



Description of sample : KWA Water
Sample Details : Sample received in Plastic Can + Sterile Bottle
Source : Gopakumar P.N, Administrative Manager,
Chinmaya Vidyalaya, Vaduthala, 682 023
Date of Receipt : 24-02-2022
Date of Analysis : Started on 26/02/2022 and completed 05/03/2022
Sample quantity : 2L + 125 ml
Physical Appearance : Clear, Colourless liquid having agreeable odour.
Analytical results :

Sl. No. (1)	Quality Characteristics (2)	Name of method of test used (3)	Result (4)	Desirable limit prescribed standard as per IS NO. 10500:1991, 2012 (5)
1	pH	FSSAI Manual ,2016	8.24	6.5 to 8.5
2	Turbidity	FSSAI Manual ,2016	0.15 NTU	Not more than 5 NTU
3	Alkalinity	FSSAI Manual ,2016	3.98 mg/l	200.0 mg/l
4	Total Hardness (as CaCO ₃)	APHA, 23 rd ,edn 2017	Below Quantification Limit	200.0 mg/l
5	Calcium (as Ca)	APHA,23 rd edn, 2017	Below Quantification Limit	75.0 mg/l
6	Magnesium (as Mg)	APHA,23 rd edn, 2017	Below Quantification Limit	30.0 mg/l
7	Sulphates (as SO ₄ ²⁻)	AOAC;21 st edn,2019	37.68 mg/l	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 rd edn,2017	Below Quantification Limit	1.0 mg/l
11	Chloride (as Cl ⁻)	FSSAI Manual,2016	2.50 mg/l	250.0 mg/l
12	Ammonia	IS: 3025 Part-34	Nil	0.5 mg/l
13	Nitrate (as NO ₃ ⁻)	APHA , 23 rd edn,2017	Below Quantification Limit	45.0 mg/l
14	Total Dissolved solids	FSSAI Manual, 2016	22.0 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 Ca ≤ 0.8 mg/l
Limit of Quantification of Mg = 0.2 mg/l
Limit of Quantification 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 Nitrate ≤ 2.0 mg/l

Remarks :- തൃപ്തികരം

Seal

FOOD ANALYST

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