SHIMLA JAL PRABHDHAN NIGAM LTD.

TEST REPORT

Report No.	LSWW for Shimla city
Name and address of sender	Koti Bharandi (Been Nala)
Division	Water distribution division
Sub-division	Sanjauli
Name of scheme and location of source	W.T.P. Ashwanikhad
Date and time of collection	13-10-2022 at 11:00 AM
Date and time of receipt at laboratory	13-10-2022 at 11:15 AM
Date and time of commencing	13-10-2022 at 11:30 AM
Type of sample	Filter water
Quantity of sample	500 ml
Date of reporting	13-10-2022
Testing protocol	**IS 10500:2012**

A. PHYSICAL TESTS

S.no.	Tests	Acceptable limit	Permissible limit in the absence of alternate source	Result of sample
1.	Temperature (^{o}C)			**12.6^{o}C**
2.	Turbidity [NTU]	1	5	**4.83 NTU**
3.	Conductivity (µS)			**150.6 µs**
4.	Total Dissolved Solids (Mg/L or ppm)	500	2000	**103.8 ppm**
5.	Color (Hazen)	5	15	**101 Pt/Co(Hz)** (Range:25-1000 Pt/Co(Hz)
6.	Odour	Agreeable	Agreeable	**No odour**
7.	Taste	Agreeable	Agreeable	**Normal**

B. CHEMICAL TESTS

S.No.	Tests	Acceptable limit	Permissible limit in the absence of alternate source	Result of sample
1.	pH value	6.5-8.5	No relaxation	**7.28**
2.	Total Alkalinity (Mg/l)	200	600	**30 mg/l**
3.	Chlorides (Mg/l)	250	1000	**9.759 mg/l**
4.	Total Hardness (Mg/l)	200	600	**60 mg/l**
5.	Residual Chlorine (Mg/l or ppm)	0.2	1.0	**3.0 ppm at w.t.p.**
6.	Nitrate (Mg/l)	45	No relaxation	**Underrange** (Range; 0.3-30.0 mg/l)
7.	Iron (Mg/l)	0.1	1.0	**0.03 mg/l** (Range; 0.01-2.00 mg/l)
8.	Fluoride (Mg/l)	1.0	1.5	**0.29 mg/l** (Range; 0.08-2.00 mg/l)
9.	Sulphate (Mg/l)	200	400	**10.7 mg/l** (Range; 1.0-25.0 mg/l)
10.	Manganese (Mg/l)	0.1	0.3	**0.02 mg/l** (Range; 0.05-6.00 mg/l)

C. BACTERIOLOGICAL TESTS (MPN/100)

Note:- Bacteriological tests are under incubation of 48 hours.

C. BACTERIOLOGICAL TESTS (MPN/100)

- **Date of collection of sample:-11**-10-2022
- **Date of commencing:- 11-**10-2022
- **Date of Reporting:- 13**-10-2022 (after 48 hours of incubation)

After 24-48 hours of incubation, the MPN in 100 ml of water sample:-

Sample	Volumes of sample		MPN for 100 ml
	50 ml	10 ml	
Filter water	0	0	0

- **Coli form count should be zero in any sample of 100 ml of water entering the distribution system.**

Chemist

Water testing laboratory

Ashwanikhad