

ANNEXURE 1 - BOQ FOR YETIMOGA SEWERAGE SYSTEM

Sr. No.	Description	Unit	Qty	Unit Rate	Cost in Rs
A	CIVIL ITEMS				
1	Earth Work Excavation				
	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.				
1.1	For 0 to 2.0 m depth	Cum	4158.61		
1.2	Close timbering/steel in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered)				
	Depth not exceeding 1.5m	Sq.M	6557.84		
	Depth exceeding 1.5m but not exceeding 3 m.	Sq.M	106.32		
2	Sand Bedding : Sand for filling and blindage	Cum	1513.34		
3	Refilling with the excavated soils (other than sand) complying with the standard specifications for filling foundations.	Cum	2297.40		
4	Carting : Conveyance of Earth Sand and Gravel, including loading, Unloading and Stacking for the initial lead of 0.50 km	Cum	1861.21		
5	Cutting C.C road surface for pipeline trenches and disposing off the excavated Stuff as directed including barricadding, danger lighting etc.,	Cum	1135.01		
5a	For every additional 1Km 12.60/Cum/Km. Considering another 3Km	Cum	1135.01		
6	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	Hp-Hr	10000.00		

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7	Pipe Encasement/Supports at locations wherever necessary like locations of Culverts/Bridges/Places at minimum cover criteria is not achieved....etc. with Cement concrete 1:2:4 mix	Cum	211		
8	Site Development for the construction of a STP 50 X 50m	RA	50m X 50m		
Sub Total					
B	MATERIALS				
9	Supply, delivery, laying & jointing, testing and commissioning of Glazed Stoneware pipes (GSW) 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, specials and appurtnances etc., complete				
	150 mm dia pipes				
9.1	For 0 to 1 m depth	Rm	8644.40		
9.2	For 1 to 1.5 m depth	Rm	163.60		
9.3	For 1.5 to 2 m depth	Rm	37.00		
10	Supply, delivery, laying & jointing, testing and commissioning of RCC Socket and Spigot Pipes made with SRC Conforming to BIS 458/1988 (Rate per meter Effective Length) Including rubber rings Excluding Transportation, Taxes & Duties. Laying true to alignment and testing as per standard specifications etc., complete				
	200 mm dia pipes				
10.1	For 0 to 1 m depth	Rm	798.40		
10.2	For 1 to 1.5 m depth	Rm	54.00		
10.3	For 1.5 to 2 m depth	Rm	27.00		

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	250 mm dia pipes				
10.4	For 0 to 1 m depth	Rm	25.00		
10.5	For 1 to 1.5 m depth	Rm	32.00		
10.6	For 1.5 to 2 m depth	Rm	14.00		
	300 mm dia pipes				
10.7	For 0 to 1 m depth	Rm	257.40		
10.8	For 1 to 1.5 m depth	Rm	54.00		
10.9	For 1.5 to 2 m depth	Rm	47.00		
	400 mm dia pipes				
10.10	For 0 to 1 m depth	Rm	845.30		
10.11	For 1 to 1.5 m depth	Rm	44.80		
10.12	For 1.5 to 2 m depth	Rm	65.00		
	Sub Total				
C	DETAILED ESTIMATE FOR SEWER APPURTENANCES				
11	Construction of Brick Masonry Collection chambers with PCC 1:3:6 conforming to IS:383 and CM 1:3 with SRC using Burnt Bricks, of following sizes on sewer lines as per detailed drawing including supplying & fixing collection chamber frame & cover complete as per the specifications, including earthwork excavation on all				
11.1	Type I - 300 x 300 mm	No	57		
	Type II - 300 x 500 mm	No	154		
	Type II - 400 x 750 mm	No	534		

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12	Construction of Rectangular manholes made with RCC M20 with SRC 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				
12.1	Type-I, 750mm x 1200 mm (Depth upto 900mm)	No	53		
12.2	Type-II, 900mm x 1200 mm (Depth upto 1.25m)	No	7		
12.3	Type-III, 900mm x 1200 mm (Depth upto 1.25m to 1.75m)	No	9		
13	Supply, delivery, laying & jointing, testing and commissioning of House service connections with 100mm dia SWG pipes including all incidental charges etc., complete	Nos	1600		
14	Supply and delivery of Bucket cleaning machine	LS			
	Sub Total				
D	ROAD RELAYING				
15	Filling with stone crusher dust from approved quarry including cost and conveyance of sand and all labour charges for sectioning, ramming, watering etc., completed	Cum	1723		

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Sr. No.	Description	Unit	Qty	Unit Rate	Cost in Rs
16	Laying VCC 1:2:4 mix using 20mm graded SS-5 HBG m/c metal, coarse and fine aggregates conforming to IS: 383 and OPC including cost and conveyance of all materials, machinery, labour charges (including placing in position expansion, contraction, construction and longitudinal joints but excluding cost of joint filler and sealant), centering, vibration, curing for 21 days, and all incidental & operational charges etc. complete conforming to standard specification for CC pathway upto 2m wide - Unit 1 Cum	Cum	459		
17	Plain Cement Concrete (1:4:8) mix using 40mm Size Hard Granite Metal with Concrete Mixer, all work up to Plinth level (Unit = 1 Cum)	Cum	345		
18	Supply of precast concrete blocks for paving of M-35 grade and thickness not less than 60mm for medium traffic areas conforming to IS15658:2006 in all shapes and designs as per the manufactures specification BMT-D-28	Sq.m	1378		
	Sub Total				
	Total Estimated Cost of Sewerage Network				
D	SEWERAGE TREATMENT PLANT				

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Sr. No.	Description	Unit	Qty	Unit Rate	Cost in Rs
19	Design, supply, construction, installation of Sewage Treatment Plant(STP) (Package Type) suitable for treating 2 MLD (Million Litres per Day) of sewage, complete in all respects on turnkey basis including design and construction of structures for various units, supply and installation of mechanical, electrical equipment, instruments along with all piping works and other connected works required to provide complete operable plant including testing & commissioning the plant and trial running of the plant for a period of 6 months.		2 MLD		
	Total Estimated Cost including STP				