

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	18-06-2024 at 11:00 AM
Date and time of receipt at laboratory	18-06-2024 at 11:15 AM
Date and time of commencing	18-06-2024 at 11:30 AM
Type of sample	Filter water
Quantity of sample	500 ml
Date of reporting	18-06-2024
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)			27.2 °C
2.	Turbidity [NTU]	1	5	4.48 NTU
3.	Conductivity (µS)			145.9 µs
4.	Total Dissolved Solids (Mg/l or ppm)	500	2000	102.1 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	8.27
2.	Total Alkalinity (Mg/l)	200	600	40 mg/l
3.	Chlorides (Mg/l)	250	1000	12.804 mg/l
4.	Total Hardness (Mg/l)	200	600	66 mg/l
5.	Residual Chlorine (Mg/l or ppm)	0.2	1.0	3.0 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

