



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



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

Report No:SEN/18100070-01

Report Date:15 Oct 2018

Customer Name : 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 09.10.2018      Sample Quantity : 15 Litres  
Sample Condition : Fit for Analysis      Sampling Date : 09 Oct 2018  
Sampling Location : UGR-Main Tank-A      Sample Received on : 10 Oct 2018  
Sampling Procedure : SMSLA/EN/SOP/001,SMSLA/MB/SO      Test Started on : 10 Oct 2018  
Sampling Drawn By : Laboratory      Test Completed on : 15 Oct 2018

### Test Results

S.No	Parameter	Test Method	Unit	Results	Requirements as per IS 10500-2012	
					Acceptable Limit	Permissible Limit in the absence of alternative source
<b>TABLE 1 ORGANOLEPTIC AND PHYSICAL PARAMETERS</b>						
1	Colour	IS 3025 (Part- 4)	Hazen	2.0	5 Max	15 Max
2	Odour	IS 3025 (Part -5)	--	Agreeable	Agreeable	Agreeable
3	pH Value	IS 3025 (Part 11)	--	7.50	6.5-8.5	No relaxation
4	Taste	IS 3025 (Part-8)	--	Agreeable	Agreeable	Agreeable
5	Total Dissolved solids	IS 3025 (Part-16)	mg/L	432	500 Max	2000 Max
6	Turbidity	IS 3025 (Part-10)	NTU	0.5	1 Max	5.0 Max
<b>TABLE 2 GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS</b>						
7	Aluminium (as Al)	IS 3025 (Part-65)	mg/L	BDL(DL:0.001)	0.03 Max	0.2 Max
8	Ammonia (as Total Ammonia-N)	IS 3025 (Part-34)	mg/L	BDL(DL:0.01)	0.5 Max	No relaxation
9	Anionic detergents (as MBAS)	Annex K of IS 13428	mg/L	BDL(DL:0.05)	0.2 Max	1.0 Max
10	Barium (as Ba)	IS 3025 (Part-65)	mg/L	BDL(DL:0.001)	0.7 Max	No relaxation

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### TABLE 2 GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS

11	Boron (as B)	IS 3025 (Part-65)	mg/L	BDL(DL:0.001)	0.5 Max	1.0 Max
12	Calcium (as Ca)	IS 3025 (Part-40)	mg/L	64	75 Max	200 Max
13	Chloramines (as Cl <sub>2</sub> )	APHA 23rd Edition 4500-C1 G	mg/L	BDL(DL:1.0)	4.0 Max	No relaxation
14	Chloride (as Cl)	IS 3025 (Part-32)	mg/L	43	250 Max	1000 Max
15	Copper (as Cu)	IS 3025 (Part-65)	mg/L	BDL(DL:0.001)	0.05 Max	1.5 Max
16	Fluoride (as F)	IS 3025 (Part 60)	mg/L	0.3	1.0 Max	1.5 Max
17	Free Residual Chlorine	IS 3025 ( Part- 26 )	mg/L	BDL(DL:0.1)	0.2 Max	1.0 Min
18	Iron (as Fe)	IS:3025:(Part-53)	mg/L	BDL(DL:0.05)	1.0 Max	No relaxation
19	Magnesium (as Mg)	IS 3025 (Part-46)	mg/L	42	30 Max	100 Max
20	Manganese (as Mn)	IS 3025 (Part-65)	mg/L	BDL(DL:0.001)	0.1 Max	0.3 Max
21	Mineral Oil	IS 3025 (Part-39)	mg/L	BDL(DL:0.5)	0.5 Max	No relaxation
22	Nitrate (as NO <sub>3</sub> )	APHA 23rd EDI:4500 - NO <sub>3</sub> -B	mg/L	7.7	45 Max	No relaxation
23	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 (Part-43)	mg/L	BDL(DL:0.001)	0.001 Max	0.002 Max
24	Selenium (as Se)	IS 3025 (Part-65)	mg/L	BDL(DL:0.001)	0.01 Max	No relaxation
25	Silver (as Ag)	IS 3025 (Part-65)	mg/L	BDL(DL:0.001)	0.1 Max	No relaxation
26	Sulphate (as SO <sub>4</sub> )	IS 3025 (Part-24)	mg/L	28	200 Max	400 Max
27	Sulphide (as H <sub>2</sub> S)	IS 3025 (Part-29)	mg/L	BDL(DL:0.04)	0.05 Max	No relaxation
28	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part-23)	mg/L	353	200 Max	600 Max
29	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part-21)	mg/L	335	200 Max	600 Max
30	Zinc (as Zn)	IS 3025 (Part-65)	mg/L	BDL(DL:0.001)	5.0 Max	15.0 Max

### TABLE 3 PARAMETERS CONCERNING TOXIC SUBSTANCES

31	Cadmium (as Cd)	IS 3025 (Part-65)	mg/L	BDL(DL:0.001)	0.003 Max	No relaxation
32	Cyanide (CN)	IS 3025 (Part-27)	mg/L	BDL(DL:0.01)	0.05 Max	No relaxation
33	Lead (as Pb)	IS 3025 (Part-65)	mg/L	BDL(DL:0.001)	0.01 Max	No relaxation

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### TABLE 3 PARAMETERS CONCERNING TOXIC SUBSTANCES

34	Mercury (as Hg)	IS 3025 (Part-48)	mg/L	BDL(DL:0.0005)	0.001 Max	No relaxation
35	Molybdenum (as Mo)	IS 3025 (Part-65)	mg/L	BDL(DL:0.001)	0.07 Max	No relaxation
36	Nickel (as Ni)	IS 3025 (Part-65)	mg/L	BDL(DL:0.001)	0.02 Max	No relaxation
37	Polychlorinated biphenyls (as PCB)	SMSLA/IN/SOP/04	mg/L	BDL(DL:0.00001)	0.0005 Max	No relaxation
38	Polynuclear aromatic hydrocarbons (as PAH)	SMSLA/IN/SOP/03	mg/L	BDL(DL:0.00001)	0.0001 Max	No relaxation
39	Total Arsenic (as As)	IS 3025 (Part-65)	mg/L	BDL(DL:0.001)	0.01 Max	No relaxation
40	Total Chromium (as Cr)	IS 3025 (Part-65)	mg/L	BDL(DL:0.001)	0.05 Max	No relaxation

### TRIHALOMETHANES

41	Bromodichloromethane	SMSLA/IN/SOP/29	mg/L	BDL(DL:0.005)	0.06 Max	No relaxation
42	Bromoform	SMSLA/IN/SOP/29	mg/L	BDL(DL:0.005)	0.1 Max	No relaxation
43	Chloroform	SMSLA/IN/SOP/29	mg/L	BDL(DL:0.005)	0.2 Max	No relaxation
44	Dibromochloromethane	SMSLA/IN/SOP/29	mg/L	BDL(DL:0.005)	0.1 Max	No relaxation

### TABLE 5 PESTICIDE RESIDUES

45	2-4 Dichlorophenoxyacetic Acid	SMSLA/IN/SOP/01	µg/L	BDL(DL:0.01)	30 Max	No relaxation
46	Alachlor	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	20 Max	No relaxation
47	Aldrin/Dieldrin	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	0.03 Max	No relaxation
48	Alpha HCH	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	0.01 Max	No relaxation
49	Alpha-Endosulfan	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	0.4 Max	No relaxation
50	Atrazine	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	2 Max	No relaxation
51	Beta -Endosulfan	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	0.4 Max	No relaxation

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<b>TABLE 5 PESTICIDE RESIDUES</b>						
52	Beta HCH	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	0.04 Max	No relaxation
53	Butachlor	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	125 Max	No relaxation
54	Chlorpyrifos	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	30 Max	No relaxation
55	Delta HCH	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	0.04 Max	No relaxation
56	Endosulfan Sulphate	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	0.4 Max	No relaxation
57	Ethion	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	3 Max	No relaxation
58	Gamma HCH	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	2 Max	No relaxation
59	Isoproturon	SMSLA/IN/SOP/01	µg/L	BDL(DL:0.01)	9 Max	No relaxation
60	Malathion	SMSLA/IN/SOP/01	µg/L	BDL(DL:0.01)	190 Max	No relaxation
61	Methyl parathion	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	0.3 Max	No relaxation
62	Monocrotophos	SMSLA/IN/SOP/01	µg/L	BDL(DL:0.01)	1 Max	No relaxation
63	o,p'-DDD	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	1 Max	No relaxation
64	o,p'DDE	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	1 Max	No relaxation
65	o,p'DDT	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	1 Max	No relaxation
66	p,p'-DDD	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	1 Max	No relaxation
67	p,p'DDE	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	1 Max	No relaxation
68	p,pDDT	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	1 Max	No relaxation

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<b>TABLE 5 PESTICIDE RESIDUES</b>						
69	Phorate	SMSLA/IN/SOP/02 and SMSLA/IN/SOP/02A	µg/L	BDL(DL:0.01)	2 Max	No relaxation
<b>MICROBIOLOGICAL ANALYSIS</b>						
70	E.coli or Thermotolerant Coliforms	IS 15185	--	Absent/100mL	Absent/100mL	Absent/100mL
71	Total Coliforms	IS 1622	--	Absent/100mL	Absent/100mL	Absent/100mL

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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