

**KERALA WATER AUTHORITY****QUALITY CONTROL DISTRICT LABORATORY**

KALPETTA, WAYANAD

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REPORT ON ANALYSIS OF WATER


Code No.BW 87/2021

I)	Source of sample : Open Well	Sample brought by party
II)	Date of Collection : 18. 06.2021	III) Date of Testing: 18.06.2021
IV)	Address Amrita Vidyalayam, Amritagiri, MNDY	
V)	Receipt No. 0496605	

Sl. No.	Characteristics	Unit	Desirable Limits	Permissible Limit in the absence of alternate source	Actual Contents
			IS 10500:2012		
PHYSICAL AND CHEMICAL ANALYSIS					
1	Turbidity	(NTU)	1	5	0.2
2	pH		6.5 - 8.5	6.5 - 8.5	6.7
3	Electrical Conductivity	micromhos/cm			179
4	Acidity	mg/liter			7
5	Alkalinity (Total)	mg/liter	200	600	36
6	Total dissolved solids	mg/liter	500	2000	108
7	Total Hardness (as CaCO ₃)	mg/liter	200	600	46
8	Calcium (as Ca)	mg/liter	75	200	13.6
9	Magnesium (as Mg)	mg/liter	30	100	2.9
10	Chloride (as Cl)	mg/liter	250	1000	28
11	Flouride (as F)	mg/liter	1	1.5	ND
12	Iron (as Fe)	mg/liter	1	1	0.07
13	Nitrate	mg/liter	45	45	23
14	Sulphate	mg/liter	200	400	1.3
15	Phosphate[as PO ₄]	mg/liter			ND
16	Ammonia	mg/liter	0.5	0.5	ND
BACTERIOLOGICAL ANALYSIS					
1	No. of colony forming unit of coliforms in 100ml.				30
2	No. of colony forming unit of E.coli in 100ml.				Nil

Remarks: Coliforms present

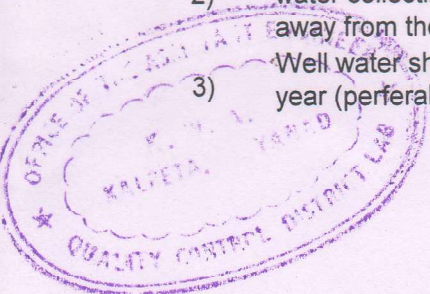
ND: Not Detectable

Chemist 

Assistant Engineer

General Suggestions based on the information furnished during the interaction:

- Well surrounding should be kept dry and clean.
To avoid wastewater intrusion, septic tank, soak pit, solid waste pit, kitchen/laundry waste water collecting pit etc. should properly be constructed and maintained minimum 15 meters away from the well.
- Well water should be analysed (Physical, Chemical and Bacteriological) at least once in every year (preferably in rainy season)



ASSISTANT ENGINEER
QUALITY CONTROL DIST. LAB
KERALA WATER AUTHORITY
KALPETTA, WAYANAD (DT)