

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	03-12-2025 at 11:00 AM
Date and time of receipt at laboratory	03-12-2025 at 11:15 AM
Date and time of commencing	03-12-2025 at 11:30 AM
Type of sample	Raw water
Quantity of sample	500 ml
Date of reporting	03-12-2025
Testing protocol	IS10500:2012

A. PHYSICAL TESTS

S.no.	Tests	Acceptable limit	Permissible limit in the absence of alternate source	Result of sample
1.	Temperature (° C)			4.1° C
2.	Turbidity [NTU]	1	5	0.46 NTU
3.	Conductivity (µS)			87.9 µs
4.	Total Dissolved Solids (Mg/L or ppm)	500	2000	61.6 ppm
5.	Color (Hazen)	5	15	Underrange (Range:25-1000 Pt/Co(Hz))
6.	Odour	Agreeable	Agreeable	No odour
7.	Taste	Agreeable	Agreeable	—

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	7.99
2.	Total Alkalinity (Mg/l)	200	600	45 mg/l
3.	Chlorides (Mg/l)	250	1000	14.366 mg/l
4.	Total Hardness (Mg/l)	200	600	50 mg/l
5.	Residual Chlorine (Mg/l or ppm)	0.2	1.0	—
6.	Nitrate (Mg/l)	45	No relaxation	10 mg/l (Range; 0.3-30.0 mg/l)
7.	Iron (Mg/l)	0.1	1.0	0.02 mg/l (Range; 0.01-2.00 mg/l)
8.	Fluoride (Mg/l)	1.0	1.5	0.85 mg/l (Range; 0.08-2.00 mg/l)
9.	Sulphate (Mg/l)	200	400	14.8 mg/l (Range; 1.0-25.0 mg/l)
10.	Manganese (Mg/l)	0.1	0.3	Underrange (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:-01-12-2025**
- **Date of commencing:- 01-12-2025**
- **Date of Reporting:- 03-12-2025 (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	
Raw water	1	4	16

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

Chemist

Water testing laboratory

Ashwanikhad

