



TEST REPORT

Sample Number:	SGTH/COOL /W/01	Report No.:	20260404SGTH-008
Issued To:	M/s. LOFENT INDIA LIFE. Do Muhani Road Near Mouni Baba Mandir Kagalnagar Rupnagar Sonari Jamshedpur Jharkhand - 831011.	Format No.:	4.56 F-01
		Party Reference No.:	NIL
		Reporting Date:	04/04/2026
		Period of Analysis:	25/03/2026
		Receipt Date:	24/03/2026
Sample Description:	PACKING WATER	Sampling Date:	24/03/2026
Sampling Location:	Jharkhand	Sampling Type:	Nil
Sampling & Analysis Protocol:	IS-14543 : 2024	Preservation:	Refrigerated
Sample Collected by:	Mr. Gaurav Kumar Sharma	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

TEST RESULTS

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S.N	Parameter	Unit	Test-Method	Result	Requirement As Per IS:14543 : 2024
A.) PHYSICAL PARAMETERS.					
1	Colour, true colour units,	-	3025 (part 4)	1.04	2.0 Max
2	Odour,	-	3025 (part 5)	Agreeable	Agreeable
3	Taste,	-	3025 (part 8)	Agreeable	Agreeable
4	Turbidity, NTU,	-	3025 (part 10)	1.16	2.0 Max
5	Total dissolved solids,	mg/l	3025 (part 16)	95.2	500.0 Max
6	pH (at 25 °C)	-	3025 (part 11)	8.5	6.5 to 8.5
7	Total Hardness ca (as CaCo3),	mg/l	IS: 3025-(P-40)-1991	86.4	200.0 Max
8	Conductivity	mg/l	ASTM D1125 - 14	0.01	-
B.) CHEMICAL PARAMETERS.					
1	Barium (as Ba),	mg/l	Annex F orts 13428 IS 15302	0.28	1.0 Max
2	Copper(as Cu),	mg/l	IS 3025(Part 42)	0.031	0.05 Max
3	Iron(as Fe),	mg/l	IS 3025(Part 53) & IS 15303	0.041	0.1 Max
4	Manganese(as Mn),	mg/l	Clause 35 of IS 3025	0.038	0.1 Max
5	Nitrate (as NO ₃),	mg/l	IS 3025 (Part34)	0.29	45.0 Max
6	Nitrite(as NO ₂),	mg/l	IS 3025 (Part34)	0.01	0.02 Max
7	Fluoride(as F),	mg/l	Clause 23 of IS 3025	0.48	1.0 Max
8	Zinc (as Zn),	mg/l	IS 3025 (Part39)	2.68	5.0 Max
9	Silver (as Ag),	mg/l	Annex J of IS 13428	0.006	0.01 Max
10	Aluminium (es Al),	mg/l	IS 3025(Part55) or IS 15302	0.019	0.03 Max
11	Chloride (as Cl),	mg/l	IS 3025 (Part 32)	102.4	200.0 Max
12	Selenium (as Se),	mg/l	IS 3025(Part56) or IS 1530	0.006	0.01 Max
13	Sulphate (as SO ₄),	mg/l	IS3025 (part 24)	101.8	200.0 Max
14	Alkalinity(as HCO ₃),	mg/l	IS3025 (part 23)	86.5	200.0 Max
15	Oxidation Reduction Potential (ORP)	-MV	STP/SGTH	-350.0	-
16	Calcium (as Ca),	mg/l	IS3025 (part 40)	34.8	75.0 Max

Reviewed By

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S. Singh

Authorised Signatory
Tech Manager



TEST REPORT

S.N	Parameter	Unit	Test-Method	Result	Requirement As Per IS:14543 : 2024
16	Magnesium (as Mg),	mg/l	IS3025 (part 46)	11.2	30.0 Max
17	Sodium (as Na),	mg/l	IS 3025(part 45)	104.6	200.0 Max
18	Potassium (K)	mg/l	STPSGTH/018/07	7.0	1.0 to 10.0
19	Residual free chlorine,	mg/l	IS 3025(part 26)	0.042	0.2 Max
20	Ammonia	mg/l	IS:3025(Part-34)1988	0.12	-
21	Cyanide	mg/l	STPSGTH/024/01	BDL	-
22	Boron	mg/l	STPSGTH/021/08	BDL	-
23	Boromate	mg/l	STPSGTH/018/02	BDL	-
24	Silica	mg/l	STPSGTH/029/02	8.0	5.0 to 25.0
25	Total Organic Carbon	mg/l	STPSGTH/023/05	BDL	-
26	Phenolic compounds (as, C ₆ H ₅ OH),	mg/l	IS 3025(part 43)	Absent	Absent
27	Mineral oil,	mg/l	IS 3025(part 39)	Absent	Absent
28	Anionic surface active agents (as MBAS),	mg/l	Annex K of IS 13428	0.16	0.2 Max
29	Sulphide (as H ₂ S).	mg/l	IS 3025 (P11129)	0.031	0.05 Max
30	Antimony (as Sb)	mg/l	Annex0 o(IS 13428- or IS 15303	0.0021	0.005 Max
31	Borates (as B)	mg/l	Annex H of IS 13428	2.38	5.0 Max

C.) HEAVY METALS. (PARAMETER CONCERNING TOXIC SUBSTANCES)

1	Lead (Pb)	mg/l	IS 3025 (Part 47)	Absent	0.01 Max
2	Arsenic (As)	mg/l	IS 3025 (Part 37)	Absent	0.05 Max
3	Mercury (Hg)	mg/l	IS 3025 (Part 48)	Absent	0.001 Max
4	Cadmium (Cd)	mg/l	IS 3025 (Part 4)	Absent	0.1 Max
5	Chromium (Cr)	mg/l	Annex J of IS 13428	Absent	0.05 Max
6	Cyanide(as CN)	mg/l	IS 3025 (Part 27)	Absent	Absent
7	Nickel (as Ni),	mg/l	Annex L of IS 13428	Absent	0.02 Max
8	Polychlorinated biphenyl (PCB)	mg/l	Annex M of IS 13428	Absent	Not Detectable
9	Polynuclear aromatic hydrocarbons	mg/l	APHA6440	Absent	Not Detectable
10	Uranium	mg/l	APHA6440	Absent	Not Detectable

D.) RESIDUAL & DISINFECTION PARAMETERS

1	Alpha emitters,	Bq/l	14194(Part 2)	Not Detected	0.1 Max
2	Beta emitters,	Bq/l	14194(Part 1)	Not Detected	1.0 Max

E.) MICROBIOLOGICAL PARAMETERS

1	Total Plate Count	100 ml	IS:15185: 2016	Not Detected	Should be Not Detectable
2	E. coli	100 ml	IS:15185: 2016	Not Detected	Should be Not Detectable
3	Coliform bacteria	100 ml	IS:15185: 2016	Not Detected	Should be Not Detectable
4	Faecal streptococci	100 ml	IS:15185: 2016	Not Detected	Should be Not Detectable
5	Salmonella	100 ml	IS:15185: 2016	Not Detected	Should be Not Detectable
6	Pseudomonas aeruginosa	100 ml	IS:15185: 2016	Not Detected	Should be Not Detectable

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7	Yeast & Mould	100 ml	IS:15185: 2016	Not Detected	Should be Not Detectable
8	Sulphite Reducing Anaerobes Clostridia	100 ml	IS:15185: 2016	Not Detected	Should be Not Detectable
F.) PESTICIDES PARAMETERS,					
1	Organochlorine Pesticides,	µg/l	USEPA 525.2.507	Not Detected	-
2	Organo Phosphorus Pesticides,	µg/l	USEPA 525.2, 8141 A	Not Detected	-
3	Carbamate etc. Residue Screening,	µg/l	USEPA 508	Not Detected	-
4	Pyrethroids,	µg/l	USEPA 508	Not Detected	-
5	Individual Pesticides Traces,	µg/l	USEPA 508	Not Detected	-

Remarks: - Above test result was received as per received sample from the client, Sample **Conforms** to the requirement as per

IS: 14543-2024 Sample consume during test.

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BDL*Below Detection Limit NR*=No Relaxation, NT**=No Traceable

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

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