



# TESTING AND CALIBRATION

## LABORATORY PVT. LTD.

Doc. No.: METCLPL/FF/48

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**Lab.:** Harbanswala, Telpur Chowk, Shimla Bypass Road,  
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### TEST REPORT

<b>Issued To:</b> M/s Lucky Construction, Vill.- Pala, Post- Barsu, Tehsil-Bhatwari, Uttarkashi (U.K.)	<b>Report No.:</b> METCLPL/DDN/09052025/12 <b>Sample Id:</b> 090525/12 <b>Date of Receipt:</b> 09/05/2025 <b>Date of performance of Testing:</b> 09-13/05/2025 <b>Date of Issue of Report:</b> 14/05/2025
<b>Description of Sample:</b> Ground Water <b>Sample Quantity:</b> 2 ltr. <b>Sample Condition:</b> Receipt as OK <b>Sample Plan &amp; Sampling Method:</b> N/A. <b>Environment Condition (Temp. &amp; Humidity):</b> $25.0^{\circ}\pm 5^{\circ}\text{C}$ & N.A. <b>Addition to, Deviation or Exclusion from the Method:</b> NA	<b>Source:</b> Borewell <b>Sampling Period:</b> 08/05/2025 (1:02 PM) <b>Test Performed at:</b> Lab
<b>C.B. No.:</b> 14/U-PREPARE/10(2)/BR/RFB-IR/UPREPARE/2024 <b>N.O.W.:</b> CONSTRUCTION OF 80M SAPN PEDESTRIAN BRIDGE AND ITS APPROACH ON PAITHANI GARKOT BRIDLE ROAD IN DISTRICT CHAMOLI, UTTARAKHAND.	
<i>Requirement as per IS: 10500-2012 RA:2018, IS – 2296 &amp; IS-456</i>	

S.No.	Characteristics	Test -Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test	Conformity
1	Colour Hazen Unit	2	5 Max.	15 Max.	IS-3025(P-4)-2021	Yes
2	Odour	Agreeable	Agreeable	Agreeable	IS-3025(P-5)-2018	Yes
3	Taste	Agreeable	Agreeable	Agreeable	IS-3025(P-7-8)-2017	Yes
4	Turbidity, NTU	0.4	1 Max.	5 Max.	IS-3025(P-10)-2023	Yes
5	pH Value	7.28	6.5 – 8.5	No Relaxation	IS-3025(P-11)-2022	Yes
6	Total Hardness (as $\text{CaCO}_3$ ), mg/l	171	200 Max.	600 Max.	IS-3025(P-21)-2009 RA: 2019	Yes
7	Iron (as Fe), mg/l	0.19	0.3 Max.	No Relaxation	IS-3025(P-53)-2003 RA: 2019	Yes
8	Chloride (as Cl), mg/l	31.10	250 Max.	1000 Max.	IS-3025(P-32)-1988 RA: 2019	Yes
9	Total Dissolved Solids, mg/l	372	500 Max.	2000 Max.	IS-3025(P-16)-2023	Yes
10	Sulphate (as $\text{SO}_4$ ), mg/l	24.1	200 Max.	400 Max.	IS-3025(P-24)-1986 RA: 2019	Yes
11	Total Alkalinity ( $\text{CaCO}_3$ ), mg/l	62.0	200 Max.	600 Max.	IS-3025(P-23)-2023	Yes
12	Calcium (as Ca), mg/l	48.1	75 Max.	200 Max.	IS-3025(P-40)-1991 RA: 2019	Yes
13	Magnesium (as Mg), mg/l	12.0	30 Max.	100 Max.	IS-3025(P-46)-2023	Yes
14	Residual Free Chlorine.	Nil	0.2 Max.	1.0 Max.	IS-3025(P-26)-2021	Yes
15	Fluoride as f, mg/l	0.20	1.0 Max.	1.5 Max.	IS-3025(P-60)-2008 RA: 2019	Yes
16	Nitrate as $\text{NO}_3$ , mg/l	7.2	45 Max.	No Relaxation	IS-3025(P-34/ Sec-1) 2023	Yes
17	Manganese, mg/l	<0.01	0.1 Max.	0.3 Max.	IS-3025(P-59) 2023	Yes
18	Aluminum (as Al), mg/l	BDL(DL-0.03)	--	--	APHA-22 <sup>nd</sup> ED/2012	Yes



Mr. Rahul Rohilla (Q.M./T.M.)

Authorized Signatory

Reviewed By

*NARESH CHAMOLI*  
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Environment Expert  
EPAU PWD (U-PREPARE)

1. The result listed refer only to the tested samples and applicable parameters endorsement of product is neither inferred nor implied.  
 2. Total liability of our Lab. is limited to the invoiced amount.  
 3. Samples will be destroyed after 30 Days from the date of issue of test report.  
 4. This report is not be reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be used in any



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## TEST REPORT

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Report No.: METCLPL/DDN/09052025/12

S.No.	Characteristics	Test -Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test	Conformity
19	Anionic Detergents (MBAS)	BDL(DL-0.04)	0.2	1.0	APHA 22 <sup>nd</sup> Edition 5540C	Yes
20	Boron (mg/l)	BDL(DL-0.10)	0.5	1	IS: 3025(P-57) -2005	Yes
21	Copper( as Cu)	BDL(DL-0.02)	0.05	1.5	IS: 3025(P-42) -2003	Yes
22	Potassium as K, mg/l	13.1	--	--	IS-3025 Part 45:1993	Yes
23	Phenolic Compound (asC <sub>6</sub> H <sub>5</sub> OH), mg/l	<0.001	0.001	0.002	IS: 3025(P-43)	Yes
24	Cyanide (as Cn)	BDL(DL-0.001)	0.05	No Relaxation	IS: 3025(P-45)-1993	Yes
25	Mineral Oil	BDL(DL-0.05)	0.5	No Relaxation	Clause 6 of IS:3025 (P-39)	Yes
26	Hexavalent Chromium (VI) mg/l	BDL(DL-0.004)	0.05	No Relaxation	IS: 3025(P-52)-2003	Yes
27	Selenium (as Se) (mg/l)	BDL(DL-0.04)	0.01	No Relaxation	IS: 3025(P-56)	Yes
28	Zinc (as Zn)	17	5	15	IS: 3025(P-49) -1994	Yes
29	Arsenic (as AS)	BDL(DL-0.01)	0.01	0.05	IS: 3025(P-37) -1988	Yes
30	Cadmium( as CD)	BDL(DL-0.001)	0.003	No Relaxation	IS: 3025(P-41) -1992	Yes
31	Mercury ( as Hg) (mg/l)	BDL(DL-0.01)	0.001	No Relaxation	IS: 3025(P-48)/Mercury analyser.	Yes
32	Lead(pb)	BDL(DL-0.02)	0.01	No Relaxation	IS 3025 (P-47)	Yes

### Bacteriological Tests

S.No	Characteristics	Test Value	Acceptable Limit	Method of Test	Conformity
33	Total Coliform Organisms	Absent	Shall not be detectable in 100 ml, sample	IS-1622-1981	Yes
34	E.Coli	Absent	Absent	IS-1622-1981	Yes

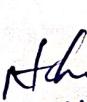
Note: 1. The Above Test refers only to the Items tested.

2. Statement of Conformity & Decision Rule (In case of Borderline): N.A.

3. Opinion & Interpretations: N.A.

4. NA stands for Not Applicable, BDL stands for Below Detected limit & DL stands for Detection Limit.

**\*\*\*\*\*End of Report\*\*\*\*\***

  
**NARESH CHAMOLI**  
 Environment Expert  
 FPIU PWD (U-PREPARE)  
 Dehradun



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