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# TEST REPORT

**Address of the Customer:**

Vijaya College, South End Circle  
R.V.Road, Basavanagudi  
Bangalore -560004

**Report No.** : DWD/2021/03/0348

**Date of Receipt** : 15/03/2021

**Date of Analysis** : 15/03/2021

**Date of Completion** : 18/03/2021

**Date of Report** : 19/03/2021

**Job Order No.** : DWD/2021/03/0348

**Sampling Type** : Grab

**Sampling Point** : Direct Bore well water tap

**Your Reference** : Verbal

**Sample Particulars** : Bore well water

**Date of Sampling** : 15/03/2021

**Sample Qty.** : 2 Ltrs+250ml

**Sample Marked** : Hostel

**Sample Description** : Colorless, odorless, transparent liquid.

Sl. No.	TESTS	Units	Result	Requirement	Acceptable Limits	Permissible limit in the absence of alternate source	Method
				(As per IS 10500:2012)			
<b>Chemical Test - Environment</b>							
1	Color	Hazen	<5(BDL)	5	15		IS 3025 (Part-4)1983 (Reaff:2002)
2	Odor	----	Agreeable	Agreeable	Agreeable		IS 3025 (Part-5)1983(Reaff:2017)
3	pH Value	----	6.7	6.5-8.5	No relaxation		IS 3025 (Part-11)1983 (Reaff:2017)
4	Taste	-----	Agreeable	Agreeable	Agreeable		IS 3025 (Part-8)
5	Turbidity	NTU	0.4	1	5		IS 3025 (Part-10)1984 (Reaff:2017)
6	Total Dissolved Solids	mg/L	390	500	2000		IS 3025 (Part-16)1984 (Reaff:2017)
7	Calcium as Ca	mg/L	48	75	200		IS 3025 (Part-40)1991(Reaff:2014)
8	Chloride as Cl	mg/L	80	250	1000		IS 3025 (Part-32)1988 (Reaff:2014)
9	Fluoride as F	mg/L	0.7	1.0	1.5		APHA 23rd Edition 4500 -F:2017
10	Residual Free Chlorine	mg/L	<0.1(BDL)	0.2	1.0		IS 3025 (Part-26) 1984 (Reaff :2014)
11	Iron as Fe	mg/L	<0.1(BDL)	1.0	No relaxation		IS 3025 (Part-53)2003 (Reaff :2014)
12	Magnesium as Mg	mg/L	25	30	100		IS 3025 (Part-46)1994 (Reaff :2014)
13	Mineral Oil	mg/L	<0.1(BDL)	0.5	No relaxation		IS 3025 (Part-39)1991 (Reaff:2009)
14	Nitrate as No3	mg/L	2	45	No relaxation		APHA 23rd Edition 4500-NO3:2017
15	Sulphate as SO4	mg/L	60	200	400		APHA 23rd Edition 4500 -E:2017
16	Total Alkalinity as CaCo3	mg/L	173	200	600		IS 3025 (Part-23)1986 (Reaff:2014)
17	Total Hardness as CaCo3	mg/L	224	200	600		IS 3025 (Part-21)2009 (Reaff:2014)
18	Chromium as Cr6+	mg/L	<0.05(BDL)	0.05	No relaxation		IS 3025 (Part-52)2003 (Reaff:2014)
19	Ammonia (as total ammonia- N)	mg/L	<0.1(BDL)	0.5	No relaxation		IS 3025 (Part-34)1988 (Reaff:2009)
20	Chloramines as Cl2	mg/L	<0.1(BDL)	4.0	No relaxation		IS 3025 (Part-26) 1984 (Reaff :2009)

Tested by

Authorised Signatory



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				(As per IS 10500:2012)		
21	Phenolic Compounds as C6H5OH	mg/L	<0.001(BDL)	0.001	0.002	IS 3025 (Part-43)1992
22	Anionic detergents as MBAS	mg/L	<0.1(BDL)	0.2	1.0	Annex K of IS 13428
23	Sulphide as H2S	mg/L	<0.05(BDL)	0.05	No relaxation	IS 3025 (Part-29)2009
24	Cyanide as CN	mg/L	BDL	0.05	No relaxation	IS 3025 (Part-27)2003

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Sl. No.	TESTS	Units	Result	Requirement Acceptable Limits	Permissible limit in the absence at alternate source	Method
				(As per IS 10500:2012)		
<b>Heavy Metals -Environment</b>						
1	Aluminum as Al	mg/L	<0.022(BDL)	0.03	0.2	APHA 23rd Edition 3120 B:2017 (By ICP-OES)
2	Boron as B	mg/L	<0.03(BDL)	0.5	2.4	APHA 23rd Edition 3120 B:2017 (By ICP-OES)
3	Copper as Cu	mg/L	<0.03(BDL)	0.05	1.5	APHA 23rd Edition 3120 B:2017 (By ICP-OES)
4	Manganese as Mn	mg/L	<0.1(BDL)	0.1	0.3	APHA 23rd Edition 3120 B:2017 (By ICP-OES)
5	Selenium as Se	mg/L	<0.01(BDL)	0.01	No relaxation	APHA 23rd Edition 3120 B:2017 (By ICP-OES)
6	Zinc as Zn	mg/L	<0.02(BDL)	5	15	APHA 23rd Edition 3120 B:2017 (By ICP-OES)
7	Cadmium as Cd	mg/L	<0.003(BDL)	0.003	No relaxation	APHA 23rd Edition 3120 B:2017 (By ICP-OES)
8	Lead as Pb	mg/L	<0.01(BDL)	0.01	No relaxation	APHA 23rd Edition 3120 B:2017 (By ICP-OES)
9	Barium as Ba	mg/L	<0.03(BDL)	0.7	No relaxation	APHA 23rd Edition 3120 B:2017 (By ICP-OES)
10	Silver as Ag	mg/L	<0.1(BDL)	0.1	No relaxation	APHA 23rd Edition 3120 B:2017 (By ICP-OES)
11	Molybdenum as Mo	mg/L	<0.03(BDL)	0.07	No relaxation	APHA 23rd Edition 3120 B:2017 (By ICP-OES)
12	Nickel as Ni	mg/L	<0.02(BDL)	0.02	No relaxation	APHA 23rd Edition 3120 B:2017 (By ICP-OES)
13	Total Arsenic as As	mg/L	<0.01(BDL)	0.01	No relaxation	APHA 23rd Edition 3120 B:2017 (By ICP-OES)
14	Mercury as Hg	mg/L	<0.001(BDL)	0.001	No relaxation	APHA 23rd Edition 3120 B:2017 (By ICP-OES)

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				(As per IS 10500:2012)		
<b>Microbiological Test - Environment</b>						
1	Total coliform bacteria	MPN/100ml	<1	Shall not be detected in 100ml	----	IS 1622-1981RA 2019
2	Escherichia coli	MPN/100ml	<1	Shall not be detected in 100ml	-----	IS 1622-1981RA 2019

Remarks : The given sample meets to Permissible limits as per IS 10500:2012 for the above Physico-chemical test & bacteriological test.

Note: <1 Indicates Absent, Sample preserved @2-8°C.

BDL-Below Detection Limit

\*\*\*End of Report\*\*\*

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