

Environmental Monitoring Service

Testing and research laboratory for water, soil and food products

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Test Report

Customer name: Rama Water Filters

Nature of sample: Water

Sample ID: Filter PTS - AA

Analysis started: 05/11/2021

Analysis completed: 30/12/2021

Sample collected: by lab person

Lab ID: 400

Objective: To find out life time of the filter for fluoride removal.

Experiment: Filter was conditioned by passing 10 L tap water and check for flow rate before trial started.

Tap water having TDS 171 mg/l and pH 6.4 is spiked with fluoride to get 2 ppm and passed through the filter, samples were collected in a period of intervals and test for the removal rate of fluoride and flow rate was given below.

Delta P - 30 cm

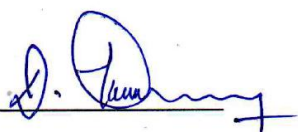
Water passed in liters	Flow rate L/hr	Initial F ⁻ ppm	Residue after filter, ppm	Removal %
250	2.6	2.0	< 0.1	> 95
500	2.8	2.0	< 0.1	> 95
750	2.6	2.0	< 0.1	> 95
1000	2.9	2.0	< 0.1	> 95

Delta P - 60 cm

Water passed in liters	Flow rate L/hr	Initial F ⁻ ppm	Residue after filter, ppm	Removal %
1250	3.9	2.0	0.13	93.5
1500	4.1	2.0	0.17	91.6
1750	3.7	2.0	0.31	84.3
2000	3.8	2.0	0.44	78.2

Method of testing for Fluoride - 4500-F-.C, APHA 23rd 2017

Analyst



Lab executive

