

Received on 10/11/2021

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11/11/2021

11353/21-22

Food Safety Department
Regional Analytical Laboratory,
Ernakulam.

Dated : 22.10.2021

Description of sample : Pipe Water (Sample forwarded by H.I, Circle II,,Corporation of Kochi)
 Sample Details : Sample received in Plastic Can + Sterile Bottle.
 Source : The Principal, Kendriya Vidyalaya, No.2, Naval Base, Kochi – 682 004
 Date of Receipt : 30-09-2021
 Date of Analysis : Started on 04/10/2021 and completed 12/10/2021
 Sample quantity : 2 Ltr + 125 ml
 Physical Appearance : Clear, Colourless liquid having agreeable odour.

Analytical results :

Sl. No.	Quantity Characteristics	Name of method of test used	Result	Desirable limit prescribed standard as per IS NO. 10500:1991, 2012 IS 3025 WHO 1993 (5)
(1)	(2)	(3)	(4)	(5)
1	pH	IS 3025 Part - 11	6.51	6.5 to 8.5
2	Turbidity	FSSAI Manual ,2016	0.60 NTU	Not more than 5 NTU
3	Alkalinity	IS 3025 Part -22	8.95 mg/l	200.0
4	Total Hardness (as CaCO ₃)	APHA 2017	34.67 mg/l	200.0 mg/l
5	Calcium (as Ca)	APHA 2017	13.90 mg/l	75.0 mg/l
6	Magnesium (as Mg)	APHA 2017	Below Detection Limit	30.0 mg/l
7	Sulphates (as SO ₄ ²⁻)	AOAC,2019	Below Quantification Limit	200.0 mg/l
8	Iron (as Fe)	Qualitative inorganic Analysis by Vogel	Below Detection Limit	0.3 mg/l
9	Residual Free Chlorine	IS 3025 Part -26	Below Quantification Limit	0.2 mg/l
10	Fluoride (as F ⁻)	APHA , 2017	Below Quantification Limit	1.0 mg/l
11	Chloride (as Cl ⁻)	IS 3025 Part -32	6.95 mg/l	250.0 mg/l
12	Nitrite (as NO ₂ ⁻)	APHA , 2017	Below Quantification Limit	0.02 mg/l
13	Ammonia	IS: 3025 Part-34	Nil	0.5 mg/l
14	Nitrate (as NO ₃ ⁻)	APHA ,,2017	Below Quantification Limit	45.0 mg/l
15	Total Dissolved solids	FSSAI manual	70.0 mg/l	500.0 mg/l
16	Coliforms	IS 1622 1981 RA 2019	<2 MPN/100 ml	<2 MPN/100ml
17	E.Coli	IS 1622 1981 RA 2019	Absent/100 ml	Shall be Absent

Limit of Detection for Mg : 0.2 mg/l

Limit of Quantification of Sulphate ≤ 10 mg/l

Limit of Detection of Iron = 0.1 mg/l

Limit of Quantification for Residual Chlorine =0.1 mg/l

Limit of Quantification of Fluoride ≤ 0.2 mg/l

Limit of Quantification of Nitrite ≤ 0.013 mg/l

Limit of Quantification of Nitrate ≤ 2.0 mg/l

Remarks: - . Satisfactory.



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FOOD ANALYST

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