

**BOQ FOR SEWERAGE NETWORK PACKAGE-1**

<b>Sr. No.</b>	<b>Description</b>	<b>Unit</b>	<b>Rate in Rs</b>	<b>Qty</b>	<b>Amount in Rs</b>
	<b>PART-A</b>				
<b>I</b>	<b>CIVIL ITEMS</b>				
1	<b>Earth Work Excavation</b>				
	Earth work Excavation and Depositing on bank with an Initial lead of 10.00m and initial lift of 2.00m in case of Head Lead only. Excluding of cost of seinorage charges on all materials				
1.1	For 0 to 2.0 m depth	Cum		69142	
	Earthwork excavation for the following depth with all lead & lifti in Soft Disintegrated Rock for laying of varying sizes of sewers, including bailing out of water, barricading with safety lamps etc all complete as per standard specification as directed ,excluding of cost of seinorage charges on all materials				
1.2	For 2.0 to 5.0 m depth	Cum		342287	
1.3	For 5 to 6 m depth	Cum		678	
1.4	For depth grater than 6.0 m	Cum		367	
2	<b>Sand Bedding</b> : Sand for filling and blindage,Excluding of cost of seinorage charges on all materials	Cum		54481	
3	<b>Refilling</b> with the excavated soils ( other than sand) complying with the standard specifications for filling foundations.Excluding of cost of seinorage charges on all materials	Cum		301926	
3a	Bailing out water from the pipe line trenches with oil engine driven pumpsets, including drilling of sufficient number of Filter points with necessary piping arrangements, hire charges, fuel charges and wages for Driver and Helper, DG set backup, complete	Cum		100000	
4	<b>Carting:</b> Conveyance of Earth Sand and Gravel, including loading, Unloading and Stacking for the initial lead of 0.50 km,Excluding of cost of seinorage charges on all materials	Cum		53622	
5	Cutting road surface for pipeline trenches and disposing off the excavated Stuff as directed including barricadding, danger lighting etc.,Excluding of cost of seinorage charges on all materials	Cum		60534	
6	Pipe Encasement/Supports at locations wherever necessary like locations of Culverts/Bridges/Places at minimum cover criteria is not achieved....etc.	LS			
	<b>Sub Total For Civil Works (I)</b>				
<b>II</b>	<b>MATERIALS</b>				

Sr. No.	Description	Unit	Rate in Rs	Qty	Amount in Rs
7	Supply of Glazed Stoneware pipes with necessary socket and spigot joints as per standards and lowering into trenches, laying to proper grade and alignment, cutting the pipes true to axis & jointing the pipes & specials including cost of jointing materials				
	<b>150 mm dia pipes</b>				
7.1	For 0 to 2 m depth	Rm		7208	
7.2	For 2 to 3 m depth	Rm		4617	
7.3	For 3 to 3.5 m depth	Rm			
7.4	For 3.5 to 4 m depth	Rm			
7.5	For 4 to 5 m depth	Rm			
7.6	For depths above 6 m	Rm			
	<b>200 mm dia pipes</b>				
7.7	For 0 to 2 m depth	Rm		1838	
7.8	For 2 to 3 m depth	Rm		1904	
7.9	For 3 to 3.5 m depth	Rm		0	
7.10	For 3.5 to 4 m depth	Rm			
7.11	For 4 to 5 m depth	Rm			
7.12	For depths above 6 m	Rm			
	<b>250 mm dia pipes</b>				
7.13	For 0 to 2 m depth	Rm		919	
7.14	For 2 to 3 m depth	Rm		664	
7.15	For 3 to 3.5 m depth	Rm		0	
7.16	For 3.5 to 4 m depth	Rm		0	
7.17	For 4 to 5 m depth	Rm		0	
7.18	For depths above 6 m	Rm		0	
8	Manufacture, Supply and Delivery of <b>RCC</b> Socket and Spigot Pipes Conforming to BIS 458/1988 at Ex-Factory (Rate per meter Effective Length) Excluding Transportation, Taxes & Duties.				
	<b>150 mm dia pipes</b>				
8.1	For 0 to 2 m depth	Rm		2398	
8.2	For 2 to 3 m depth	Rm		4130	
8.3	For 3 to 3.5 m depth	Rm		479	
8.4	For 3.5 to 4 m depth	Rm		149	
8.5	For 4 to 5 m depth	Rm		31	
8.6	For depths above 6 m	Rm		14	
	<b>200 mm dia pipes</b>				
8.7	For 0 to 2 m depth	Rm		3544	
8.8	For 2 to 3 m depth	Rm		5514	
8.9	For 3 to 3.5 m depth	Rm		1519	
8.10	For 3.5 to 4 m depth	Rm		362	
8.11	For 4 to 5 m depth	Rm		155	
8.12	For depths above 6 m	Rm		14	
	<b>250 mm dia pipes</b>				
8.13	For 0 to 2 m depth	Rm		3477	
8.14	For 2 to 3 m depth	Rm		2359	
8.15	For 3 to 3.5 m depth	Rm		888	
8.16	For 3.5 to 4 m depth	Rm		449	
8.17	For 4 to 5 m depth	Rm		667	
8.18	For depths above 6 m	Rm		14	

Sr. No.	Description	Unit	Rate in Rs	Qty	Amount in Rs
	<b>300 mm dia pipes</b>				
8.19	For 0 to 2 m depth	Rm		2364	
8.20	For 2 to 3 m depth	Rm		2142	
8.21	For 3 to 3.5 m depth	Rm		829	
8.22	For 3.5 to 4 m depth	Rm		124	
8.23	For 4 to 5 m depth	Rm		449	
8.24	For depths above 6 m	Rm		14	
	<b>350 mm dia pipes</b>				
8.25	For 0 to 2 m depth	Rm		2021	
8.26	For 2 to 3 m depth	Rm		2337	
8.27	For 3 to 3.5 m depth	Rm		201	
8.28	For 3.5 to 4 m depth	Rm		7	
8.29	For 4 to 5 m depth	Rm		102	
8.30	For depths above 6 m	Rm		14	
	<b>400 mm dia pipes</b>				
8.31	For 0 to 2 m depth	Rm		1219	
8.32	For 2 to 3 m depth	Rm		1120	
8.33	For 3 to 3.5 m depth	Rm		655	
8.34	For 3.5 to 4 m depth	Rm		204	
8.35	For 4 to 5 m depth	Rm		305	
8.36	For depths above 6 m	Rm		14	
	<b>450 mm dia pipes</b>				
8.37	For 0 to 2 m depth	Rm		14	
8.38	For 2 to 3 m depth	Rm		14	
8.39	For 3 to 3.5 m depth	Rm		14	
8.40	For 3.5 to 4 m depth	Rm		14	
8.41	For 4 to 5 m depth	Rm		14	
8.42	For depths above 6 m	Rm		14	
	<b>500 mm dia pipes</b>				
8.43	For 0 to 2 m depth	Rm		233	
8.44	For 2 to 3 m depth	Rm		1114	
8.45	For 3 to 3.5 m depth	Rm		180	
8.46	For 3.5 to 4 m depth	Rm		14	
8.47	For 4 to 5 m depth	Rm		14	
8.48	For depths above 6 m	Rm		14	
	<b>600 mm dia pipes</b>				
8.49	For 0 to 2 m depth	Rm		386	
8.50	For 2 to 3 m depth	Rm		760	
8.51	For 3 to 3.5 m depth	Rm		73	
8.52	For 3.5 to 4 m depth	Rm		14	
8.53	For 4 to 5 m depth	Rm		14	
8.54	For depths above 6 m	Rm		14	
	<b>700 mm dia pipes</b>				
8.55	For 0 to 2 m depth	Rm		14	
8.56	For 2 to 3 m depth	Rm		14	
8.57	For 3 to 3.5 m depth	Rm		14	
8.58	For 3.5 to 4 m depth	Rm		14	
8.59	For 4 to 5 m depth	Rm		14	
8.60	For depths above 6 m	Rm		14	
	<b>800 mm dia pipes</b>				
8.61	For 0 to 2 m depth	Rm		14	
8.62	For 2 to 3 m depth	Rm		14	
8.63	For 3 to 3.5 m depth	Rm		14	
8.64	For 3.5 to 4 m depth	Rm		14	

Sr. No.	Description	Unit	Rate in Rs	Qty	Amount in Rs
8.65	For 4 to 5 m depth	Rm		14	
8.66	For depths above 6 m	Rm		14	
	<b>900 mm dia pipes</b>				
8.67	For 0 to 2 m depth	Rm		14	
8.68	For 2 to 3 m depth	Rm		14	
8.69	For 3 to 3.5 m depth	Rm		14	
8.70	For 3.5 to 4 m depth	Rm		14	
8.71	For 4 to 5 m depth	Rm		14	
8.72	For depths above 6 m	Rm		14	
9	<b>Ventilating shafts:</b> Providing and fixing CI Soil pipe for ventilating shaft 5 m high with specials and cowl and suitable grips in CC 1:2:4 pillar using 10 mm to 20 mm graded hard granite/trap/basalt or any approved metal with 15 cm thick CC around upto 1.	Nos		9	
10	<b>House service connections with 110mm UPVC</b>	No.s		8472	
	<b>Sub Total For Materials (II)</b>				
<b>III</b>	<b>DETAILED ESTIMATE FOR SEWER APPURTENANCES</b>				
11	Construction of manholes of following sizes on sewer lines as per detailed drawing including supplying & fixing 600 mm dia FRC Manholes frame & cover & encapsulated plastic steps complete as per the specifications, including earthwork excavation on all so				
	<b>Type I - 750 x 1200 mm</b>				
11.1	Less than 0.9 m	No		538	
	<b>Type II - 900 x 1200 mm</b>				
11.2	0.90 to 1.24	No		173	
11.3	1.25 to 1.74	No		192	
11.4	1.75 - 2.24m	No		313	
11.5	2.25-2.74m	No		204	
12	Construction of circular manhole clear internal 1,500 mm dia., including earthwork excavation in all type of soils, rock, bailing of water, brick work in CM 1:3, 230mm and above thick, upto 2.5m depth and above over a bed of cement concrete in 1:3:6, Excluding of cost of seinorage charges on all materials				
	<b>Type III - 1500 mm diameter</b>				
12.1	2.75 to 4.0 m depth	No		37	
12.2	4.0 to 6.0 m depth	No		25	
13	<b>Drops to the Manholes:</b> Providing and constructing vertical drop arrangement of 0.6 m and more height as required including providing and joining special such as double T bend, required pipe fixed in CC M100 at required level as type design cutting jointing				
13.1	Verical drops upto 0.6 m height	No.		0	
13.2	Verical drops upto 1.0 m	No		6	

Sr. No.	Description	Unit	Rate in Rs	Qty	Amount in Rs
13.3	Verical drops upto 2.0 m	No		7	
13.4	Verical drops upto 3.0 m	No		5	
13.5	Verical drops upto 4.0 m	No		5	
13.6	Verical drops upto 5.0 m	No		3	
	<b>Sub Total For Maintenance equipment (III)</b>				
14	Maintanance equipment	1 Job			
15	Road Relaying	Rmt		61000	
	<b>Sub Total For Appurtenances (IV)</b>				
16	Operation and maintance of the collection network				
	1st year				
	2nd year				
	3rd year				
	4th year				
	5th year				
	<b>Sub Total For O&amp;M of Collection network (V)</b>				
17	Capex cost of STPs				
	Plant 1	MLD		6	
	Plant 2	MLD		6	
18	Operation and Maintance of STPs				
	1st year				
	2nd year				
	3rd year				
	4th year				
	5th year				
	<b>Sub Total For sewerage treatment plants (VI)</b>				
19	Lift stations including all related works				
	25 HP	No		1	
	20 HP	No		1	
	<b>Sub Total For Lift stations (VII)</b>				
<b>PART-A</b>	<b>Total Amount (I+II+III+IV+V+VI+VII)</b>				
<b>PART-B</b>	<b>Add 18 % towards GST</b>				
	<b>Grand Total</b>				
	<b>Amount in words</b>				