

Name & Address of the Customer

: M/S. K.L.E SOCIETY'S SCHOOL,
NAGARBHAVI,
BENGALURU-560072

Particulars of sample

: RO Water
Sample Qty: 2Ltr+500ml, Sampling Type: Grab
Sampling Point: From RO Water Plant

Date of Sample Collection

: 06/05/2024

Date of sample Receipt

: 06/05/2024

Sample ID/Code

: NALRC/2024/05/W/068

Date of Analysis Started

: 06/05/2024

Date of Completion

: 10/05/2024

Report No

: NALRC/2024/05/W/068

Report Date

: 10/05/2024

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Description: - Colorless, Odorless, Transparent liquid

Sl. No	Test parameter	Unit	Result	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test method
01	Color	Hz	BDL (DL=1.0)	5.0	15.0	IS 3025 (part 04): 2021
02	Odor	---	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)-2018
03	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025(Part-07)-2017
04	pH value	---	8.4	6.5 - 8.5	No relaxation	IS:3025(Part-11)-2022
05	Turbidity	NTU	0.2	1.0	5.0	IS:3025(Part-10)-2023
06	Conductivity	μ S/cm	85.0	---	---	IS:3025(Part-14)-2013
07	Total Dissolved Solids	mg/L	51.0	500	2000	IS:3025(Part-16)-2023
08	Total Alkalinity as CaCO ₃	mg/L	19.0	200	600	IS:3025(Part-23)-2023
09	Total Hardness as CaCO ₃	mg/L	29.0	200	600	IS:3025(Part-21)-2009
10	Calcium as Ca	mg/L	8.0	75	200	IS:3025(Part-40)-1991
11	Magnesium as Mg	mg/L	2.0	30	100	IS:3025(Part-46)-2023
12	Chloride as Cl	mg/L	4.0	250	1000	IS:3025(Part-32)-1988
13	Sulphate as SO ₄	mg/L	BDL(DL=1.0)	200	400	APHA 4500 SO ₄ -F 24 th Edn 2023
14	Nitrates as NO ₃	mg/L	1.26	45	No relaxation	APHA 24th Edition 4500 NO ₃ B: 2023
15	Fluoride as F	mg/L	BDL(DL=0.1)	1.0	1.5	APHA 4500-F 24 th Edn 2023
16	Iron as Fe	mg/L	BDL (DL=0.075)	1.0	No relaxation	APHA 24th edition 4500 F D: 2023
17	Residual free chlorine	mg/L	BDL (DL=0.2)	Min 0.2	Min 1.0	IS:3025(Part-26)-2021

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Description: - Colorless, Odorless, Transparent liquid

Sl. No	Test parameter	Unit	Result	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test method
18	Aluminium (as Al)	mg/L	BLQ (LOQ=0.01)	<0.03	<0.2	IS 3025 P-02: 2019
19	Barium (as Ba)	mg/L	BLQ (LOQ=0.01)	<0.7	No relaxation	IS 3025 P-02: 2019
20	Boron (as B)	mg/L	BDL (DL=0.1)	<0.5	<2.4	APHA 24th Edition 4500 B B:2023
21	Copper (as Cu)	mg/L	BLQ (LOQ=0.01)	<0.05	<1.5	IS 3025 P-02: 2019
22	Manganese (as Mn)	mg/L	BLQ (LOQ=0.01)	<0.1	<0.3	IS 3025 P-02: 2019
23	Phenolic compounds (as C ₆ H ₅ OH)	mg/L	BDL(DL=0.001)	<0.001	<0.002	APHA 24th edition 5530 C: 2023
24	Selenium (as Se)	mg/L	BLQ (LOQ=0.01)	<0.01	No relaxation	IS 3025 P-02: 2019
25	Zinc (as Zn)	mg/L	BLQ (LOQ=0.01)	<5.0	<15.0	IS 3025 P-02: 2019
26	Cadmium (as Cd)	mg/L	BLQ (LOQ=0.003)	<0.003	No relaxation	IS 3025 P-02: 2019
27	Lead (as Pb)	mg/L	BLQ (LOQ=0.01)	<0.01	No relaxation	IS 3025 P-02: 2019
28	Nickel (as Ni)	mg/L	BLQ (LOQ=0.01)	<0.02	No relaxation	IS 3025 P-02: 2019
29	Total arsenic (as As)	mg/L	BLQ (LOQ=0.01)	<0.01	No relaxation	IS 3025 P-02: 2019
30	Total chromium (as Cr)	mg/L	BLQ (LOQ=0.01)	<0.05	No relaxation	IS 3025 P-02: 2019

Note: BDL: Below detection Limit DL: Detection Limit; Edn: Edition; BLQ: Below Quantification Limit; LOQ: Limit of Quantification

Note: The Test Residual free Chlorine is applicable only when water is chlorinated.

Remarks: The collected Sample meets to **Acceptable** Limits as Per IS 10500:2012 for the above Physico- chemical tests

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Description: - Colorless, Odorless, Transparent liquid

Sl. No	Test parameter	Unit	Result	Permissible Limits as per IS:10500-2012	Test method
31	Escherichia coli	CFU/100 ml	Not Detected	Shall not be detectable in 100 ml sample	IS : 15185 :2016
32	Total Coliforms	CFU/100 ml	Not Detected		IS : 15185 :2016

Remarks: The Above sample meets the permissible limits as per IS 10500:2012 for the above microbiological tests

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