



SMS LABS SERVICES PRIVATE LIMITED

TEST REPORT



TC-6118

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Report No : QEN-22020205-01

Report Date: 25 Feb 2022

Customer Name : M/s. A.R.Dairy Food Private Limited
 Customer Address : No:10/5C, Madurai Road,Begampur Post, Dindigul-624002.
 Sample Name : Water Sample Quantity : 2 Ltr x 10 No's
 Sample Description : Potable Water Sampling Date : 17 Feb 2022
 Sample Drawn By : Laboratory Sample Received on : 18 Feb 2022
 Sample Procedure : SMSLA/EN/SOP/001, SMSLA/MB/SOP/06 Test Started on : 18 Feb 2022
 Sample Location : UGR Main Tank A.B and C Test Completed on : 25 Feb 2022

TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	Requirements as per IS 10500-2012-Amd:4	
					Acceptable Limit	Permissible Limit in the absence of alternative source
Biological						
1	<i>Escherichia coli</i>	IS 15185	Per 100mL	Absent	Absent/100ml	Absent/100ml
2	<i>Total Coliforms</i>	IS 15185	Per 100mL	Absent	Absent/100ml	Absent/100ml
Clause 4, Table 1 Organoleptic And Physical parameters						
3	Colour	IS 3025 (Part 04)	Hazen	2.0	5.0 Max	15.0 Max
4	Odour	IS 3025 (Part 05)	--	Agreeable	Agreeable	Agreeable
5	pH Value	IS 3025 (Part 11)	--	7.60	6.5 - 8.5	No Relaxation
6	Taste	IS 3025 (Part 08)	--	Agreeable	Agreeable	Agreeable
7	Total Dissolved Solids	IS 3025 (Part 16)	mg/L	294	500.0 Max	2000.0 Max
8	Turbidity	IS 3025 (Part 10)	NTU	0.4	1.0 Max	5.0 Max
Clause 4, Table 2 General Parameters Concerning Substances Undesirable In Excessive Amounts						
9	Aluminium	IS 3025 (Part 65)	mg/L	BLQ(LOQ:0.001)	0.03 Max	0.2 Max
10	Ammonia (as Total Ammonia-N)	IS 3025 (Part 34)	mg/L	BLQ(LOQ:0.03)	0.5 Max	No Relaxation
11	Anionic Detergents (as MBAS)	Annex K of IS 13428	mg/L	BLQ(LOQ:0.05)	0.2 Max	1.0 Max
12	Barium	IS 3025 (Part 65)	mg/L	BLQ(LOQ:0.001)	0.7 Max	No Relaxation
13	Boron	IS 3025 (Part 65)	mg/L	BLQ(LOQ:0.025)	0.5 Max	2.4 Max
14	Calcium (as Ca)	IS 3025 (Part 40)	mg/L	22	75.0 Max	200.0 Max
15	Chloramines (as Cl ₂)	APHA 23rd Edition:4500 Cl ₂ G 2017	mg/L	BLQ(LOQ:1.0)	4.0 Max	No Relaxation

D. KARTHIK
 Microbiologist

R. PRABHU
 Senior Chemist

Laboratory Address : 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai - 600124.
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S.NO	Parameter	Test Method	Unit	Results	Requirements as per IS 10500-2012-Amd:4	
					Acceptable Limit	Permissible Limit in the absence of alternative source
16	Chloride (as Cl)	IS 3025 (Part 32)	mg/L	94	250.0 Max	1000.0 Max
17	Copper	IS 3025 (Part 65)	mg/L	BLQ(LOQ:0.001)	0.05 Max	1.5 Max
18	Fluoride as F	IS 3025 (Part 60)	mg/L	0.2	1.0 Max	1.5 Max
19	Free Residual Chlorine	IS 3025 (Part 26)	mg/L	BLQ(LOQ:0.1)	0.2 Min	1.0 Min
20	Iron (as Fe)	IS 3025 (Part 53)	mg/L	BLQ(LOQ:0.05)	1.0 Max	No Relaxation
21	Magnesium (as Mg)	IS 3025 (Part 46)	mg/L	9.4	30.0 Max	100.0 Max
22	Manganese	IS 3025 (Part 65)	mg/L	BLQ(LOQ:0.001)	0.1 Max	0.3 Max
23	Mineral Oil	IS 3025 (Part 39)	mg/L	BLQ(LOQ:1.0)	1.0 Max	No Relaxation
24	Nitrate (as NO ₃)	APHA 23rd Edition:4500 NO ₃ B 2017	mg/L	4.2	45.0 Max	No Relaxation
25	Phenolic Compound (as C ₆ H ₅ OH)	IS 3025 (Part 43)	mg/L	BLQ(LOQ:0.001)	0.001 Max	0.002 Max
26	Selenium	IS 3025 (Part 65)	mg/L	BLQ(LOQ:0.001)	0.01 Max	No Relaxation
27	Silver	IS 3025 (Part 65)	mg/L	BLQ(LOQ:0.001)	0.1 Max	No Relaxation
28	Sulphate (as SO ₄)	IS 3025 (Part 24)	mg/L	23	200.0 Max	400.0 Max
29	Sulphide (as H ₂ S)	IS 3025 (Part 29)	mg/L	BLQ(LOQ:0.04)	0.05 Max	No Relaxation
30	Total Alkalinity (as CaCO ₃)	IS 3025 (Part 23)	mg/L	110	200.0 Max	600.0 Max
31	Total Hardness (as CaCO ₃)	IS 3025 (Part 21)	mg/L	94	200.0 Max	600.0 Max
32	Zinc	IS 3025 (Part 65)	mg/L	BLQ(LOQ:0.001)	5.0 Max	15.0 Max
Clause 4, Table 3 Parameters Concerning Toxic Substances						
33	Arsenic	IS 3025 (Part 65)	mg/L	BLQ(LOQ:0.001)	0.01 Max	No Relaxation
34	Bromo dichloromethane	SMSLA/GEF/SOP/03	mg/L	BLQ (LOQ:0.005)	0.06 Max	No relaxation
35	Bromoform	SMSLA/GEF/SOP/03	mg/L	BLQ (LOQ:0.005)	0.1 Max	No Relaxation
36	Cadmium	IS 3025 (Part 65)	mg/L	BLQ(LOQ:0.001)	0.003 Max	No Relaxation
37	Chloroform	SMSLA/GEF/SOP/03	mg/L	BLQ (LOQ:0.005)	0.2 Max	No Relaxation
38	Chromium	IS 3025 (Part 65)	mg/L	BLQ(LOQ:0.001)	0.05 Max	No Relaxation
39	Cyanide (as CN)	IS 3025 (Part 27)	mg/L	BLQ(LOQ:0.01)	0.05 Max	No Relaxation
40	Dibromochloromethane	SMSLA/GEF/SOP/03	mg/L	BLQ (LOQ:0.005)	0.1 Max	No Relaxation
41	Lead	IS 3025 (Part 65)	mg/L	BLQ(LOQ:0.001)	0.01 Max	No Relaxation

R. PRABHU
Senior Chemist

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S.NO	Parameter	Test Method	Unit	Results	Requirements as per IS 10500-2012-Amd:4	
					Acceptable Limit	Permissible Limit in the absence of alternative source
42	Mercury	EPA 200.8	mg/L	BLQ(LOQ:0.0005)	0.001 Max	No Relaxation
43	Molybdenum	IS 3025 (Part 65)	mg/L	BLQ(LOQ:0.001)	0.07 Max	No Relaxation
44	Nickel	IS 3025 (Part 65)	mg/L	BLQ(LOQ:0.001)	0.02 Max	No Relaxation
45	PAHs	SMSLA/GS/SOP/01	mg/L	BLQ(LOQ:0.00001) each	0.0001 Max	No Relaxation
46	PCBs	SMSLA/GS/SOP/01	mg/L	BLQ(LOQ:0.00001) each	0.0005 Max	No Relaxation
47	Uranium	IS 3025 (Part 65)	mg/L	BLQ(LOQ:0.001)	0.03 Max	No relaxation
Clause 4, Table 5 Pesticide Residues						
48	2,4-D	SMSLA/LS/SOP/01	µg/L	BLQ(LOQ:0.01)	30.0 Max	No Relaxation
49	Alachlor	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	20.0 Max	No Relaxation
50	Aldrin	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	0.03 Max	No Relaxation
51	Atrazine	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	2.0 Max	No Relaxation
52	Butachlor	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	125.0 Max	No Relaxation
53	Chlorpyrifos Ethyl	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	30.0 Max	No Relaxation
54	Dieldrin	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	0.03 Max	No relaxation
55	Endosulfan Sulfate	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	0.4 Max	No Relaxation
56	Endosulfan-Alpha	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	0.4 Max	No Relaxation
57	Endosulfan-Beta	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	0.4 Max	No Relaxation
58	Ethion	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	3.0 Max	No Relaxation
59	HCH-Alpha	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	0.01 Max	No Relaxation
60	HCH-Beta	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	0.04 Max	No Relaxation
61	HCH-Delta	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	0.04 Max	No Relaxation
62	HCH-Gamma	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	2.0 Max	No Relaxation
63	Isoproturon	SMSLA/LS/SOP/01	µg/L	BLQ(LOQ:0.01)	9.0 Max	No Relaxation
64	Malathion	SMSLA/LS/SOP/01	µg/L	BLQ(LOQ:0.01)	190.0 Max	No Relaxation
65	Monocrotophos	SMSLA/LS/SOP/01	µg/L	BLQ(LOQ:0.01)	1.0 Max	No Relaxation
66	o,p-DDD	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	1.0 Max	No Relaxation
67	o,p-DDE	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	1.0 Max	No Relaxation

K.PRAKASH
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S.NO	Parameter	Test Method	Unit	Results	Requirements as per IS 10500-2012-Amd:4	
					Acceptable Limit	Permissible Limit in the absence of alternative source
68	o,p-DDT	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	1.0 Max	No Relaxation
69	p,p-DDD	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	1.0 Max	No Relaxation
70	p,p-DDE	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	1.0 Max	No Relaxation
71	p,p-DDT	SMSLA/GS/SOP/01	µg/L	BLQ(LOQ:0.01)	1.0 Max	No Relaxation
72	Parathion methyl	SMSLA/LS/SOP/01	µg/L	BLQ(LOQ:0.01)	0.3 Max	No Relaxation
73	Phorate	SMSLA/LS/SOP/01	µg/L	BLQ(LOQ:0.01)	2.0 Max	No Relaxation

Note : BLQ: Below Limit of Quantification LOQ: Limit of Quantification.
Free Residual Chlorine Limit to be applicable only Chlorinated Water.

Remarks : The Potable Water sample conforms to the requirements of Acceptable Limits as per IS 10500:2012 : Amd : 4 for the Parameters tested above.

/***** End of the Report *****/

K. Prakash

K.PRAKASH
Senior Chemist

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Report Date: 25 Feb 2022

Customer Name : M/s. A.R.Dairy Food Private Limited
Customer Address : No:10/5C, Madurai Road,Begampur Post, Dindigul-624002.
Sample Name : Water **Sample Quantity** : 2 Ltr x 10 No's
Sample Description : Potable Water **Sampling Date** : 17 Feb 2022
Sample Drawn By : Laboratory **Sample Received on** : 18 Feb 2022
Sample Procedure : SMSLA/EN/SOP/001, SMSLA/MB/SOP/06 **Test Started on** : 18 Feb 2022
Sample Location : UGR Main Tank A.B and C **Test Completed on** : 25 Feb 2022

TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results
Biological				
1	Algae & Toxin producing organisms	By Microscopic Evaluation	--	Absent
2	Cryptosporidium	By Microscopic Evaluation	--	Absent
3	Flagellates	By Microscopic Evaluation	--	Absent
4	Giardia	By Microscopic Evaluation	--	Absent
5	Zooplanktons	By Microscopic Evaluation	--	Absent
Virus				
6	MS2 Phage Virus	SMSLA/MOLBIO/SOP/14	--	Not Detected


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Customer Name : M/s. A.R.Dairy Food Private Limited
Customer Address : No:10/5C, Madurai Road,Begampur Post, Dindigul-624002.
Sample Name : Water **Sample Quantity** : 2 Ltr x 10 No's
Sample Description : Potable Water **Sampling Date** : 17 Feb 2022
Sample Drawn By : Laboratory **Sample Received on** : 18 Feb 2022
Sample Procedure : SMSLA/EN/SOP/001, SMSLA/MB/SOP/06 **Test Started on** : 18 Feb 2022
Sample Location : UGR Main Tank A.B and C **Test Completed on** : 25 Feb 2022


TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	Requirements as per IS 10500-2012-Amd:4	
					Acceptable Limit	Permissible Limit in the absence of alternative source
Clause 4, Table 4 Parameters Concerning Radioactive Substances						
1	Alpha Emitters*	IS 14194 (Part 02)	Bq/L	BLQ(LOQ:0.1)	0.1 Max	No Relaxation
2	Beta Emitters*	IS 14194 (Part 01)	Bq/L	BLQ(LOQ:1.0)	1.0 Max	No Relaxation

Note : BLQ: Below Limit of Quantification & Bq: Becquerel *Sub Contracted Parameters.

Remarks : The Potable Water sample conforms to the requirements of Acceptable Limits as per IS 10500:2012 : Amd : 4 for the Parameters tested above.

/***** End of the Report *****/


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