

# 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	14-05-2024 at 11:00 AM
Date and time of receipt at laboratory	14-05-2024 at 11:15 AM
Date and time of commencing	14-05-2024 at 11:30 AM
Type of sample	Filter water
Quantity of sample	500 ml
Date of reporting	14-05-2024
Testing protocol	IS 10500:2012

### A. PHYSICAL TESTS

S.no.	Tests	Acceptable limit	Permissible limit in the absence of alternate source	Result of sample
	Temperature (°C)			15.1 °C
2.	Turbidity [NTU]	1	5	0.48 NTU
3.	Conductivity (µS)			121.6 µs
4.	Total Dissolved Solids (Mg/l or ppm)	500	2000	85.3 ppm
5.	Color (Hazen)	5	15	Underrange (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	8.37
2.	Total Alkalinity (Mg/l)	200	600	45 mg/l
3.	Chlorides (Mg/l)	250	1000	10.820 mg/l
4.	Total Hardness (Mg/l)	200	600	65 mg/l
5.	Residual Chlorine (Mg/l or ppm)	0.2	1.0	1.0 ppm 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	Underrange (Range; 0.01-2.00 mg/l)
8.	Fluoride (Mg/l)	1.0	1.5	0.86 mg/l (Range; 0.08-2.00 mg/l)
9.	Sulphate (Mg/l)	200	400	12.7 mg/l (Range; 1.0-25.0 mg/l)
10.	Manganese (Mg/l)	0.1	0.3	0.01 mg/l (Range; 0.05-6.00 mg/l)



Chemist

Water testing laboratory

Ashwani khad

