



Water from Air
Atmospheric Water Generator
Fresh Drinking Water
Independent Test Results
January, 2021

PROPRIETARY AND CONFIDENTIAL

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I. CHEMICAL TESTING : Water / Residues in Water

SL. NO.	PARAMETER TESTED	UNIT OF MEASUREMENT	REQUIREMENT (ACCEPTABLE LIMIT)	PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE	TEST RESULT	LIMIT OF QUANTIFICATION (LOQ)	TEST METHOD
1	COLOUR	Hazen	Max 5	Max 15	1	1	IS 3025 (Part 4) : 1983, Reaff. 2002
2	ODOUR	--	AGREEABLE	AGREEABLE	Agreeable	--	IS 3025 (Part 5) : 2018
3	pH VALUE	pH units	6.5 to 8.5	6.5 to 8.5	7.63 at 25° C	1	IS 3025 (Part 11) : 1983, Reaff. 2002
4	TASTE	--	AGREEABLE	AGREEABLE	Agreeable	--	IS 3025 (Part 8) : 1984, Reaff. 2002
5	TURBIDITY	NTU	Max 1	Max 5	< 1	1	IS 3025 (Part 10) : 1984, Reaff. 2002
6	TOTAL DISSOLVED SOLIDS	mg/l	Max 500	Max 2000	27.0	10	IS 3025 (Part 16) : 1984, Reaff. 2006
7	ALUMINIUM (as Al)	mg/l	Max 0.03	Max 0.2	< LOQ	0.02	IFL C/OSP W/010
8	AMMONIA (as Total Ammonia - N)	mg/l	Max 0.5	Max 0.5	< LOQ	0.1	IFL C/QSP W/026
9	ANIONIC DETERGENTS (as MBAS)	mg/l	Max 0.2	Max 1.0	< LOQ	0.1	Annex - K of IS 13428 : 2005
10	BARIUM (as Ba)	mg/l	Max 0.7	Max 0.7	< LOQ	0.0005	APHA 23rd Ed. 3125
11	BORON (as B)	mg/l	Max 0.5	Max 2.4	< LOQ	0.2	Annex - H of IS 13428 : 2005
12	CALCIUM (as Ca)	mg/l	Max 75	Max 200	< LOQ	2	IS 3025 (Part 40) : 1991, Reaff. 2009
13	CHLORAMINES (as Cl ₂)	mg/l	Max 4.0	Max 4.0	< LOQ	0.1	APHA 23rd Ed. 4500 Cl-G



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14	CHLORIDE (as Cl ⁻)	mg/l	Max 250	Max 1000	< LOQ	5	IS 3025 (Part 32) : 1988, Reaff. 2007
15	COPPER (as Cu)	mg/l	Max 0.05	Max 1.5	< LOQ	0.0005	APHA 23rd Ed. 3125
16	FLUORIDE (as F ⁻)	mg/l	Max 1.0	Max 1.5	< LOQ	0.3	IFL C/OSP W/009
17	RESIDUAL FREE CHLORINE	mg/l	Min 0.2 (if chlorinated)	Min 1 (if chlorinated)	< LOQ	0.01	IS 3025 (Part 26) : 1986, Reaff. 2003
18	IRON (as Fe)	mg/l	Max 1.0	Max 1.0	< LOQ	0.0005	APHA 23rd Ed. 3125
19	MAGNESIUM (as Mg)	mg/l	Max 30	Max 100	< LOQ	0.5	IS 3025 (Part 46) : 1994, Reaff. 2003
20	MANGANESE (as Mn)	mg/l	Max 0.1	Max 0.3	< LOQ	0.0005	APHA 23rd Ed. 3125
21	MINERAL OIL	mg/l	Max 0.5	Max 0.5	< LOQ	0.1	IS 3025 (Part 39) : 1991, Reaff. 2003
22	NITRATE (as NO ₃ ⁻)	mg/l	Max 45	Max 45	< LOQ	1	APHA 23rd Ed. 4500 NO. 3-B
23	PHENOLIC COMPOUNDS (as C ₆ H ₅ OH)	mg/l	Max 0.001	Max 0.002	< LOQ	0.001	IS 3025 (Part 43) : 1992, Reaff. 2003
24	SELENIUM (as Se)	mg/l	Max 0.01	Max 0.01	< LOQ	0.0005	APHA 23rd Ed. 3125
25	SILVER (as Ag)	mg/l	Max 0.1	Max 0.1	< LOQ	0.0005	APHA 23rd Ed. 3125
26	SULPHATE (as SO ₄ ²⁻)	mg/l	Max 200	Max 400	< LOQ	5	IS 3025 (Part 24) : 1986, Reaff. 2009
27	SULPHIDE (as H ₂ S)	mg/l	Max 0.05	Max 0.05	< LOQ	0.02	IS 3025 (Part 29) : 1986, Reaff. 2003
28	TOTAL ALKALINITY (as CaCO ₃)	mg/l	Max 200	Max 600	27.8	5	IS 3025 (Part 23) : 1986, Reaff. 2003
29	TOTAL HARDNESS (CaCO ₃)	mg/l	Max 200	Max 600	< LOQ	5	IS 3025 (Part 21) : 2009
30	ZINC (as Zn)	mg/l	Max 5	Max 15	< LOQ	0.0005	APHA 23rd Ed. 3125
31	CADMIUM (as Cd)	mg/l	Max 0.003	Max 0.003	< LOQ	0.0005	APHA 23rd Ed. 3125
32	CYANIDE (as CN ⁻)	mg/l	Max 0.05	Max 0.05	< LOQ	0.01	IFL C/OSP W/013
33	LEAD (as Pb)	mg/l	Max 0.01	Max 0.01	< LOQ	0.0005	APHA 23rd Ed. 3125
34	MERCURY (as Hg)	mg/l	Max 0.001	Max 0.001	< LOQ	0.0005	APHA 23rd Ed. 3125
35	MOLYBDENUM (as Mo)	mg/l	Max 0.07	Max 0.07	< LOQ	0.0005	APHA 23rd Ed. 3125
36	NICKEL (as Ni)	mg/l	Max 0.02	Max 0.02	< LOQ	0.0005	APHA 23rd Ed. 3125



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37	PESTICIDES						
	1) alpha-HCH	µg/l	Max 0.01	Max 0.01	Not Detected	0.01	USEPA 525.2
	2) beta - HCH	µg/l	Max 0.04	Max 0.04	Not Detected	0.01	USEPA 525.2
	3) gamma- HCH (Lindane)	µg/l	Max 2	Max 2	Not Detected	0.01	USEPA 525.2
	4) delta - HCH	µg/l	Max 0.04	Max 0.04	Not Detected	0.01	USEPA 525.2
	5) Butachlor	µg/l	Max 125	Max 125	Not Detected	0.05	USEPA 525.2
	6) Alachlor	µg/l	Max 20	Max 20	Not Detected	0.05	USEPA 525.2
	7) Ethion	µg/l	Max 3	Max 3	Not Detected	0.05	USEPA 525.2
	8) Chlorpyrifos	µg/l	Max 30	Max 30	Not Detected	0.05	USEPA 525.2
	9) Atrazine	µg/l	Max 2	Max 2	Not Detected	0.05	USEPA 525.2
	10) Isoproturon	µg/l	Max 9	Max 9	Not Detected	0.05	USEPA 525.2
	11) Monocrotophos	µg/l	Max 1	Max 1	Not Detected	0.05	USEPA 525.2
	12) Malathion (Sum of malathion and malaaxon)	µg/l	Max 190	Max 190	Not Detected	0.05	USEPA 525.2
	13) Methyl parathion (Sum of methyl parathion and methyl paraoxon)	µg/l	Max 0.3	Max 0.3	Not Detected	0.05	USEPA 525.2
	14) Aldrin and Dieldrin	µg/l	Max 0.03	Max 0.03	Not Detected	0.01	USEPA 525.2
	15) Endosulfan (sum of alpha, beta isomers and sulphate)	µg/l	Max 0.4	Max 0.4	Not Detected	0.05	USEPA 525.2
	16) DDT (o,p and p,p - isomers of DDT, DDE and DDD)	µg/l	Max 1	Max 1	Not Detected	0.05	USEPA 525.2
	17) 2,4- D	µg/l	Max 30	Max 30	Not Detected	0.1	USEPA 525.2
	18) Phorate (Sum of Phorate, Phorate Sulfoxide & Phorate Sulfone)	µg/l	Max 2	Max 2	Not Detected	0.05	USEPA 525.2
38	POLYCHLORINATED BIPHENYLS (PCBs)						
	1) 2,4,4' - Trichlorobiphenyl	mg/l	--	--	Not Detected	0.00005	USEPA 525.2
	2) 2,2',5,5' - Tetrachlorobiphenyl	mg/l	--	--	Not Detected	0.00005	USEPA 525.2
	3) 2,2',4,5,5' - Pentachlorobiphenyl	mg/l	--	--	Not Detected	0.00005	USEPA 525.2
	4) 2,2',3,4,4',5' - Hexachlorobiphenyl	mg/l	--	--	Not Detected	0.00005	USEPA 525.2
	5) 2,2',4,4',5,5' - Hexachlorobiphenyl	mg/l	--	--	Not Detected	0.00005	USEPA 525.2
	6) 2,2',3,4,4',5,5' - Heptachlorobiphenyl	mg/l	--	--	Not Detected	0.00005	USEPA 525.2
	7) PCB (sum of i - vi)	mg/l	Max 0.0005	Max 0.0005	Not Detected	--	
39	POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)						
	1) Benzo (b) Flouranthene	mq/l	--	--	Not Detected	0.00001	USEPA 525.2
	2) Benzo (k) Flouranthene	mq/l	--	--	Not Detected	0.00001	USEPA 525.2
	3) Indeno (1, 2, 3-cd) pyrene	mq/l	--	--	Not Detected	0.00001	USEPA 525.2
	4) Benzo (ghi) perylene	mq/l	--	--	Not Detected	0.00001	USEPA 525.2
	5) PAH (sum of i - iv)	mq/l	Max 0.0001	Max 0.0001	Not Detected	0.00001	
40	TOTAL ARSENIC (as As)	mg/l	Max 0.01	Max 0.01	< LOQ	0.0005	APHA 23rd Ed. 3125
41	TOTAL CHROMIUM (as Cr)	mg/l	Max 0.05	Max 0.05	< LOQ	0.0005	APHA 23rd Ed. 3125
42	TRIHALOMETHANES						
	1) Chloroform	mq/l	Max 0.2	Max 0.2	Not Detected	0.00025	USEPA 524.2
	2) Bromodichloromethane	mq/l	Max 0.06	Max 0.06	Not Detected	0.00025	USEPA 524.2



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	3) Dibromochloromethane	mq/l	Max 0.1	Max 0.1	Not Detected	0.00025	USEPA 524.2
	4) Bromoform	mq/l	Max 0.1	Max 0.1	Not Detected	0.00025	USEPA 524.2

Remarks : This sample conforms to the IS 10500:2012 with respect to the above parameters.



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