N.D. INTERNATIONAL

GOVERNMENT REGISTERED

An ISO 9001:2015 Company Certificate : 20DQHH82

035-CB-QMS

TEST REPORT

Certificate No : W(D)-(NN)/22-23/1334 Dated: 16.07.2022

SAMPLE DRAWN BY US :

Name of Customer	: M/s. Lakshmipat Singhania Academy
Address	: 12. B, Alipore Road, Kolkata- 700027
Description of Sample	: Drinking Water
Collection Source	: 3rd Floor R.O. Tap Water
Sampling Done by	: Mr. Ashish Bhattacharya
Environmental Condition	: Temperature : 33°C, Humidity : 66%
Sample Drawn on	: 11.07.2022
Analysis Started on	: 11.07.2022
Analysis Completed on	: 16.07.2022
Method of Sampling	: IS 17614 (P-25) : 2022, IS 1622:1981(Bact), IS 17614 (Part-5) :2021(Chem)
Mode of Sampling	: Grab Sampling Plan : NDI/FM/52A

A. MICROBIOLOGICAL PARAMETERS :

Sl. No.	Test Parameters	Test Method	Unit	Results	Norms as per IS 10500 : 2012
1	Total Coliform/100ml @ 37^{0}C for 24 hours	IS 1622:1981	Cfu	<1 (DL:1)	Not Detectable
2	E. coli/100 ml @ 44.5^{0}C for 24 hours	IS 1622:1981	---	Absent	Not Detectable

B. ORGANOLEPTIC & PHYSICAL PARAMETERS :

Sl. No.	Test Parameters	Test Method	Unit	Results	Norms as per IS 10500:2012	
					AL(Max.)	PL(Max.)
3	Colour	APHA 23rd Edn, 2120B	Hazen	<1 (DL:1)	5	15
4	Odour	APHA 23rd Edn, 2150B	--	Agreeable	Agreeable	Agreeable
5	pH at 25°C	APHA 23rd Edn, 4500 H^+ B	--	6.5	6.5 - 8.5	No Relaxation
6	Taste	IS: 3025(Part-8) 1984	--	Agreeable	---	---
7	Turbidity	APHA 23rd Edn, 2130-B	NTU	<1 (DL:1)	1.0	5.0
8	Total Dissolved Solids	APHA 23rd Edn, 2540-C	mg/L	30	500	2000

C. GENERAL PARAMETERS :

9	Aluminium as Al	APHA 23rd Edn, 3113B	mg/L	<0.03 (DL:0.03)	0.03	0.2
10	Calcium as Ca	APHA 23rd Edn, 3500- Ca B	mg/L	0.8	75	200
11	Chloride as Cl	APHA 23rd Edn, 4500 Cl-B	mg/L	12	250	1000
12	Copper as Cu	APHA 23rd Edn, 3111-B	mg/L	<0.05 (DL:0.05)	0.05	1.5
13	Fluoride as F	APHA 23rd Edn, 4500- F D	mg/L	<0.1 (DL:0.1)	1.0	1.5
14	Residual Free Chlorine	IS 3025 (Part 26): 1986	mg/l	<0.1 (DL:0.1)	0.20	1.0
15	Iron as Fe	APHA 23rd Edn, 3500- Fe B	mg/L	<0.1 (DL:0.1)	0.30	No Relaxation
16	Magnesium as Mg	APHA 23rd Edn, 3500- Mg B	mg/L	0.49	30	100
17	Manganese as Mn	APHA 23rd Edn, 3111B	mg/l	<0.02 (DL:0.02)	0.1	0.3
18	Mineral oil	APHA 23rd Edn, 5520 B	mg/L	<0.1 (DL:0.1)	0.5	No relaxation

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Sl. No.	Test parameters	Test method	Unit	Results	Norms as per IS 10500:2012	
					AL(Max.)	PL(Max.)
19	Nitrate as NO_3	APHA 23rd Edn, 4500-NO_3 B	mg/l	<0.2 (DL:0.2)	45	No relaxation
20	Phenolic Compound as C_6H_5OH	APHA 23rd Edn, 5530- C	mg/L	<0.001 (DL:0.001)	0.001	0.002
21	Selenium as Se	APHA 23rd Edn, 3114C	mg/L	<0.005 (DL:0.005)	0.01	No relaxation
22	Sulphate as SO_4	APHA 23rd Edn, 4500- SO_4^{2-} E	mg/L	<5 (DL:5)	200	400
23	Total Alkalinity as $CaCO_3$	APHA 23rd Edn, 2320-B	mg/L	14.7	200	600
24	Total Hardness as $CaCO_3$	APHA 23rd Edn, 2340-C	mg/L	4	200	600
25	Zinc as Zn	APHA 23rd Edn, 3111B	mg/l	<0.05 (DL:0.05)	5	15

D. TOXIC SUBTANCES :

26	Cadmium as Cd	APHA 23rd Edn, 3113B	mg/l	<0.001 (DL:0.001)	0.003	No relaxation
27	Cyanide as CN	APHA 23rd Edn, 4500-CN-F	mg/l	<0.05 (DL:0.05)	0.05	No relaxation
28	Lead as Pb	APHA 23rd Edn, 3113B	mg/l	<0.005 (DL:0.005)	0.01	No relaxation
29	Mercury as Hg	APHA 23rd Edn, 3112B	mg/l	<0.001 (DL:0.001)	0.001	No relaxation
30	Arsenic as As	APHA 23rd Edn, 3114C	mg/l	<0.002 (DL:0.002)	0.01	0.05
31	Total Chromium as Cr	APHA 23rd Edn, 3111B	mg/l	<0.05 (DL:0.05)	0.05	No relaxation

Note : 1. AL - Acceptable Limit. 2. PL - Permissible Limit, Dl - Detection Limit.

As per IS 10500:2012 Total Coliform should be Not Detectable/100ml, which is equivalent to <1 Cfu/100 ml as per IS: 1622 : 1981.

Remarks : Bacteriologically : Satisfactory for the above tested parameters.

Chemically : Satisfactory for the above tested parameters.

Statement of Conformity is applied considering Decision Rule as per ISO Guide 98-4.

...END OF TEST REPORT...

For, N.D. International

Sweta Mukherjee
(Microbiologist)
(Authorised Signatory)

N.D. INTERNATIONAL KOLKATA

For, N.D. International

K. P. De - CEO
(Authorised Signatory)

1. The test report shall not be reproduced,except in full,without written approval of the company.
2. Results relate only to the parameters tested.
3. The remaining sample after test will be retained for 15 days from the date of issue of certificate.

MB-II