



Food Safety Department
Regional Analytical Laboratory, Ernakulam
Dated. 30.06.2021

No. 11107/2021-22

Description of sample : KWA Water (Sample forwarded by Health Inspector, Kochi Municipal Corporation, Circle 15)
Sample details : The sample received in Plastic Can and Sterile Bottle
Source : Al Ameen Public School, Edappally, Kochi, 682024
Date of Receipt : 15.06.2021
Date of Analysis : Started on 15.06.2021 and completed 24.06.2021
Sample quantity : 2 L + 125 ML
Physical Appearance : Clear, colourless liquid having agreeable odour received in sealed plastic can.

Analytical results :

Sl. No.	Quality 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 - 11	6.94	6.5 to 8.5
2	Turbidity	IS 3025 Part-10	0.02 NTU	Not more than 5 NTU
3	Alkalinity	IS 3025 Part -23	37.26 mg/l	200 mg/l
4	Total Hardness (as CaCO ₃)	APHA 23 rd edn	48.02 mg/l	200.0 mg/l
5	Calcium (as Ca)	APHA 23 rd edn	14.93 mg/l	75.0 mg/l
6	Magnesium (as Mg)	APHA 23 rd edn	2.62 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	Below Detection Limit	0.3 mg/l
9	Residual Free Chlorine	IS 3025 Part -26	Nil	0.2 mg/l
10	Fluoride (as F ⁻)	APHA , 2017	0.40 mg/l	1.0 mg/l
11	Chloride (as Cl ⁻)	IS 3025 Part -32	8.0 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	Instrumental by conductivity meter	68.7 mg/l	500.0 mg/l
16	Coliform	IS: 1622-1981 RA2019	<2 MPN/100ml	<2 MPN/100ml
17	E.coli	IS :1622-1981 RA2019	Absent/100ml	Shall be Absent

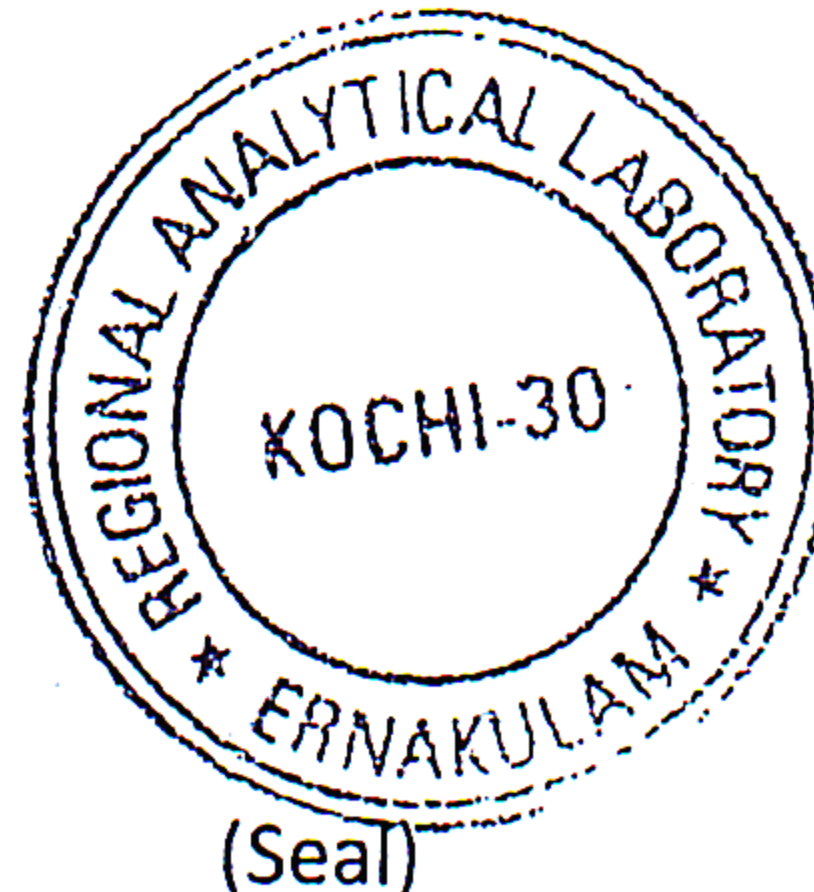
Limit of Quantification for Nitrite : 0.013 mg/l

Limit of Quantification for Nitrate : 2.0 mg/l

Limit of Quantification for Sulphate : 10.0 mg/l

Limit of Detection for Iron : 0.1 mg/l

Remarks : തൃപ്തികരം.



(Seal)

9/7/2021
Ramu
FOOD ANALYST

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HANAGER

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