



GEO-CHEM LABORATORIES PVT.LTD.
Pragati, Adjacent to Crompton Greaves,
Kanjur Marg (E), Mumbai 400042.
Tel : +91 22 61915100 Fax : +91 22 61915101
Email : laboratory@geochem.net.in

International
Independent Inspection
&
Testing Company

TEST CERTIFICATE

Analysis No. : MISC/18/02/025699
Date : 26/02/2018

Party's Name & Address : Watermaker (India) Pvt. Ltd.,
Elphinstone Bldg., 1st floor, 10 Veer Nariman Road,
Fort, Mumbai - 400 001.

Ref. No. and Date : Letter Date 14/02/2018

Sample Received on : 15/02/2018

Date of Analysis : 16/02/2018 - 26/02/2018

Sample Described as : Atmospheric Drinking Water

Tested to Specification : IS-10500-2012 With Amendment No. 1 June 2015 For Drinking Water

Stamped / Seal by : Sample drawn and sealed by Mr. Pralhad Sangrel of
Geo-Chem Laboratories Pvt. Ltd. On 15/02/2018
Seal No.: 300597, 300598, 300599

ID Mark : Place and address of sampling : Samrth Aircon Pvt. Ltd.,
Plot No. 2 & 3, Gut No. 296/2, 302/2 &
301, Kharivli Village, Taluka Vada,
Palghar.

Location of sample drawn : Company Main Gate

Source of water sample : Atmospheric Drinking Water

Sr. No.	Parameters	Method	Requirement (Acceptable Limit)	Results	Detection Limit	Unit of Measure
Table 1 Organoleptic and Physical Parameters						
1.	Colour (True Colour)	IS-3025-Part 4-1983	5 max.	N.D.	1.0	Hazen unit
2.	Odour	IS-3025-Part 5-1983	Agreeable	Agreeable	---	---
3.	pH value	IS-3025-Part 11-1983	6.5 to 8.5	6.60	1.0	---
4.	Taste	IS-3025-Part 8-1984	Agreeable	Agreeable	---	---
5.	Turbidity	IS-3025-Part 10-1984	1.0 max.	N.D	0.1	NTU
6.	Dissolved Solids	IS-3025-Part 16-1984	500 max.	25.0	1.0	mg/l

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Table 2 General parameters concerning substances Undesirable in Excessive Amounts						
7.	Aluminium (as Al)	IS-3025-Part 2-2004	0.03 max.	N.D.	0.010	mg/l
8.	Ammonium (total ammonia-N)	IS-3025-Part 34-1988	0.5 max.	0.15	0.075	mg/l
9.	Anionic Detergent (as MBAS)	IS-13428-2005 (Annex-K)	0.2 max.	N.D.	0.1	mg/l
10.	Barium (as Ba)	Annex F of IS-13428	0.7 max	N.D.	0.5	mg/l
11.	Boron (as B)	IS-3025-Part 2-2004	0.5 max.	0.014	0.010	mg/l
12.	Calcium (as Ca)	IS-3025-Part 2-2004	75 max.	3.91	0.1	mg/l
13.	Total Chloramines	IS-3025-Part 26-1986	4.0 max.	N.D.	1.0	mg/l
14.	Chloride (as Cl)	IS-3025-Part 32-1988	250 max.	1.36	0.1	mg/l
15.	Copper (as Cu)	IS-3025-Part 2-2004	0.05 max.	N.D.	0.010	mg/l
16.	Fluoride (as F)	IS-3025-Part 60-2008	1.0 max.	N.D.	0.1	mg/l
17.	Residual free Chlorine	IS-3025-Part 26-1986	* 0.2 min.	N.D.	0.1	mg/l
18.	Iron (as Fe)	IS-3025-Part 2-2004	1.0 max.	N.D.	0.010	mg/l
19.	Magnesium (as Mg)	IS-3025-Part 2-2004	30 max.	1.27	0.10	mg/l
20.	Manganese (as Mn)	IS-3025-Part 2-2004	0.1 max.	N.D.	0.010	mg/l
21.	Mineral Oil	IS-3025-Part 39-1991	0.5 max.	N.D.	0.5	mg/l
22.	Nitrate (as NO ₃)	IS-3025-Part 34-1988	45 max.	N.D.	1.0	mg/l
23.	Phenolic Compounds (as C ₆ H ₅ OH)	IS-3025-Part 43-1992	0.001 max.	N.D.	0.001	mg/l
24.	Selenium (as Se)	IS-3025-Part 2-2004	0.01 max.	N.D.	0.005	mg/l
25.	Silver (as Ag)	IS-3025-Part 2-2004	0.1 max.	N.D.	0.005	mg/l
26.	Sulphate (as SO ₄)	IS-3025-Part 24-1986 (Gravimetric)	** 200 max.	5.34	10.0	mg/l
27.	Sulphide (H ₂ S)	IS-3025-Part 29-1986	0.05 max.	N.D.	0.025	mg/l
28.	Total Alkalinity (as CaCO ₃)	IS-3025-Part 23-1986	200 max.	9.92	1.0	mg/l
29.	Total Hardness (as CaCO ₃)	IS-3025-Part 21-2009	200 max.	16.16	1.0	mg/l
30.	Zinc (as Zn)	IS-3025-Part 2-2004	5.0 max.	0.11	0.010	mg/l

Table 3]: Parameters Concerning Toxic Substances :

31.	Cadmium (as Cd)	IS-3025-Part 2-2004	0.003 max.	N.D.	0.003	mg/l
32.	Cyanide (as CN)	IS-3025-Part 27-1986	0.05 max.	N.D.	0.020	mg/l
33.	Lead (as Pb)	IS-3025-Part 2-2004	0.01 max.	N.D.	0.005	mg/l
34.	Mercury (as Hg)	APHA 3125 B	0.001 max.	N.D.	0.0002	mg/l
35.	Molybdenum (as Mo)	IS-3025-Part 2-2004	0.07 max.	N.D.	0.010	mg/l
36.	Nickel (as Ni)	IS-3025-Part 2-2004	0.02 max.	N.D.	0.010	mg/l
37.	Total Arsenic (as As)	IS-3025-Part 2-2004	0.01 max.	N.D.	0.005	mg/l
38.	Chromium (as Cr+6)	IS-3025-Part 2-2004	0.05 max.	N.D.	0.010	mg/l
39.	Polychlorinated biphenyl (PCB)	GCLPL/QS/CRA/5.4/11 (GCMSMS)	0.0005	N.D.	0.0001	mg/l
40.	Polynuclear aromatic hydrocarbon (PAH)	GCLPL/QS/CRA/5.4/11 (GCMSMS)	0.0001	N.D.	0.0001	mg/l

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41.	<u>Individual Pesticides Residues</u>	GCLPL/QS/CRA/5.4/07, (LCMSMS/GCMSMS)				
	Alachor		20	N.D.	0.015	µg/l
	Atrazine		2	N.D.	0.015	µg/l
	Aldrin and Dieldrin		0.03	N.D.	0.015	µg/l
	Alpha - HCH		0.01	N.D.	0.0075	µg/l
	Beta - HCH		0.04	N.D.	0.015	µg/l
	Butachlor		125	N.D.	0.015	µg/l
	Chlorpyrifos		30	N.D.	0.015	µg/l
	Delta - HCH		0.04	N.D.	0.015	µg/l
	2,4-D - dichlorophenoxyacetic Acid		30	N.D.	0.015	µg/l
	DDT (o,p & p,p- isomers of DDT, DDE and DDD)		1	N.D.	0.015	µg/l
	Endosulfan (α, β and Sulphate)		0.4	N.D.	0.015	µg/l
	Ethion		3	N.D.	0.015	µg/l
	Gamma HCH (Lindane)		2	N.D.	0.015	µg/l
	Isoproturon		9	N.D.	0.015	µg/l
	Malathion		190	N.D.	0.015	µg/l
	Methyl Parathion		0.3	N.D.	0.015	µg/l
	Monocrotophos		1	N.D.	0.015	µg/l
	Phorate		2	N.D.	0.015	µg/l
42.	<u>Trihalomethanes</u>	GCLPL/QS/CRA/5.4/19 (GCMS purge & trape)				
	A) Bromoform		0.1	N.D.	0.001	mg/l
	B) Dibromochloromethane		0.1	N.D.	0.001	mg/l
	C) Bromodichloromethane		0.06	N.D.	0.001	mg/l
	D) Chloroform		0.2	N.D.	0.001	mg/l

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Microbiological Parameters :						
43.	E. coli/MPN Index/100 ml	IS: 1622-1981	Absent	Absent [<2]	---	---
44.	Coliform bacteria/ MPN Index/100 ml	IS: 1622-1981	Absent	Absent [<2]	---	---
45.	Fecal coliform bacteria/ MPN Index/100 ml	IS: 1622-1981	Absent	Absent [<2]	---	---

Remarks : Sample conforms to IS-10500-2012 With Amendment No. 1 June 2015 for Drinking Water Specification with respect to the tests carried out.

- Note :**
1. Our analytical findings reflect the quality of the sample at the time of testing. No responsibility can be accepted for the possible consequences of further development of micro-organisms which may depend upon storage, Handling and Weather conditions which may influence the results at a later date/time.
 2. N.D. : Not Detected.
 3. * To be applicable only when water is chlorinated. Tested at consumer end.
When protection against viral infection is required, it should be minimum 0.5 mg/l.
 4. ** May be extended to 400 mg/l provided that Magnesium does not exceed 30 mg/l.

For Geo-Chem Laboratories (P) Ltd.
Authorised Signatory

Ms. Sharmila Sonawane
Chemical Residual Analysis (Inorganic)

Vaishali Khale
Chemical Residual Analysis (Organic)

Shalika Gupta
Biological Analysis



AK

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