

11470/21-22



Food Safety Department
Regional Analytical Laboratory,
Ernakulam.
Dated 15.11.2021

Description of sample : Water from Residential Area
Sample Details : Sample received in Plastic Can + Sterile Bottle
Source : Asst. Engineer (WS & S), Cochin Port Trust, Kochi - 682 003
Date of Receipt : 29-10-2021
Date of Analysis : Started on 30/10/2021 and completed 08/11/2021
Sample quantity : 2 L + 125 ml
Physical Appearance : Clear, Colourless liquid having agreeable odour.
Analytical results :

Sl. No. (1)	Quantity Characteristics (2)	Name of method of test used (3)	Result (4)	Desirable limit prescribed standard as per IS NO. 10500:1991, 2012 IS 3025 WHO 1993 (5)
1	pH	FSSAI Manual, 2016	6.51	6.5 to 8.5
2	Turbidity	FSSAI Manual, 2016	0.62 NTU	Not more than 5 NTU
3	Alkalinity	FSSAI Manual, 2016	6.24 mg/l	200.0
4	Total Hardness (as CaCO ₃)	APHA, 23 rd edn, 2017	18.09 mg/l	200.0 mg/l
5	Calcium (as Ca)	APHA, 23 rd edn, 2017	4.83 mg/l	75.0 mg/l
6	Magnesium (as Mg)	APHA, 23 rd edn, 2017	1.47 mg/l	30.0 mg/l
7	Sulphates (as SO ₄ ²⁻)	AOAC; 21 st edn, 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, 23 rd edn, 2017	0.76 mg/l	1.0 mg/l
11	Chloride (as Cl ⁻)	FSSAI Manual, 2016	7.44 mg/l	250.0 mg/l
12	Nitrite (as NO ₂ ⁻)	APHA, 23 rd edn, 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, 23 rd edn, 2017	Below Quantification Limit	45.0 mg/l
15	Total Dissolved solids	FSSAI Manual, 2016	39.0 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 Quantification of Sulphates ≤ 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 Nitrate ≤ 2.0 mg/l
Limit of Quantification of Nitrite ≤ 0.013 mg/l

Remarks:- രൂപതീകരം

Rauls

FOOD ANALYST

The test report relates to the test item only. No enquires will be entertained after one month issuing test report. Reproduction of test report in part or full without permission is prohibited.