



Food Safety Department
Regional Analytical Laboratory, Ernakulam,
Dated. 09.03.2021

No.11695/2020-21

Description of sample : Drinking Water
Sample details : The sample received in Plastic can and Sterile Bottle.
Source : Ramadevi.R, Principal I/c, K.V.INS Dronacharya, Kochi-682507.
Date of Receipt : 25.02.2021
Date of Analysis : Started on 01.03.2021 and completed 05.03.2021
Sample quantity : 2 L + 125 ML
Physical Appearance : Clear, colourless liquid having Agreeable odour received in wax sealed plastic can.
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
(1)	(2)	(3)	(4)	(5)
1	pH	IS 3025 Part - II	6.88	6.5 to 8.5
2	Turbidity	IS 3025 Part-10	8.21 NTU	Not more than 5 NTU
3	Alkalinity	IS 3025 Part -23	11.82 mg/l	200.0 mg/l
4	Total Hardness (as CaCO ₃)	APHA 23 rd edn	14.79 mg/l	200.0 mg/l
5	Calcium (as Ca)	APHA 23 rd edn	3.27 mg/l	75.0 mg/l
6	Magnesium (as Mg)	APHA 23 rd edn	1.65 mg/l	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	1.2 mg/l	0.3 mg/l
9	Residual Free Chlorine	IS 3025 Part -26	Nil	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	20.5 mg/l	250.0 mg/l
12	Nitrite (as NO ₂ ⁻)	APHA , 2017	0.013 mg/l	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	Instrumental by conductivity meter	32.19 mg/l	500.0 mg/l
16	Coliform	IS: 1622-1981 RA2019	<2 MPN /100ml	<2 MPN/100mi
17	E.coli	IS :1622-1981 RA2019	Absent /100ml	Shall be Absent

Limit of Quantification of Nitrite ≤ 0.013 mg/l, Limit of Quantification of Nitrate ≤ 2.0 mg/l
Limit of Quantification of Sulphate ≤ 10 mg/l, Limit of Detection of Iron = 0.1 mg/l,
Limit of Detection of Calcium = 2.0 mg/l, Limit of Detection of Chloride = 4.0 mg/l
Limit of Detection of Magnesium = 1.0 mg/l, Limit of Quantification of Fluoride ≤ 0.2 mg/l

Remarks: വെള്ളം ഹിഷ്ടർ ചെയ്ത് ഉപയോഗിക്കാവുന്നതാണ്.

Raculis
FOOD ANALYST

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Amal
24/09/2022
PRINCIPAL
KV INS Dronacharya, Kochi
Pin : 682 507

