

SCHEDULE 3 TREATED OUTFALL					
Sr.No.	ITEM OF WORK (Description)	UNIT	TOTAL QUANTITY	Rate	Amount (Rs.)
1	Excavation for foundation /pipe trench in soft rock and old cement and lime masonry foundation asphalt 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	594	181.5	107811
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 1.5 m	Cum	891	55	49005
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	891	66	58806
4.	Excavation for foundation pipe trenches in slush Muddy/Marshy/slushy/Soil including use of poclairn 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 requires for execution for shuttering item excluding backfilling etc.,complete,Providing and fixing shuttering shall be paid separately				
a	0 to 1 5 m	Cum	594.68	154	91580.27
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	89.2	467.5	41701.73

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Sr.No.	ITEM OF WORK (Description)	UNIT	TOTAL QUANTITY	Rate	Amount (Rs.)
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	Sq. M.	3.42	151.8	519.16
b	1.5 to 3 m	Sq. M.	0.9	163.9	147.97
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	1483.05	20.9	30995.67
b	Rate of infiltration high	BHP/HR	798.56	20.9	16689.98
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	1.08	418	451.44
9	Providing Pipes (GRP pipe)				
	Providing GRP Pipe conforming to BIS 12709/BIS 14402 with double bell REKA GRP coupling EPDM rubber Gaskets for sealing of pressure dia and stiffness class including of all taxes. insurance. railway freight, unloading from railway wagon. loading into truck, transport to departmental stores site, unloading- stacking etc complete.				
a	400 mm	RMT	2000	2651.9	5303800
b	500 mm	RMT	3000	3481.05	10443150
10	Lowering laying Jointing GRP pipes by heating to the end of pipes with the help of teflon coated Electric mirror/heater, using Butt Fusion (With ED) 2.5 to 8.0 kg/Sq.cm.				
b	450 mm	RMT	2000	2651.9	5303800
c	560 mm	RMT	3000	3481.05	10443150

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Sr.No.	ITEM OF WORK (Description)	UNIT	TOTAL QUANTITY	Rate	Amount (Rs.)
11	Valve				
	Providing ,double flanged short body pattern type manually operated Butterfly valve having body ,disc and end cover in graded cast iron to IS 210 Gr. CF 200 generally conforming in BS 5155, Synthetic rubber faced ring secured on disc by retaining ring with stainless steel screw stub shaft of stainless steel riding in Teflon bearings excluding C.C. foundation /structural steel support confirming to IS 13095 -1991				
a	400 mm	No.	6	65306.2	391837.2
b	500 mm	No.	12	88323.45	1059881
12	Valve Actuators				
	Lowering, laying and Jointing in Position following C.I.D./F Reflex valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete (rate for all class of Valves.)				
a	400 mm	No.	6	3109.7	18658.2
b	500 mm	No.	12	3654.2	43850.4
13	Valve Actuators				
	Providing ,erecting electric valve actuators totally enclosed ,weather-proof and dust proof construction with IP-67,protection class suitable for installation in any position without lubrication leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically disengage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt,5 Amp AC/DC torque switchdial and with TEFC squirell cage induction motor working on 440 Volts +/- 10% ,3 phase ,50 Hz AC of intermittent duty rating S-2 insulation class " F " and temp rise restricted to class "B" with IP-67 protection class suitable for DOL Starting and with three thermostat and 30% over load margin. The torque rating of reduction gear box shall be atleast 1.5 times max. torque required for opening and closing of valve.				
a	400 mm	No.	6	88126.97	528761.8
b	500 mm	No.	12	155466.2	1865594
c	600 mm	No.	2	155466.2	310932.4

SCHEDULE 3 TREATED OUTFALL					
Sr.No.	ITEM OF WORK (Description)	UNIT	TOTAL QUANTITY	Rate	Amount (Rs.)
14	PCC				
	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				
a	M20	cum	10	3273	32730
15	Providing and filling in the foundation trenches with sand of approved quality including watering compaction. etc complete	cum	10	330	3300
16	RCC				
	Providing and laying in situ Cement concrete of trap/granite/ quartzite / gneiss metal for RCC work in foundation like 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)				
a	For RCC M-250 grade	cum	167.9	4210.05	706846.3
17	Valve chamber with pre cast steel fibre reinforced concrete frame and covers (S.F.R.C. frame and covers.)				
	Providing and constructing B.B. masonry valve chamber with 15 cm thick 1:3:6 proportion PCC bedding ,excluding excavation ,B.B. masonry in C.M. 1 : 5 Proportion precast S.F.R.C. frame and cover etc. complete as directed by Engineer –in –charge . (Note : Wall thickness : 0.23 M for depth of 1.2 M and 0.35M for balance depth exceeding 1.2 M)				
	As above of 90 X 45 cm internal size and depth up to 1.2 M with S.F.R.C. frame and cover.				
	A .Add for every increase in depth 30 cm there of				
	Depth of 1.8	No.	20	6359.1	127182
18	STEEL REINFORCEMENT Providing and fixing in position steel bar reinforcement of various daimeters for RCC piles caps ,footing foundations,slabs,beams,columns,canopies,staircases,ne wls ,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	10.07	34823.3	350799.5
19	Refilling in trenches				

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Sr.No.	ITEM OF WORK (Description)	UNIT	TOTAL QUANTITY	Rate	Amount (Rs.)
a	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	1325.48	22	29160.48
20	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	1782	407.29	725790.8
	ii) 60 mm metal	Cum	1425.6	444.24	633308.5
	ii) 40 mm metal	Cum	950.4	486.24	462122.5
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	142.56	405.64	57828.04
C	Spreading oversize 40mm / 60mm metal including sectioning etc. complete.	Cum	4158	30.45	126611.1
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.	Sq. M.	106920	8	855360
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	142.56	16	2280.96
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.	Sq. M.	106920	7.35	785862
G	Providing and laying bituminous tack coat, @50 Kg/100 m ² 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)	Sq. M.	35640	13.79	491475.6

SCHEDULE 3 TREATED OUTFALL					
Sr.No.	ITEM OF WORK (Description)	UNIT	TOTAL QUANTITY	Rate	Amount (Rs.)
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)				
	l) 3% Base course	Sq. M.	8910	2937.61	26174105
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.)	Sq. M.	71280	87.98	6271214
			TOTAL		73947101