

DIGITAL TEST CERTIFICATE

Issued To : GYAN ANANT VIDYALAYA
Belongs to Mobius Foundation
Khasra No. 1053, Village Attrouli, Pilkhuwa
Ghaziabad, Delhi - 245304

Report No: 11-240621-02
Report Date: 05/07/2021
Sample Received On : 24/06/2021
Sampled By: AES Labs (SM 1.4)

Description : Borewell Water, Sample collected near Auditorium
Submersible Pump

Analysis Start Date : 24/06/2021
Analysis End Date : 05/07/2021

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Drinking Water - Tests as per IS 10500:2012

RESULTS

S.No.	Parameter	Test Method	Results	Units	Limit	Extended Limits
Chemical Residues in Water						
Parameters Concerning Toxic Substances						
1	Bromoform	APHA 6232 (B)	BLQ (<0.03)	mg/l	Max 0.1	-
2	Dibromochloromethane	APHA 6232 (B)	BLQ (<0.03)	mg/l	Max 0.1	-
3	Bromodichloromethane	APHA 6232 (B)	BLQ (<0.03)	mg/l	Max 0.06	-
4	Chloroform	APHA 6232 (B)	BLQ (<0.03)	mg/l	Max 0.2	-
Pesticide Residues						
5	Alachlor	AES/RES/SOP 5.0	BLQ (<0.005)	µg/l	Max 20	-
6	Atrazine	AES/RES/SOP 5.0	BLQ (<0.005)	µg/l	Max 2	-
7	Aldrin	AES/RES/SOP 5.0	BLQ (<0.005)	µg/l	Max 0.03	-
8	Dieldrin	AES/RES/SOP 5.0	BLQ (<0.005)	µg/l	Max 0.03	-
9	HCH Alpha	AES/RES/SOP 5.0	BLQ (<0.005)	µg/l	Max 0.01	-
10	HCH beta	AES/RES/SOP 5.0	BLQ (<0.005)	µg/l	Max 0.04	-

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G.M (Environment Lab)
AES Laboratories (P) LTD.
Date: 05/07/2021 02:31:03

Digitally Signed By: Prabhat Soni
HOD (Microbiology Lab)
AES Laboratories (P) LTD.
Date: 05/07/2021 02:31:04

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Pesticide Residues						
11	Butachlor	AES/RES/SOP 5.0	BLQ (<0.005)	µg/l	Max 125	-
12	Chlorpyrifos	AES/RES/SOP 5.0	BLQ (<0.005)	µg/l	Max 30	-
13	HCH delta	AES/RES/SOP 5.0	BLQ (<0.005)	µg/l	Max 0.04	-
14	2,4-D	AES/RES/SOP 5.0	BLQ (<0.005)	µg/l	Max 30	-
15	Ethion	AES/RES/SOP 5.0	BLQ (<0.005)	µg/l	Max 3	-
16	Phorate	AES/RES/SOP 5.0	BLQ (<0.005)	µg/l	Max 2	-
Biological Water						
Microbiological Analysis						
17	Coliform	IS 15185 : 2002	Absent	cfu/100ml	Absent	-
18	E.coli	IS 15185 : 2002	Absent	cfu/100ml	Absent	-
General Parameters Concerning Substances Undesirable						
19	Aluminium (as Al)	IS 3025: (Pt-2):2004	0.012	mg/l	Max 0.03	Max 0.2

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General Parameters Concerning Substances Undesirable						
20	Ammonia As Total Ammonia - N	IS 3025: (Pt-34):1988	BLQ (<0.1)	mg/l	Max 0.5	No Relaxation
21	Anionic surfactant active agents (as MBAS)	IS 13428: 2005 (Annex K)	BLQ (<0.10)	mg/l	Max 0.2	Max 1
22	Calcium (as Ca)	IS 3025: (Pt-40):1991	97.22*	mg/l	Max 75	Max 200
23	Chloramines (as Cl ₂)	IS 3025: (Pt-26):1986	BLQ (<0.1)	mg/l	Max 4	No Relaxation
24	Chloride (as Cl)	IS 3025: (Pt-32):1988	8.05	mg/l	Max 250	Max 1000
25	Fluoride (as F)	IS 3025: (Pt-60):2008	0.897	mg/l	Max 1	Max 1.5
26	Mineral oil	IS 3025: (Pt-39):1991	BLQ (<0.01)	mg/l	Max 0.5	No Relaxation
27	Nitrate (as NO ₃)	IS 3025: (Pt-34):1988	1.23	mg/l	Max 45	No Relaxation
28	Phenolic compound (as C ₆ H ₅ OH)	IS 3025: (Pt-43):1992	BLQ (<0.001)	mg/l	Max 0.001	Max 0.002

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General Parameters Concerning Substances Undesirable						
29	Sulphate (as SO ₄)	IS 3025: (Pt-24):1986	19.67	mg/l	Max 200	Max 400
30	Sulphide (as H ₂ S)	IS 3025: (Pt-29):1986	Nil	mg/l	Max 0.05	No Relaxation
31	Alkalinity Total (as CaCO ₃)	IS 3025: (Pt-23):1986	355.2*	mg/l	Max 200	Max 600
32	Total Hardness (as CaCO ₃)	IS 3025: (Pt-21):2009	435.12*	mg/l	Max 200	Max 600
33	Selenium (as Se)	IS 3025: (Pt-2):2004	BLQ (<0.005)	mg/l	Max 0.01	No Relaxation
34	Silver (as Ag)	IS 3025: (Pt-2):2004	BLQ (<0.05)	mg/l	Max 0.1	No Relaxation
35	Zinc (as Zn)	IS 3025: (Pt-2):2004	BLQ (<0.05)	mg/l	Max 5	Max 15
36	Barium (as Ba)	IS 3025: (Pt-2):2004	0.203	mg/l	Max 0.7	No Relaxation
37	Boron (as B)	IS 3025: (Pt-2):2004	BLQ (<0.05)	mg/l	Max 0.5	Max 2.4

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General Parameters Concerning Substances Undesirable						
38	Copper (as Cu)	IS 3025: (Pt-2):2004	BLQ (<0.02)	mg/l	Max 0.05	Max 1.5
39	Iron (as Fe)	IS 3025: (Pt-2):2004	0.078	mg/l	Max 1	No Relaxation
40	Manganese (as Mn)	IS 3025: (Pt-2):2004	0.023	mg/l	Max 0.1	Max 0.3
41	Magnesium (as Mg)	APHA-3500 (B)	46.67*	mg/l	Max 30	Max 100
42	Residual free chlorine	IS 3025: (Pt-26):1986	Nil	mg/l	Min 0.2	Min 1
Organoleptic and Physical Parameters						
43	Colour	IS 3025: (Pt-4):1983	<1.0	Hazen	Max 5	Max 15
44	pH value at 25°C	IS 3025: (Pt-11):1983	7.82	-	6.5-8.5	No Relaxation
45	Taste	IS 3025: (Pt-8):1984	Agreeable	-	Agreeable	Agreeable
46	Odour	IS 3025: (Pt-6):1983	Agreeable	-	Agreeable	Agreeable

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S.No.	Parameter	Test Method	Results	Units	Limit	Extended Limits
Organoleptic and Physical Parameters						
47	Turbidity	IS 3025: (Pt-10):1984	<1.0	NTU	Max 1	Max 5
48	Total Dissolved Solids	IS 3025 (Pt-16) : 1984	648*	mg/l	Max 500	Max 2000
Parameters Concerning Toxic Substances						
49	Cyanide (as CN)	APHA 4500 (E)	BLQ (<0.01)	mg/l	Max 0.05	No Relaxation
50	Cadmium (as Cd)	IS 3025: (Pt-2):2004	BLQ (<0.001)	mg/l	Max 0.003	No Relaxation
51	Lead (as Pb)	IS 3025: (Pt-2):2004	BLQ (<0.01)	mg/l	Max 0.01	No Relaxation
52	Mercury (as Hg)	IS 3025: (Pt-2):2004	BLQ (<0.0005)	mg/l	Max 0.001	No Relaxation
53	Molybdenum (as Mo)	IS 3025: (Pt-2):2004	BLQ (<0.01)	mg/l	Max 0.07	No Relaxation
54	Nickel (as Ni)	IS 3025: (Pt-2):2004	BLQ (<0.01)	mg/l	Max 0.02	No Relaxation
55	Arsenic (as As)	IS 3025: (Pt-2):2004	BLQ (<0.01)	mg/l	Max 0.01	No Relaxation

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RESULTS

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Parameters Concerning Toxic Substances						
56	Chromium (as Cr)	IS 3025: (Pt-2):2004	BLQ (<0.01)	mg/l	Max 0.05	No Relaxation
57	Polychlorinated biphenyle (PCB)	AES/RES/SOP 5.0	BLQ (<0.00001)	mg/l	Max 0.0005	No relaxation
58	Polynuclear aromatic hydrocarbons (PAH)	AES/RES/SOP 5.0	BLQ (<0.00001)	mg/l	Max 0.0001	No relaxation
Parameters Concerning Radioactive Substances						
59	Alpha Emitters	IS 14194: (Pt-2):2007	<0.1	Bq/lit	Max 0.1	-
60	Beta Emitters	IS 14194: (Pt-1):1994	<1.0	Bq/lit	Max 1	-

Remarks : Results marked with a * do not meet the desirable limits but fall within extended limits. The water can be used in the absence of an alternate source.

The conformity decisions are based on guard banded acceptance limits calculated based on the expanded uncertainty of the result (Decision Rule LM 7.8.1). The decision has a confidence level of approximately 95 %, with an error probability of approximately 5%.

Note(s) : BLQ means Below Limit of Quantification. The values enclosed in brackets are the limit of Quantification of the mentioned test method.

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