	517	888058.99
6	Timbering, in trenches				
	Open timbering in trenches of depth more than 1.5m for shoring and strutting including use of and waste of all necessary timber works including walling, struts, open polling boards horizontal sheeting, runners, etc as may be necessary and fixing and removal complete for non water logged area				
a	0 to 1.5 m	sqm	358803.84	151.8	54466422.91
b	1.5 to 3 m	sqm	321200.4	163.9	52644745.06
c	3.0 to 4.5 m	sqm	109082.08	176	19198445.36
d	4.5 to 6 m	sqm	45824.91	188.1	8619664.83
e	6.0 to 7.5 m	sqm	16965.75	200.2	3396544.09
f	7.5 to 9.0 m	sqm	7068.99	212.3	1500747.61

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7	Dewatering				
	Dewatering the excavated trenches and pools of water in the building trenches pipelines, as well works by using pumps and other devices including disposing off water to safe distance as directed by engineer-in-charge (including cost of machinery, labour, fuel) etc. complete.				
a	Rate of infiltration medium	bhp/hr	1998970.7	20.9	41778487.65
b	Rate of infiltration high	bhp/hr	975379.48	20.9	20385431.10
c	Rate of infiltration very high	bhp/hr	944316.48	20.9	19736214.43
8	Rubble Stone Soling				
	Providing dry trap/granite/quartzite/gneiss, rubble stone soling in 15 cm to 20 cm thick layers including hand packing and compacting etc. complete.	cum			
			64676.69	418	27034856.45
9	Transportation of earth				
a	Carting away the excavated material for a lead beyond 1km.	cum			
			354150.02	77.26	27361630.64
b	Carting away the excavated material for a lead beyond 3 km	cum			
			389375.05	89.51	34852960.90
c	Carting away the excavated material for a lead beyond 5 km	cum			
			504428.22	113.17	57086141.37
d	Carting away the excavated material for a lead beyond 10 km	cum			
			108686.22	170.28	18507089.24
10	Providing Pipes (RCC NP3 pipe)				
	Providing ISI standard RCC pipes in standard lengths of following class and diameter suitable for rubber ring joints, including all taxes (central and local), inspection charges, transport to stores-sites, unloading and stacking etc complete				
	one rubber ring should be supplied with each full length socketed pipe, cost including in rates below				
	Class NP III				
a	150 mm	RMT	10840	221	2395719.56
b	200 mm	RMT	9736	331	3222715.30
c	250 mm	RMT	8860	424	3756512.80

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d	300 mm	RMT	8516	434	3695865.88
f	400 mm	RMT	9736	1037	10096626.06
h	500 mm	RMT	7914	1303	10311446.86
l	600 mm	RMT	2495	1446	3607770.00
j	700 mm	RMT	2220	2136	4741535.52
j	800 mm	RMT	913	3675	3356010.00
k	900 mm	RMT	1362	2809	3825296.20
l	1000 mm	RMT	987	3292	3248545.60
m	1100 mm	RMT	1135	4161	4722943.05
n	1200 mm	RMT	552	4662	2571326.10
11	Providing Pipes (RCC NP4 pipe)				
	Providing ISI standard RCC pipes in standard lengths of following class and diameter suitable for rubber ring joints, including all taxes (central and local), inspection charges, transport to stores-sites, unloading and stacking etc complete				
	one rubber ring should be supplied with each full length socketed pipe, cost including in rates below				
	Class NP IV				
a	150 mm	RMT	3733	247	922130.04
b	200 mm	RMT	3429	347	1189911.58
c	250 mm	RMT	2518	476	1198672.72
d	300 mm	RMT	2617	556	1455018.64
f	400 mm	RMT	5429	1089	5912246.34
h	500 mm	RMT	3533	1490	5263872.00
l	600 mm	RMT	1851	1602	2964501.00
j	700 mm	RMT	763	2503	1909288.40
k	900 mm	RMT	357	3520	1257344.00
l	1000 mm	RMT	341	4522	1542002.00
m	1100 mm.	RMT	184	4905	900067.50
12	Lowering laying and jointing in proper grade and alignment R.C.C. pipes with socketed RCC pipes with rubber joints (excluding cost of rubber ring) including cost of conveyance from stores to site of work, cost of jointing material, labour, giving hydraulic testing etc. complete as directed by engineer-in charge				

Sr.No.	ITEM OF WORK (Description)	UNIT	TOTAL QUANTITY	Rate	Amount
				(Rs.)	(Rs.)
a	150 mm	RMT	14574	24.2	352683.06
b	200 mm	RMT	13165	37.4	492387.46
c	250 mm	RMT	11378	49.5	563207.04
d	300 mm	RMT	11133	59.4	661285.94
f	400 mm	RMT	15165	68.2	1034283.01
h	500 mm	RMT	11446	74.8	856192.22
i	600 mm	RMT	4346	82.5	358503.75
j	700 mm	RMT	2983	102.3	305122.03
k	800 mm	RMT	913	126.5	115519.80
l	900 mm	RMT	1719	160.6	276071.40
m	1000 mm	RMT	1328	190.3	252680.34
n	1100 mm.	RMT	1319	231	304585.05
o	1200 mm	RMT	552	282.7	155923.19
13	Lining with Polyurea 100% for RCC pipes Primer material- Polyprime or Nukote approved primer Thickness-DFT-Nominal 100 microns or 0.075 mm Coating material – Polyurea HTC colour – Grey Thickness DFT- Nominal 1000 microns or 1.00 mm	sqm	100	1497.38	149737.50
14	Thickness of purethane 386/900 is 1.50mm for smooth RCC pipes .The RCC will be "sweep" blasted lightly to remove surface laitance ,primed with 100 microns of purethane P-IV , 100% solids polyurethane primer to a wet film thickness of 100 microns ,Followed by purethane ,100% solids pluyuthane coating at 1.5 mm	sqm	100	785.29	78529.00
15	Providing Pipes (DI K9 pipe)				
	Providing D I K-9 grade Pipe, with internal cement mortar lining including all taxes. insurance. railway freight, unloading from railway wagon. loading into truck, transport to departmental stores site, unloading- stacking etc complete. (IS 8329-2000 latest Version)				
a	150 mm	RMT	730	863.05	630382.08
b	200 mm	RMT	668	1178.75	786917.00
c	250 mm	RMT	551	1558	857898.05
d	300 mm	RMT	540	1866.53	1007937.13

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				(Rs.)	
f	400 mm	RMT	722	2829	2043003.94
h	500 mm	RMT	533	3959.58	2111429.91
i	600 mm	RMT	208	5249.03	1091091.21
j	700 mm	RMT	133	6762.95	898969.19
k	800 mm	RMT	46	8385.53	382883.30
l	900 mm	RMT	80	10084.98	808669.16
m	1000 mm	RMT	57	11938.18	686206.59
16	Lowering, laying and jointing with SBR rubber gaskets C.I S/s pipes of various classes with CI/MS specials of following diameter in proper position, grade and alignment as directed by engineer-in-charge including conveyance of material from stores to site of work including cost of jointing materials and rubber rings labour, giving hydraulic testing etc complete.				
a	150 mm	RMT	730	49.5	36155.39
b	200 mm	RMT	668	67.1	44795.02
c	250 mm	RMT	551	92.4	50879.19
d	300 mm	RMT	540	101.2	54648.74
f	400 mm	RMT	722	168.3	121540.32
h	500 mm	RMT	533	205.7	109688.83
i	600 mm	RMT	208	262.9	54647.84
j	700 mm	RMT	133	359.7	47813.34
k	800 mm	RMT	46	489.5	22350.57
l	900 mm	RMT	80	576.4	46218.92
m	1000 mm	RMT	57	682	39201.36

Sr.No.	ITEM OF WORK (Description)	UNIT	TOTAL QUANTITY	Rate	Amount (Rs.)
				(Rs.)	
17	Providing and Laying Pipes (HDPE pipes) Providing and supplying in standard lengths polyethelene pipes ,confirming to IS 4984 /14151 /12786 with necessary jointing material like mechanical connector i.e. thread /insert joint/ quick release coupler joint / compression fitting joint or flanged joint or flanged joint including all taxes (central and local), inspection charges, transportation and fright charges inspection charges ,conveyance to the departmental stores /site & stacking the same in closed shade duely protecting from sunrays & rains etc complete				
	PE 100- 6KG/SQCM				
a	160 mm	RMT	173	523	90374.40
b	200 mm	RMT	931	805	749777.00
c	250 mm	RMT	416	1268	527488.00
d	315 mm	RMT	400	2014	805600.00
f	400 mm	RMT	636	3399	2162103.90
18	Lowering. laying and jointing HDPE pipes with the help of teflon coated disc & hot flame blower to the required temparature and then pressing the ends together against each other to form monolithics & leak proof joint by thermosetting process the pressing may be required to be done with jig fixtures etc. complete with all materials labours as directed by engineer in charge including given satisfactory hydraulic testing etc complete.				
a	160 mm	Joint	35	27.5	950.40
b	200 mm	Joint	186	31.9	5942.33
c	250 mm	Joint	83	40.7	3386.24
d	315 mm	Joint	80	47.3	3784.00
f	400 mm	Joint	127	67.1	8536.46

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19 a	Manholes Providing and constructing on sewer.R.C.C circular manhole concentric cone 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 2.0 M of Reinforced Cement Concrete (M-250) in CM 1:4 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C.1:2:4 proportion, finishing channel, in smooth rendering, providing C.I dapuri type steps each weighing 5.5 kg., 1:2:4 coping and providing and fixing approved make and quality SFRC frame and cover of 56 cm dia etc., complete as directed by engineer- in-charge.	No.	633	18144	11485152.00
	rebate for every decrease in depth of 50 cm or part thereof	50cm depth	180.7	1936	349839.77
b	Providing and constructing on sewer, R.C.C M200 circular manhole concentric cone 1.5m in dia at bottom and 0.5 m dia at top and up to a depth of 5.0 m with of Reinforced Cement Concrete (M-250) in CM 1:4 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C.1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 kg..1:2:4 coping and providing and fixing approved make and quality-, SFRC frame and cover of 56 cm dia etc., complete as directed by engineer-in-charge.	No.	2117	40584	85916328.00
	rebate for every decrease in depth of 50 cm or part thereof	50cm depth	3837.39	3696	14182986.36

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				(Rs.)	
c	Providing and constructing on sewer.R.C.C circular manhole concentric cone 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 9.0 M with of Reinforced Cement Concrete (M-250) in CM 1:4 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C.1:2:4 proportion, finishing channel, in smooth rendering, providing C.I dapuri type steps each weighing 5.5 kg., 1:2:4 coping and providing and fixing approved make and quality SFRC frame and cover of 56 cm dia etc., complete as directed by engineer- in-charge.	No.	545	82155.2	44774584.00
	rebate for every decrease in depth of 50 cm or part thereof	50cm depth	1461.75	4752	6946232.13
20	Drainage Drops				
a	Providing 150mm dia S.W. or R.C.C.pipes in vertical drop arrangement including providing 150 dia S.W. R.C.C. pipe fixed in R.C.C. M 200 of manhole at the REQUIREDd level including providing 150 mm dia double tee, bend up to the foundation of manhole jointing,cutting filleting including neat cement rendering plugging the opening with jungle wood knob complete as directed by Engineer-in-charge (0.60M depth) excluding cost of chamber.	No.	6	938.3	5629.80
	Extra for every 0.5 depth beyond initial depth of 0.60 M	50cm depth	13	205.7	2674.10
b	As above but 200 mm dia pipes and depth 0.60M	No.	46	1452	66792.00
	Extra for every 0.5 depth beyond initial depth of 0.60 M	50cm depth	101	345.4	34885.40
c	As above but 250 mm dia pipes and depth 0.60M	No.	25	1833.7	47676.20
	Extra for every 0.5 depth beyond initial depth of 0.60 M	50cm depth	39	411.4	16044.60
d	As above but 300 mm dia pipes and depth 0.60M	No.	18	2148.3	38669.40
	Extra for every 0.5 depth beyond initial depth of 0.60 M	50cm depth	17	471.9	8022.30

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e	As above but 400 mm dia pipes and depth 0.60M	No.	60	2541	152460.00
	Extra for every 0.5 depth beyond initial depth of 0.60 M	50cm depth	37	580.8	21489.60
f	As above but 500 mm dia pipes and depth 0.60M	No.	18	2891.9	54946.10
	Extra for every 0.5 depth beyond initial depth of 0.60 M	50cm depth	12	641.3	7695.60
g	As above but 600 mm dia pipes and depth 0.60M	No.	4	3327.5	13310.00
	Extra for every 0.5 depth beyond initial depth of 0.60 M	50cm depth	8	738.1	5904.80
21	Bedding				
	Providing and laying in situ Cement concrete in proportion M20 of trap metal for foundation and bedding including bailing out water manually, from work, compacting and curing				
	PCC M20	cum	23156.15	2758.85	63884333.76
22	Providing and filling in the foundation trenches with sand of approved quality including watering compaction. etc complete	cum	3621.16	330	1194982.55
23	RCC				
	Providing and laying insitu Cement concrete of trap/granite/ quartzite / gneiss metal for RCC work in foundation like encasing, raft, grillage, strip foundation and footing of RCC columns and steel stanchions including dewatering, formwork, compaction finishing & curing etc, complete.(By wigh batching and mix design for M-250 and M-300 only.) Use of L&T,A.C.C.,Ambuja,Birla Gold,Manikgad,Rajashree,etc.cement is permitted)(excluding M.S. or Tor reinforcement)				
	For RCC M-250 grade	cum	11293.79	3022.22	34132316.52

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24	STEEL REINFORCEMENT Providing and fixing in position steel bar reinforcement of various diameters for RCC piles caps ,footing foundations,slabs,beams,columns,canopies, staircases,newls ,chajjas lintels, pardies,copings ,fins arches ,etc. as per detailed designs,drawings and schedules including cutting bending ,hooking the bars .binding with wires or tack welding and supporting as REQUIRED etc.complete. (including cost of binding wire)				
		MT	1411.72	34823.8	49161583.37
25	Providing fusion bonded epoxy coating top reinforcement bars as per ASTM-755 specification for a thickness of 175 (± 50) microns including extra cost on account of touch-up material supplied by coating agency and repair work extra cost on account of transportation to and from steel yard at kamlboli to plat at Daman and plat at Daman to work site by trailer loading ,unloading ,including all taxes (central and local)_etc. complete.				
	For Reinforcement Diameterwise Rates				
	8mm to20 mm dia		1411.72	14619	20637988.60
26	Refilling in trenches				
A	Filling in plinth and floor / trenches with Contractor's murrum for bedding in 15cm to 20 cm layers including watering and compaction etc. complete (MJP /SR 2006-2007 Page no. 39) item no. 19	cum	313629.81	187	58648774.00
B	Geo Synthetic polymer solution	cum	300588	27.5	8266169.86
C	Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard in 15cm layers with all leads and lifts including consolidation, surcharging etc.complete	cum	102773.76	22	2261022.64

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27	Road restoration				
A	Supplying-----trap / granite / quartzite / gneiss / laterite stone metal at the road side for metal including conveying & stacking etc. complete.				
	a) By Blasting (Hand broken)				
	i) 80 mm metal	cum	146479.46	423.24	61995967.75
	ii) 60 mm metal	cum	25493.71	444.24	11325323.80
	iii) 40 mm metal	cum	16995.8	486.24	8264038.00
B	Supplying----- crushed metal of trap / granite / quartzite / gneiss stone aggregate at the road side, including conveying and stacking etc. complete for use in bituminous road surface.				
	i) 6 mm	cum	2549.37	405.64	1034126.50
C	Spreading oversize 40mm / 60mm /80mm metal including sectioning etc. complete.	cum			
			138342.23	30.45	4212520.99
D	Compacting sub grade / gravel / oversize metal(200mm loose)layer 2 to 7 m wide with static roller, including necessary, labour, materials and artificial watering etc. complete.	sqm			
			647682.34	8	5181458.69
E	Spreading gravel / hard murum /soft murum & stone dust over the rubble soling, oversize and size metal layer / blandage on W.B.M. surface etc. complete.	cum			
			2549.37	16	40789.92
F	Compacting the size metal (150 mm loose) layer upto 2.00m width with static roller , including necessary labour, materials and artificial watering etc. complete.	sqm			
			647682.34	7.35	4760465.17

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G	Providing and laying bituminous tack coat, @50 Kg/100 m2 over B.T.surface by manual/mechanical sprayer including supplying all materials,preparing the existing surface,heating bitumen and applying tack coat evenly on the surface etc. complete. (using 60/70 grade)	sqm	240767.17	13.79	3320179.34
H	Providing and laying hot mix hot laid bituminous macadam 50/75 mm average thickness with 30/40 grade of bitumen by weight of total mix for levelling course to remove irregularities / Base course including diversion of traffic supply of all materials, heating bitumen and chips in drum mix plant, cleaning the road surface, laying bituminous macadam by paver finisherr including compacting with static roller transportation and cost of all materials, bitumen from refinery etc. complete. (excluding tack coat)	sqm			
	l) 3% Base course		28717.75	2937.61	84361547.39
I	Providing 20 mm thick bituminous premix carpet of 30/40 grade of bitumen including supplying all materials, preparing and cleaning the base, heating bitumen mixing hot bitumen and chips, laying the carpet layer and compacting etc. complete.(using Bulk Asphalt.)	sqm	254937.01	87.98	22429358.41
			TOTAL		1254906491