



11842/21-22

Food Safety Department  
Regional Analytical Laboratory,  
Ernakulam  
Dated : 23/02/2022

Description of sample : Well Water (Forwarded by Medical Officer, PHC, Thiruvaniyoor)  
Sample Details : Sample received in Plastic Can + Sterile Bottle  
Source : St.Ephrem Seminary Public School, Sehion Nagar, Vettickal, P.O.,  
Mulanthuruthy – 682 314, Ernakulam.  
Date of Receipt : 09-02-2022,  
Date of Analysis : Started on 14/02/2022 and completed 21/02/2022  
Sample quantity : 2 L + 125 ml  
Physical Appearance : Clear, colourless liquid having agreeable odour. Sample is sealed by Wax

Analytical results :

Sl. No.	Quality Characteristics	Name of method of test used	Result	Desirable limit prescribed standard as per IS NO. 10500:1991, 2012
(1)	(2)	(3)	(4)	(5)
1	pH	FSSAI Manual ,2016	7.04	6.5 to 8.5
2	Turbidity	FSSAI Manual ,2016	0.44 NTU	Not more than 5 NTU
3	Alkalinity	FSSAI Manual ,2016	37.26 mg/l	200.0
4	Total Hardness (as CaCO <sub>3</sub> )	APHA, 23 <sup>rd</sup> ,edn 2017	41.0 mg/l	200.0 mg/l
5	Calcium (as Ca)	APHA,23 <sup>rd</sup> edn, 2017	13.62 mg/l	75.0 mg/l
6	Magnesium (as Mg)	APHA,23 <sup>rd</sup> edn, 2017	1.70 mg/l	30.0 mg/l
7	Sulphates (as SO <sub>4</sub> <sup>2-</sup> )	AOAC;21 <sup>st</sup> edn,2019	Below Quantification Limit	200.0 mg/l
8	Iron (as Fe)	Qualitative Inorganic Analysis by Vogel	Below Quantification 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 <sup>rd</sup> edn,2017	0.31 mg/l	1.0 mg/l
11	Chloride (as Cl)	FSSAI Manual,2016	17.47 mg/l	250.0 mg/l
12	Ammonia	IS: 3025 Part-34	Nil	0.5 mg/l
13	Nitrate (as NO <sub>3</sub> <sup>-</sup> )	APHA , 23 <sup>rd</sup> edn,2017	10.79 mg/l	45.0 mg/l
14	Total Dissolved solids	FSSAI Manual, 2016	83.0 mg/l	500.0 mg/l
15	Coliforms	IS 1622 1981 RA 2019	<2 MPN/100 ml	<2 MPN/100ml
16	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

Remarks: തൃപ്തികരം

Seal

FOOD ANALYST

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