

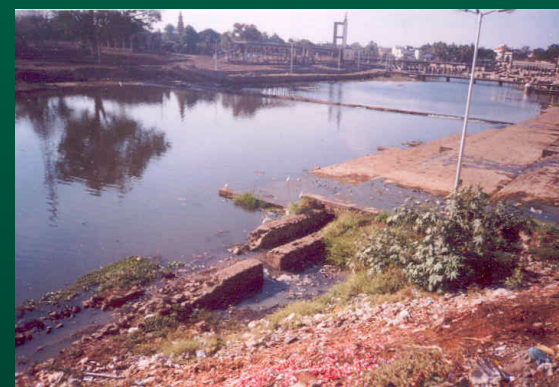
Existing Environmental Scenario

1. Sewerage and sanitation Scheme :

- Lack of underground sewerage system, Existing sewage disposal is through septic tanks.
- Sullage collection network through open gutters in town & disposal at Indrayani river bank through incomplete U/G drainage system
- Individual sanitation facilities : Only 30% of the total households
- Poor public sanitation facilities for pilgrims
- **The present load of sewage is @ 2.5 MLD and Sullage -1.7 MLD. No treatment.**

Key Environmental Issues :

- Increased health & ground water pollution risks due to seepage of untreated sewage in the ground & through nallah into the Indrayani River
- Increased risk of epidemics during fairs & festivals
- **River water unfit for holy bathing due to pollution**



Existing Sanitation Facility

Type	Number
Individual facilities	1365 (30%)
Public toilets	6 toilet blocks with 88 units
Public urinals	6 urinal blocks with 15 units

Types of Drains in Alandi

Type of drains	Length in Km
Open drains	25
Closed drains	15
Underground drains	10
Total drain length	50



Existing Environmental Scenario

2. Solid Waste Management

- The major sources of MSW (5MT/D) include the waste generated at religious establishments
- Inadequate primary collection system
- Existing MSW dumping site at `Vishrant vad` – the holy place, is inadequate (1500 m²) & not meeting MSW landfill sitting criteria

Key Environmental Issues

- Lack of public awareness
- Poor collection system & Unscientific disposal along the riverbanks and roadsides leads to chocking of drainages & poor aesthetics
- Poor collection posing threats to public health.
- Air pollution due to burning of waste



Solid Waste Generation in Alandi

Source of Waste Generation	Quantity (MT/day)	Total %
Samadhi Temple complex	0.5	10.0
Households	1.5	30.0
Hotels (Dharmashala), restaurants and commercial establishments	1.5	30.0
Vegetable markets	0.5	10.0
Street sweepings, drain de-silting and others	1.0	20.0
Hospital waste (non-infectious and non-hazardous)	0.004	0.1
Total	5.0	100.0



Details of Solid waste disposal sites in Alandi

Location	Type of Disposal	Approx. Area (sq. m)	Distance from town	Year of Commissioning
Vishrantvad (Grazing land of Charholi Khurd village)	Land disposal	1500	1 km	2002
Padmavati road (Slum)	Land disposal	900	Within town	1985
Near Crematorium (on RT. bank of river, Nr. Old Bridge)	Land disposal	700	Within town	Used only for 1 year in 2002



Salient Features of Solid Waste Management System in Alandi

Item	Details
Est. Quantity (@ 280g PCPD) of waste generation TPD	5
Quantity of waste collected, tons/day	3.5
Collection Efficiency, %	70
Frequency of waste collection	Daily
Sanitary manpower	
Sweepers	14
Sanitary Inspector	0
Drivers	2
Contract Staff	35
Equipment	
Trucks	1
Tractors	1
Push carts	15
Dust bins	100
Method of Disposal	Dumping in low land area
Area of Site 1	1500 Sq. m.



Solid Waste Management Performance Indicators

Indicator	Norm	Existing Service Levels
Waste Collection Performance	90-95%	70%
Vehicle Capacity Adequacy Ratio	30% of total waste generation	100%
Spacing of Dust Bins	100 m	150 – 200 m (Av. 180m)
Road Length per Sweeper	400 –600 m	900 m
Conservancy staff per 1000 population	3	2 (51 for 17565 + 8000 persons)



Existing Environmental Scenario

3. Water supply

- Water supply from the Alandi Dam U/S of town on the Indrayani River (storage capacity -0.769 MCM) & the scheme is functional from 1981
- WTP of 1.68 MLD is located near the Alandi Dam.
- The U/G piped network (@ 50000 meters) of drinking water supply caters 30% households.
- 40 public taps cater to Water demand of devotees and general public

Key Environmental Issues

- The distribution network is old and its condition needs to be re-assessed.
- Poor state & maintenance of WTP
- Temple & Dharmashala's are mostly ground water dependent



Alandi Weir



Water Treatment Plant



ESR Markal Road



Water Supply Overview

Description	Units	Values
Overhead Tanks / GLSR		2/1
Total Storage Capacity		9.88 lakh litres
Daily water Supply		1.65 MLD
Length of Distribution Network		Approximately 25 km
Duration of Water Supply (Normal Season)		6.00am to 9.00am 4.00 pm to 6.00 pm
House Connections		1723
Total area of Alandi	Sq. km	6.84
Total no. of households	No.	4383
Households covered by house service connections	No	1327
Percentage of households served by house service connections	%	30
Ground Water Use		15,000 to 20,000 Ltrs

