

Food Safety Department Regional Analytical Laboratory, Ernakulam, Dated. 16.10.2020

## No.11215/2020-21

Description of sample : KWA Water

Sample details : The sample received in Plastic Can

Source : St. Joseph Public School, Njarakkal (Vypin Island), Ernakulam – 682505.

Date of Receipt : 07.10.2020

Date of Analysis : Started on 12.10.2020 and completed 16.10.2020

Sample quantity : 2 L + 125 ML

Physical Appearance : Pale yellow, Agreeable odour

Analytical results

al results :			
Quantity Characteristics	1	Result	Desirable limit prescribed standard as per
·	usea		IS NO. 10500:1991, 2012
·			IS 3025 WHO 1993
(2)	(3)		(5)
рН	IS 3025 Part - II		6.5 to 8.5
Turbidity	IS 3025 Part-10	10.36 NTU	Not more than 5 NTU
Alkalinity	IS 3025 Part -23	46.08 mg/l	200.0 mg/l
Total Hardness (as CaCO <sub>3</sub> )	APHA 23 <sup>rd</sup> edn	64.14 mg/l	200.0 mg/l
Calcium (as Ca)	APHA 23 <sup>rd</sup> edn	21.45 mg/l *	75.0 mg/l
Magnesium (as Mg)	APHA 23 <sup>rd</sup> edn	2.58 mg/l	30.0 mg/l
Sulphates (as SO <sub>4</sub> <sup>2-</sup> )	AOAC,2016	Below	200.0 mg/l
		Quantitative limit	
Iron (as Fe)	Qualitative inorganic Analysis by Vogel	1.2 mg/l	0.3 mg/l
Residual Free Chlorine	IS 3025 Part -26	Nil	0.2 mg/l
Fluoride (as F <sup>-</sup> )	APHA, 2017		1.0 mg/l
Chloride (as Cl <sup>-</sup> )	IS 3025 Part -32		250.0 mg/l
	<del></del>	Below	0.02 mg/l
Nitifite (as NO <sub>2</sub> )	AFTIA ,.2017	Quantitative limit	0.02 1116/1
Ammonia	IS: 3025 Part-34	Nil	0.5 mg/l
Nitrate (as NO <sub>3</sub> )	APHA, 2017	3.55 mg/l	45.0 mg/l
Total Dissolved solids	Instrumental by conductivity meter	88.0 mg/l	500.0 mg/l
Coliform	IS: 1622-1981 RA2019	<2MPN/100 ml	<2 MPN/100ml
E.coli	IS:1622-1981 RA2019	Absent	Shall be Absent
	Quantity Characteristics  (2)  pH  Turbidity  Alkalinity  Total Hardness (as CaCO <sub>3</sub> )  Calcium (as Ca)  Magnesium (as Mg)  Sulphates (as SO <sub>4</sub> <sup>2-</sup> )  Iron (as Fe)  Residual Free Chlorine  Fluoride (as F)  Chloride (as Cl)  Nitrite (as NO <sub>2</sub> )  Ammonia  Nitrate (as NO <sub>3</sub> )  Total Dissolved solids  Coliform	Quantity Characteristics  (2)  (3)  pH  IS 3025 Part - II  Turbidity  IS 3025 Part - 23  Total Hardness (as CaCO <sub>3</sub> )  APHA 23 <sup>rd</sup> edn  Calcium (as Ca)  Magnesium (as Mg)  APHA 23 <sup>rd</sup> edn  Iron (as Fe)  Qualitative inorganic Analysis by Vogel  Residual Free Chlorine  IS 3025 Part -26  Fluoride (as F)  Chloride (as Cl')  Nitrite (as NO <sub>2</sub> ')  APHA , 2017  Ammonia  IS: 3025 Part -32  APHA , 2017  Total Dissolved solids  Instrumental by conductivity meter  Coliform  IS: 1622-1981 RA2019	Quantity Characteristics  (2) (3) (4)  PH IS 3025 Part - II 7.05  Turbidity IS 3025 Part - 23 Alkalinity IS 3025 Part - 23 APHA 23 <sup>rd</sup> edn Calcium (as Ca) APHA 23 <sup>rd</sup> edn APHA 258 mg/l  Sulphates (as SO4 <sup>2-1</sup> ) AOAC,2016 Below Quantitative limit  Iron (as Fe) APHA, 2017 Below Quantitative limit Chloride (as Cl') Nitrite (as NO2 ) APHA, 2017 Below Quantitative limit Ammonia IS: 3025 Part - 32 APHA, 2017 Below Quantitative limit Ammonia IS: 3025 Part - 34 Nil Nitrate (as NO3) APHA, 2017 APHA,

Remarks: : ഇരുമ്പിന്റെ അംശം കൂടുതലാണ്.

FOOD ANALYST

(Seal)

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 of full without permission is prohibited