



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



Chemical T-2537  
Biological T-2553  
Mechanical T-2338

Report No: EN/17070177-02

Report Date : 08 Aug 2017

### 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 29 Jul 2017  
Sample No : EN/17070177-02  
Sample Condition : Fit for Analysis  
Sample Quantity : 15 Litres  
Sample Procedure : SMSLA/EN/SOP/001, SMSLA/MB/SOP/06  
Sample Location : UGR Main Tank - A  
Sampling Date : 29 Jul 2017  
Sample Received on : 31 Jul 2017  
Test Started on : 31 Jul 2017  
Test Completed on : 08 Aug 2017

### 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.
<b>MICROBIOLOGICAL ANALYSIS</b>						
1	E.coli	IS 15185 : 2002 (Reaff 2009)		Absent/100mL	Absent/100mL	
2	coliforms	IS 1622 : 1981(Reaff 2009)	--	Absent/100mL		
<b>TABLE 1 ORGANOLEPTIC AND PHYSICAL PARAMETERS</b>						
3	Colour	IS 3025 Part 4: 1983 (Reaff 2012)	Hazen	Less than 1.0	5 Max	15 Max
4	Odour	IS 3025 Part 5: 1983 (Reaff 2012)	--	Agreeable	Agreeable	Agreeable
5	Turbidity	IS 3025 Part 10: 1984 (Reaff 2012)	NTU	0.3	1 Max	5 Max
6	pH @ 25°C	IS 3025 Part 11: 1984(Reaff 2012)	--	8.25	6.5-8.5	No relaxation
7	Taste	IS 3025 Part 8: 1984 (Reaff 2012)	--	Agreeable	Agreeable	Agreeable
8	Total Dissolved Solids @180 - C	IS 3025 Part 16: 1984(Reaff 2006)	mg/L	378	500 Max	2000 Max

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Asst. Manager Environment

39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk,  
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# SMS LABS SERVICES PRIVATE LIMITED



Chemical T-2517  
Biological T-2513  
Mechanical T-2518

## TEST REPORT

Report No : EN/17070177-02

Report Date: 08 Aug 2017

Sl.No	Parameter	Test Method	Unit	Results	Requirement Limits as per IS 10500-2012	
					Acceptable Limit	Permissible limit in the absence of alternative Source
<b>TABLE 2 GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS</b>						
9	Aluminium as Al	IS 3025 Part 55:2003(Reaff 2009)	mg/L	0.07	0.03 Max	0.2 Max
10	Ammonia (as Total ammonia -N)	IS 3025 Part 34:1988(Reaff 2009)	mg/L	BDL(DL:0.01)	0.5 Max	No relaxation
11	Anionic Surface Active Agent as MBAS	IS 13428 Annex K:2005(Reaff 2005)	mg/L	BDL(DL:0.05)	0.2 Max	1.0 Max
12	Barium as Ba	Annexure F of IS 13428 : 2009	mg/L	BDL(DL:0.1)	0.7 Max	No relaxation
13	Boron as B	IS 3025 Part 65 : 2014	mg/L	0.3	0.5 Max	1.0 Max
14	Calcium as Ca	IS 3025 Part 40:1991(Reaff 2009)	mg/L	98.0	75 Max	200 Max
15	Chloramines as Cl <sub>2</sub>	APHA 22 <sup>nd</sup> EDI 4500-Cl <sub>2</sub> - G 2012	mg/L	BDL(DL:1.0)	4.0 Max	No relaxation
16	Chloride as Cl	IS 3025 Part 32:1988(Reaff 2009)	mg/L	337	250 Max	1000 Max
17	Copper as Cu	IS 3025 Part 42:1992(Reaff 2009)	mg/L	0.03	0.05 Max	1.5 Max
18	Fluoride as F	IS 3025 Part 60(Reaff 2008)	mg/L	0.3	1.0 Max	1.5 Max
19	Residual Free Chlorine	IS 3025 Part 26:1986(Reaff 2009)	mg/L	BDL(DL:0.1)	0.2 Min	1.0 Max
20	Iron as Fe	IS 3025 Part 53:2003(Reaff 2009)	mg/L	0.06	0.3 Max	No relaxation
21	Magnesium as Mg	IS 3025 Part 46:1994(Reaff 2009)	mg/L	77.0	30 Max	100 Max
22	Manganese as Mn	IS 3025 Part 59:2006(Reaff 2012)	mg/L	0.04	0.1 Max	0.3 Max
23	Mineral Oil	IS 3025 Part 39:1991(Reaff 2009)	mg/L	BDL(DL:0.01)	0.5 Max	No relaxation
24	Nitrate as NO <sub>3</sub>	4500 NO <sub>3</sub> -B APHA 22 <sup>nd</sup> Edn 2012	mg/L	14.0	45 Max	No relaxation
25	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	IS 3025 Part 43:1992(Reaff 2009)	mg/L	BDL(DL:0.001)	0.001 Max	0.002 Max
26	Selenium as Se	IS 3025 Part 53:2003 (Reaff 2009)	mg/L	BDL(DL:0.005)	0.01 Max	No relaxation
27	Silver as Ag	IS 13428 Annex J:2005 (Reaff 2005)	mg/L	BDL(DL:0.007)	0.1 Max	No relaxation
28	Sulphate as SO <sub>4</sub>	IS 3025 Part 24:1986(Reaff 2009)	mg/L	63.0	200 Max	400 Max
29	Sulphide as H <sub>2</sub> S	IS 3025 Part 29:2003(Reaff 2009)	mg/L	BDL(DL:0.04)	0.05 Max	No relaxation
30	Total Hardness as CaCO <sub>3</sub>	IS 3025 Part 21:1983(Reaff 2009)	mg/L	562	200 Max	600 Max
31	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 Part 23:1986(Reaff 2003)	mg/L	300	200 Max	600 Max
32	Zinc as Zn	IS 3025 Part 49:1994(Reaff 2009)	mg/L	0.05	5.0 Max	15.0 Max

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# SMS LABS SERVICES PRIVATE LIMITED



Chemical T-2117  
Biological T-2511  
Mechanical T-2118

## TEST REPORT

Report No : EN/17070177-02

Report Date: 08 Aug 2017

Sl.No	Parameter	Test Method	Unit	Results	Requirement Limits as per IS 10500-2012	
					Acceptable Limit	Permissible limit in the absence of alternative Source
<b>TABLE 3 PARAMETERS CONCERNING TOXIC SUBSTANCES</b>						
33	Cadmium as Cd	IS 3025 Part 65 : 2014	mg/L	BDL(DL 0.001)	0.003 Max	No relaxation
34	Cyanide as CN	IS 3025 Part 27 : 1986(Reaff 2009)	mg/L	BDL(DL 0.01)	0.05 Max	No relaxation
35	Lead as Pb	IS 3025 Part 47 : 1994(Reaff 2009)	mg/L	BDL(DL 0.005)	0.01 Max	No relaxation
36	Mercury as Hg	IS 3025 Part 48 : 1994(Reaff 2009)	mg/L	BDL(DL 0.0005)	0.001 Max	No relaxation
37	Molybdenum as Mo	IS 3025 Part 65 : 2014	mg/L	0.02	0.07 Max	No relaxation
38	Nickel as Ni	IS 3025 Part 54 : 2003(Reaff 2003)	mg/L	0.01	0.02 Max	No relaxation
39	Total Arsenic as As	IS 3025 Part 37 : 1986(Reaff 1999)	mg/L	BDL(DL 0.004)	0.01 Max	0.05
40	Total Chromium as Cr	IS 3025 Part 52 : 1994(Reaff 2009)	mg/L	0.03	0.05 Max	No relaxation
41	Poly Chlorinated Biphenyls (PCBs)	SMSLA/IN/SOP/03 by GCMSMS	mg/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
<b>PESTICIDE RESIDUES</b>						
43	Alachlor	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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## TEST REPORT



Chemical T-2937  
Biological T-2939  
Mechanical T-2935

Report No : EN/17070177-02

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Sl.No	Parameter	Test Method	Unit	Results	Requirement Limits as per IS 10500:2012	
					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
<b>TRihalOMETHANES</b>						
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 conforms to the requirements of Permissible Limits as per IS 10500:2012 for the above tested parameters

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

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