



SMS LABS SERVICES PRIVATE LIMITED

TEST REPORT



Report No: EN/18010150-01

Report Date: 01 Feb 2018

Chemical T-2637
Biological T-2639
Mechanical T-2638

SAMPLE DRAWN BY LABORATORY

Customer Name : M/S. A.R.DAIRY FOOD PRIVATE LIMITED,
Customer Address : No: 10/5C, Madurai Road, Begampur (PO), Dindigul - 624 002.

Sample Name : Water
Sample Description : Raw Water
Reference : Test Request Form Dated 22 Jan 2018
Sample No : EN/18010150-01
Sample Condition : Fit for Analysis
Sample Quantity : 10 Litres
Sample Procedure : SMSLA/EN/SOP/001, SMSLA/MB/SOP/06
Sample Location : Under Ground Resource - Main Tank - A
Sampling Date : 22 Jan 2018
Sample Received on : 23 Jan 2018
Test Started on : 23 Jan 2018
Test Completed on : 01 Feb 2018

Test Results

Sl.No	Parameter	Test Method	Unit	Results	Requirement Limits as per IS 10500-2012	
					Acceptable Limit	Permissible limit in the absence of alternative Source
MICROBIOLOGICAL ANALYSIS						
1	E.coli	IS 15185		Absent/100mL	Absent/100mL	
2	coliforms	IS 1622		Absent/100mL		
TABLE 1 ORGANOLEPTIC AND PHYSICAL PARAMETERS						
3	Colour	IS 3025 (Part - 4)	Hazen	2.0	5 Max	15 Max
4	Odour	IS 3025 (Part - 5)	--	Agreeable	Agreeable	Agreeable
5	Turbidity	IS 3025 (Part - 10)	NTU	0.5	1 Max	5 Max
6	pH @ 25°C	IS 3025 (Part - 11)	--	7.73	6.5-8.5	No relaxation
7	Taste	IS 3025 (Part - 8)	--	Agreeable	Agreeable	Agreeable
8	Total Dissolved Solids @180°C	IS 3025 (Part - 16)	mg/L	665	500 Max	2000 Max

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To Ann Rd

R. Iyappan

Authorised Signatory

R. IYAPPAN

Sr. Executive - Chemist

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TABLE 2 GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS						
9	Aluminium as Al	IS 3025 (Part - 65)	mg/L	BDL(DL:0.001)	0.03 Max	0.2 Max
10	Ammonia (as Total ammonia-N)	IS 3025 (Part - 34)	mg/L	BDL(DL:0.01)	0.5 Max	No relaxation
11	Anionic Surface Active Agent as MBAS	IS 13426 Annex K	mg/L	BDL(DL:0.05)	0.2 Max	1.0 Max
12	Barium as Ba	IS 3025 (Part - 65)	mg/L	BDL(DL:0.001)	0.7 Max	No relaxation
13	Boron as B	IS 3025 (Part - 65)	mg/L	BDL(DL:0.001)	0.5 Max	1.0 Max
14	Calcium as Ca	IS 3025 (Part - 40)	mg/L	96	75 Max	200 Max
15	Chloramines as Cl ₂	APHA 23 rd EDI 4500-Cl ₂ - G	mg/L	BDL(DL:1.0)	4.0 Max	No relaxation
16	Chloride as Cl	IS 3025 (Part - 32)	mg/L	103	250 Max	1000 Max
17	Copper as Cu	IS 3025 (Part - 65)	mg/L	BDL(DL:0.001)	0.05 Max	1.5 Max
18	Fluoride as F	IS 3025 (Part - 60)	mg/L	0.8	1.0 Max	1.5 Max
19	Residual Free Chlorine	IS 3025 (Part - 26)	mg/L	BDL(DL:0.1)	0.2 Min	1.0 Max
20	Iron as Fe	IS 3025 (Part - 53)	mg/L	0.1	0.3 Max	No relaxation
21	Magnesium as Mg	IS 3025 (Part - 46)	mg/L	49	30 Max	100 Max
22	Manganese as Mn	IS 3025 (Part - 65)	mg/L	BDL(DL:0.001)	0.1 Max	0.3 Max
23	Mineral Oil	IS 3025 (Part - 39)	mg/L	BDL(DL:0.01)	0.5 Max	No relaxation
24	Nitrate as NO ₃	4500 NO ₃ -B APHA 23 rd Edn	mg/L	89	45 Max	No relaxation
25	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part - 43)	mg/L	BDL(DL:0.001)	0.001 Max	0.002 Max
26	Selenium as Se	IS 3025 (Part - 65)	mg/L	BDL(DL:0.001)	0.01 Max	No relaxation
27	Silver as Ag	IS 3025 (Part - 65)	mg/L	BDL(DL:0.001)	0.1 Max	No relaxation
28	Sulphate as SO ₄	IS 3025 (Part - 24)	mg/L	53	200 Max	400 Max
29	Sulphide as H ₂ S	IS 3025 (Part - 29)	mg/L	BDL(DL:0.04)	0.05 Max	No relaxation
30	Total Hardness as CaCO ₃	IS 3025 (Part - 21)	mg/L	440	200 Max	600 Max
31	Total Alkalinity as CaCO ₃	IS 3025 (Part - 23)	mg/L	332	200 Max	600 Max
32	Zinc as Zn	IS 3025 (Part - 65)	mg/L	BDL(DL:0.001)	5.0 Max	15.0 Max

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TABLE 3 PARAMETERS CONCERNING TOXIC SUBSTANCES						
33	Cadmium as Cd	IS 3025 (Part - 65)	mg/L	BDL(DL:0.001)	0.003 Max	No relaxation
34	Cyanide as CN	IS 3025 (Part - 27)	mg/L	BDL(DL:0.01)	0.05 Max	No relaxation
35	Lead as Pb	IS 3025 (Part - 65)	mg/L	BDL(DL:0.001)	0.01 Max	No relaxation
36	Mercury as Hg	EPA Method 200.8	mg/L	BDL(DL:0.0005)	0.001 Max	No relaxation
37	Molybdenum as Mo	IS 3025 (Part - 65)	mg/L	BDL(DL:0.001)	0.07 Max	No relaxation
38	Nickel as Ni	IS 3025 (Part - 65)	mg/L	BDL(DL:0.001)	0.02 Max	No relaxation
39	Total Arsenic as As	IS 3025 (Part - 65)	mg/L	BDL(DL:0.001)	0.01 Max	0.05
40	Total Chromium as Cr	IS 3025 (Part - 65)	mg/L	BDL(DL:0.001)	0.05 Max	No relaxation
41	Poly Chlorinated Biphenyls (PCBs)	SMSLA/IN/SOP/03 by GCMSMS	ng/L	BDL(DL:0.00005)	0.0005 Max	No relaxation
42	Polynuclear Aromatic Hydrocarbons (PAH)	SMSLA/IN/SOP/04 By GCMSMS	mg/L	BDL(DL:0.00005)	0.0001 Max	No relaxation
PESTICIDE RESIDUES						
43	Abschlor	SMSLA/IN/SOP/02 By GCMSMS	µg/L	BDL(DL:0.02)	20.0 Max	No relaxation
44	Atrazine		µg/L	BDL(DL:0.02)	2.0 Max	No relaxation
45	Aldrin		µg/L	BDL(DL:0.01)	0.03 Max	No relaxation
46	Dieldrin		µg/L	BDL(DL:0.01)	0.03 Max	No relaxation
47	Alpha HCH		µg/L	BDL(DL:0.01)	0.01 Max	No relaxation
48	Beta HCH		µg/L	BDL(DL:0.01)	0.04 Max	No relaxation
49	Butachlor		µg/L	BDL(DL:0.01)	125 Max	No relaxation
50	Chlorpyrifos		µg/L	BDL(DL:0.01)	30.0 Max	No relaxation
51	Delta - HCH		µg/L	BDL(DL:0.01)	0.04 Max	No relaxation
52	2,4 - Dichlorophenoxyacetic acid		SMSLA/IN/SOP/01 By LCMSMS	µg/L	BDL(DL:0.05)	30 Max
53	o,p' - DDT	SMSLA/IN/SOP/02 By GCMSMS	µg/L	BDL(DL:0.01)	1.0 Max	No relaxation
54	p,p' - DDT		µg/L	BDL(DL:0.01)	1.0 Max	No relaxation
55	o,p' - DDE		µg/L	BDL(DL:0.01)	1.0 Max	No relaxation
56	p,p' - DDE		µg/L	BDL(DL:0.01)	1.0 Max	No relaxation
57	o,p' - DDD		µg/L	BDL(DL:0.01)	1.0 Max	No relaxation
58	p,p' - DDD		µg/L	BDL(DL:0.01)	1.0 Max	No relaxation

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					Acceptable Limit	Permissible limit in the absence of alternative Source
59	alpha- Endosulfan	SMSLA/IN/SOP/02 By GCMSMS	µg/L	BDL(DL:0.01)	0.4 Max	No relaxation
60	beta- Endosulfan		µg/L	BDL(DL:0.01)	0.4 Max	No relaxation
61	Endosulfan Sulphate		µg/L	BDL(DL:0.01)	0.4 Max	No relaxation
62	Ethion		µg/L	BDL(DL:0.02)	3.0 Max	No relaxation
63	Gamma - HCH		µg/L	BDL(DL:0.01)	2.0 Max	No relaxation
64	Isoproturon	SMSLA/IN/SOP/01 By LCMSMS	µg/L	BDL(DL:0.02)	9.0 Max	No relaxation
65	Malathion		µg/L	BDL(DL:0.01)	190 Max	No relaxation
66	Methyl Parathion	SMSLA/IN/SOP/02 By GCMSMS	µg/L	BDL(DL:0.01)	0.3 Max	No relaxation
67	Monocrotophos	SMSLA/IN/SOP/01 By LCMSMS	µg/L	BDL(DL:0.02)	1.0 Max	No relaxation
68	Phorate	SMSLA/IN/SOP/02 By GCMSMS	µg/L	BDL(DL:0.02)	2.0 Max	No relaxation
TRihalOMETHANES						
69	Bromoform	SMSLA/IN/SOP/29 By GC-ECD	mg/L	BDL(DL:0.005)	0.1 Max	No relaxation
70	Dibromochloromethane		mg/L	BDL(DL:0.005)	0.1 Max	No relaxation
71	Bromodichloromethane		mg/L	BDL(DL:0.005)	0.06 Max	No relaxation
72	Chloroform		mg/L	BDL(DL:0.005)	0.2 Max	No relaxation

Note : BDL : Below Detection Limit.

Remarks : The above mentioned water sample does not conform to the requirements of Limits as per IS 10500:2012 for the above tested parameters

End of Report

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