



Water Quality Analysis of Ghansawangi in Jalna district

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ABSTRACT

Physical, Chemical and bacterial analysis of water from different sites of ghansawangi revealed that surface water.

Key words: MPN(most probable number),ppm(parts per million), Ghansawangi

INTRODUCTION

What is essential for sustaining life. It place Central role in the ground environmental health of the cities and towns. People depend on water for more than just drinking ,cooking and personal hygiene.

Pure water is never found in natural streams, lakes, oceans or under the ground as it has always some dissolved or suspended impurities within it. The degree of impurity or contamination depends upon the type and concentration of impurities as well as on the intended use of water.

The treatment of water is required for number of reason of which the removal of germs causing diseases is the most important.

The portable water should be free from unpleasant taste, odour and should have a good appearance.

MATERIAL AND METHODS

Water samples were connected from different sites of ghansawangi surface area. Kerala taken in collection carries and time lapse between collection and testing of samples.



So that the parameters found out in laboratory were true representative of the water quality of the Ghansawangi surface area.

The water samples were tested for colour ,odour, turbidity(Nephelometer) ,hardness pH values(pH meter) ,total solids, chlorine content , alkalinity and microbial analysis(SKAUST-K).

RESULTS AND DISCUSSION

Water samples collected from different sites of ghansawangi surface area had values of physico-Chemical parameters different from normal values (table 1).

TABLE 1

Physico-chemical parameters of water samples

Sr.no	parameters	Codal values	Sample values
1	Colour	6 to 20 pt-co scale	colourless
2	Odour	unobjectionable	-
3	Turbidity	Upto 12 ppm	10.4ppm
4	Hardness	Upto 700 mg/L	540mg/L
5	pH value	5.9 -9.9	7.8
6	Alkalinity	5.5-15 ppm	14 ppm
7	Total solids	Upto 1400	7500 ppm



TABLE 2: Microbial analysis of water samples collected from different sites.

Sr.no	Tests	Sample values
1	MPN of coliforms	89/100ml
2	MPN of faecal streptococci	47/100 ml
3	Types of coliforms present	E.coli.

Microbial analysis revealed that water is moderately contaminated and needs proper treatment before supply to the community (table 2).

REFERENCES

- 1 IS-10500-1983 specification for drinking water.
2. Laboratory manual for chemical and bacterial analysis of water.
3. Water supply engineering by Dr. P.N. Modi
4. Water supply and sanitary engineering by S.K. Hussain