ISLAMPUR MUNICIPAL COUNCIL, ISLAMPUR; DIST; - SANGLI



DETAIL PROJECT REPORT FOR UNDERGROUND SEWERAGE SCHEME

March - 2012

EXECUTIVE SUMMARY

- 1.0 The Islampur Municipal Council has awarded the work of preparation of Detailed Project Report, Detailed Engineering and Design of the sewerage scheme for Islampur Town and Detailed Estimation of the Project to M/S. Kikale Associates, Consulting Engineers, Baramati, Pune.
- 2.0 The survey of the Islampur town is carried out and accordingly sewerage system has been designed based on the Manual on sewerage and sewage treatment published by CPHEEO and also as per the guidelines MSNMA.
- Islampur is an important town in Sangli district of Maharashtra State. It is situated at 3 Km to the east of Peth Naka situated on the Mumbai Bangalore National Highway (NH-4). The district head quarter Sangli is about 40 Kms away to East of Islampur town and is connected by the Peth-Sangli State Highway (SH-138) The nearest railway station is Takari 15 kms away to North-East and then Karad railway station which is 40 kms away to North West both on the south central Railway, Islampur town itself lies in the North longitude of 10-3 and East latitude of 74-4.. The area covered by Islampur Municipal Council area is 2224.7 Ha. The population of Islampur town is 58330 as per 2001 census and the population Projected for the year 2042 is 147711 souls. At present Islampur town gets water from Krishna river .The water is supplied at a rate of 135 lpcd.
- 4.0 The details of the proposed underground drainage scheme are as follows:
 The Islampur town is divided into four main drainage zones with ridge running in south east direction almost from middle of the town. It is proposed to provide two major STP's STP-1 of 6.7mld capacity for North West area and STP-2 of 4.1mld for south east area. The gross cost of the proposed sewerage system is
 Rs.
 6516.791 Lakhs.
- **5.0** Environmental Impact Assessment: Project Component consists of collection system, Pumping station, pumping main and sewage treatment plants. As the pipes are to be laid in Municipal or Highway Roads, no land acquisition is required.

All the proposed locations of pumping stations and S.T.Ps are decided in coordination with Municipal Council officials and it is understood that there would be no problem in undertaking of land.

Implementing agency should carry out the works in co-ordination with other related organizations (viz) Traffic Police, Public Works Department and other Local Body Authorities and in accordance with code of conduct.

6.0 The details of the proposed underground sewerage scheme are as follows:

1) Population

Year	Population	Wastewater flow (mld)
2014	71668	7.74
2029	94512	10.207
2044	124344	13.429

2) Collection System

Total length = 98 Km

Diameter = 150 mm to 800 mm

Pipe material = RCC NP2, NP3 and NP4 pipes

3) Rising Main

SR No.	Description	P.S.1	P.S.2	P.S.3	P.S.4
a)	Diameter	400 mm	150mm	350mm	150mm
b)	Length	50 m	540 m	50 m	1650 m
c)	Material	D.I k9 pipe	D.I k9 pipe	D.I k9 pipe	D.I k9 pipe

4) Pumping Machinery

Description	P.S.1	P.S.2
a) Pumps (1DWF)	Submersible pumps	Submersible pumps
Discharge (lps) Head in m H. P Nos	76.56 10 20 2W+1S	47.3 16 20 2W+1S

b) (½DWF)	Submersible pumps	Submersible pumps
Discharge (lps)	38.28	23.65
Head in m	10	13
H.P	10	10
Nos	1W+1S	1W+1S

5) Sewage Treatment Plants

Description	STP 1	STP 2
Capacity	6.7 mld (Phase – 1)	4.1 mld (Phase – 1)
Туре	SBR Technology	SBR Technology

Current Status

The project is submitted to Government of Maharashtra. Technical scrutiny is completed.

ISLAMPUR UNDERGROUND SEWERAGE SCHEME

SUMMARY OF COST

Sr. No.	Name of Subwork	Amount in Rs.
1	Working Survey	100000.00
2	Sewage Collection System	396342707.00
3	Sewage Pumping Station No1	
3A	Civil Works	2409226.00
3B	Mechanical & Electrical Works	8825609.00
3C	Rising Main For PS-1	630818.00
4	Sewage Pumping Station No2	
4A	Civil Works	503620.00
4B	Mechanical & Electrical Works	6166836.00
4C	Rising Main For PS-2	1403137.00
5	Sewage Pumping Station No3	
5A	Civil Works	2737140.00
5B	Mechanical & Electrical Works	8250278.00
5C	Rising Main For PS-3	520335.00
6	Sewage Pumping Station No4	
6A	Civil Works	505870.00
6B	Mechanical & Electrical Works	6194266.00
6C	Rising Main For PS-4	3949240.00
7A	Sewage Treatment Plant(STP1-6.7mld)	69517597.00
7B	Sewage Treatment Plant(STP2-4.1mld)	53537766.00
8	Miscellaneous Works	1411290.00
	Total	563005735.00
	Add cess for labour walfare (1%)	5630057.35
	Add Escalation Charges (10%)	56300574.00
	Add Preparation Charges (1%)	5630057.35
	Add Technical Sanction Charges (0.25%)	1407514.34
	Add P.M.C. Charges (3.50%)	19705200.73
	Cost of the Scheme	651679139.00