ENVIRONMENT STUDY OF BARSHI TOWN

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Abstract - The environment study for town is important as development of Barshi town, this deals with status of environment, responses towards protection of environment. This paper deals with geographical set up, land use, water supply management, solid waste management, air pollution, noise pollution. This parameter affect directly or indirectly human health which plays important role in day today life. There is problem of water born disease as per previous year report quality of water supplied are a concerned areas, solid waste dump problem in public places, demolition waste dump in public places. Open defecation is problem in Barshi town resulting in un hygienic condition and health issue. Waste dumping in gutter cause choke up problem mainly in slum areas. Paper aim is understanding present situation of environmental challenge with overcome them.

Key Words: Environment, air pollution, noise pollution, town.

1. INTRODUCTION

Barshi is a town, located in Maharashtra, state Solapur District in India. Taluka Barshi it is 65 km away from Solapur. Barshi is railway station, major land use in Barshi is agriculture. Barshi is known as trade centre it touches state highways SH 5 by Akalkot, SH 60 connects Latur. Notable industries are there in Barshi, two textile mill and no of dall mills are there in Barshi. The town is historical important places Hemadpanthi Bhagwant temple.

1.1 Parameter of Environment

1.1 Air quality

Air quality has done by municipal council about 30 location in which 29 for residential place and 1 industrial place. The SPM, SO2, NOx concentration measured, SPM concentration is high in central part of city reason may traffic. SPM level is high at ST stand and market yard.

1.2 Noise

Noise level also measured on 30 places same as air ambient as all zone are residential level noise level is with in permissible limit

1.3 Water Quality

Water quality is test from different 30 location. The testing done in summer and winter, potable water is assessable, pH, total dissolved solids, total hard ness sulphate, turbidity, nitrates every parameter in permissible limit, standard compare with IS:10500, low concentration of chloride, hard ness shows highly drinkable water, absence of coliform, tap water was not checked. In Barshi Subhash Nagar about 90-100 acre lake is there in excess algae growth and water vegetation observed so that cause fish death in lake.

1.4 Land

Land is important resource in Barshi mainly depends upon agriculture. Soil test is done in 10 different location, it observed that especially in built up area encroachment. Designated use of open land.

1.5 Flora and fauna

Barshi is about 18-20 km away from wild life sanctuary Maldhok, Nannaj forest is tropical thorn tree found are tarwad, henkal, dongri etc. the common fauna Indian fox, jackal etc.

1.6 State and Pressure-infrastructure

Urban infrastructure generally own by operated by municipalities such as water supply, transport, sewer etc. in Indian cities faces challenge of growth and management its not exceptional. Poor management of increased growth cause problem to development.

2. Water Parameter

2.1 Water supply

Main source of water for town is Ujani Dam, which is about 61 km away from Barshi. Daily requirement of water is 13.70 mld.
2.2 Water treatment plant (WTP)

The treatment plant is about 29.5 MLD where as requirement is 13.60 MLD as per 2001 census water supply is limited for 1 hour 85 lit which is sufficient.

ESR (elevated storage tank)

Total capacity of ESR of 6.75. MLD capacities three additional Esr are constructed

2.3 Distribution network

90% network are connect with the help of pipe water supply. remaining areas were proposed.

2.4 Pressure on water supply

Water is supplied 90 lpcd which is less than standard of 135, observation tell that it is sufficient

2.5 Sanitation, sewer, and sewage treatment

There is no under ground drianage sytem . 66km gutter is connected houses and then lendhi nala.

2.6 Pressure on Sanitation and sewage

Sanitation problem resulting open defecation. issue of sanitation cause worst problem as increase in population sewage test has been taken it is below 80mg/l and hence require treatment

2.7 Solid waste management

Town generate 46 tone of solid waste daily basis per person waste generation 439g per day. which is more than 400g per person.

3. Environment important parameter

3.1 Transportation and Storm Water drainage

Three type of road in barshi

- Concrete road-10km
- Tar road-Approx 74.5km
- Kuchha Road-9.8km

Storm drain system parallel to road about 65%

3.2 Social infra structure

It consist of hospital, recreation space, education facilities etc.

3.3 Hospitals

Health care facilities there are two government hospital and four big private. people having national and state level programme for water born dieses

3.4 Open spaces

As per development plan department for barshi town 18ha area for Grden and play ground but bashi has only 0.65 ha play ground .major space are bhagyant ground and sankeshwar udyan and private are shivshati maidan,barshi college ground and pevellion ground.

4. Impact and risk

Impacts on environment and people are identified on study of resources services.

- Provision of sanitation facilities
- Lack of gardening and space
- Development of road (widing of road)
- Underground sewerage sytem

4.1 Impact of air pollution

It effects plants, animal and human health it may also effect biological cominity

It may cuse due to

- Leak in water distribution
- Open defection
- Solid waste dump

4.2 Impact of air pollution

High lavel of NOX, SOX, SPM and hydrocarbon cause diseases like asthma and cardiovascular diseases, it may loss visibility, danmage of material may ooccur.

Since barshi air is good for health but as time passes it should have controlled traffic.at present there is no present statical report of air pollution for barshi.

CONCLUSION

Land degradation results change in land use.land degraded due untreated sewage

High priority

- Provision of individual to build the latrine and public sanitation facilities.
- Designing of construction of sewer – centralized and decentralized option
- Provision of sewage treatment facility
REFERENCES


