



# EKDANT ENVIRO SERVICES (P) LIMITED

NABL Accredited & MoEF Recognised Laboratory  
An ISO 9001 : 2015 and OHSAS 45001 : 2018 Certified Company

No. R7/1, AVK Tower, North Main Road, Anna Nagar West Extn. Chennai - 600 101.  
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## TEST REPORT

Sample Ref No. : EES/W/201/06	Report No. : 363/06
Issued To: <b>M/s.B.S.A.R. Crescent Institute of Science &amp; Technology Vandalur, Chennai-600 048.</b>	Report Date : 24.06.2022 Page: 1 of 2
Sample Description : Water	Received On : 18.06.2022
Sample Drawn By/ Date : EES / 18.06.2022	Commenced On : 18.06.2022
Customer's Reference : Letter Dated on 18.06.2022	Completed On : 24.06.2022
Sample Mark : WTP RO Water	
Sample Location : Men's Hostel	

Sl. No	PARAMETERS	UNITS	RESULTS	As Per IS 10500:2012		PROTOCOL: APHA 23 <sup>rd</sup> Edition 2017
				Requirement (Acceptable limit)	Permissible limit in the absence of alternate source	
<b>Physical Properties</b>						
1	Appearance: When Analyzed After Filtration	-	Clear Clear	-	-	-
2	pH value at 25°C	-	6.51	6.5 – 8.5	6.5 – 8.5	4500 H <sup>+</sup> B
3	Color	Hazen	1.0	5	15	2120 B
4	Odor	-	Agreeable	Agreeable	Agreeable	IS 3025 P.5 1983
5	Turbidity	NTU	BLQ (LOQ=0.1)	1	5	2130 B
6	Electrical conductivity at 25°C	Micromhos/cm	68.0	-	-	2510 B
<b>Chemical Properties</b>						
7	Total Suspended Solids	mg/l	BLQ (LOQ=1.0)	-	-	IS:3025: P.17:1984
8	Total Dissolved Solids	mg/l	38.0	500	2000	IS 3025:P.16:1984

---End of Page 1---

Authorized Signatory

- NOTE:
1. Test results shown in this test report relate only to the items tested.
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  3. Unless informed by the customer the test items will not be retained for more than 10 days from the date of issue of test report (exceptional for Microbiology and wastewater for which retaining time 7 days.)



**TEST REPORT – ADDITIONAL SHEET**

Sample Ref No. : EESW/201/06

Report No. : 363/06  
Report Date : 24.06.2022  
Page: 2 of 2

Sl. No	PARAMETERS	UNITS	RESULTS	As Per IS 10500:2012		PROTOCOL: APHA 23 <sup>rd</sup> Edition 2017
				Requirement (Acceptable limit)	Permissible limit in the absence of alternate source	
9	Total Hardness as CaCO <sub>3</sub>	mg/l	3.0	200	600	2340 C
10	Calcium Hardness as CaCO <sub>3</sub>	mg/l	1.0	-	-	3500 - Ca B
11	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	2.0	-	-	3500 – Mg B
12	Calcium as Ca	mg/l	0.40	75	200	3500 - Ca B
13	Magnesium as Mg	mg/l	0.48	30	100	3500 – Mg B
14	Phenolphthalein Alkalinity as CaCO <sub>3</sub>	mg/l	Nil	-	-	2320 B
15	Total Alkalinity as CaCO <sub>3</sub>	mg/l	2.0	200	600	2320 B
16	Chlorides as Cl	mg/l	15.0	250	1000	4500 Cl B
17	Sulfates as SO <sub>4</sub>	mg/l	2.0	200	400	4500 SO <sub>4</sub> <sup>2-</sup> E
18	Total Iron as Fe	mg/l	BLQ (LOQ=0.01)	0.3	0.3	3500 Fe- B
19	Silica (Reactive) as SiO <sub>2</sub>	mg/l	1.80	-	-	IS 3025: P.35:1988
20	Carbonate Hardness as CaCO <sub>3</sub>	mg/l	2.0	-	-	2340 A
21	Non-Carbonate Hardness as CaCO <sub>3</sub>	mg/l	1.0	-	-	2340 A
22	Free Residual Chlorine	mg/l	BLQ (LOQ=0.1)	0.2	**1	4500 Cl B

BLQ= Below Limit of Quantification; LOQ= Limit of Quantification

To be applicable only when water is chlorinated.

**Report Opinion: The above submitted water sample complies with acceptable limits of drinking water specification as per IS 10500:2012 with respect to the above tests.**

Ref. Decision Rule: EES/QSP/012

---End of Report---

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TEST REPORT						
Sample Ref No. : EES/W/207/06				Report No. : 369/06		
Issued To: <b>M/s.B.S.A.R. Crescent Institute of Science &amp; Technology</b> Vandalur, Chennai-600 048.				Report Date : 24.06.2022 Page: 1 of 2		
Sample Description : Water				Received On : 18.06.2022		
Sample Drawn By/ Date : EES / 18.06.2022				Commenced On : 18.06.2022		
Customer's Reference : Letter Dated on 18.06.2022				Completed On : 24.06.2022		
Sample Mark : Well Water						
Sample Location : Men's Hostel						
Sl. No	PARAMETERS	UNITS	RESULTS	As Per IS 10500:2012		PROTOCOL: APHA 23 <sup>rd</sup> Edition 2017
				Requirement (Acceptable limit)	Permissible limit in the absence of alternate source	
<b>Physical Properties</b>						
1	Appearance: When Analyzed After Filtration	-	Slightly Turbid Clear	-	-	-
2	pH value at 25°C	-	6.68	6.5 – 8.5	6.5 – 8.5	4500 H <sup>+</sup> B
3	Color	Hazen	5.0	5	15	2120 B
4	Odor	-	Agreeable	Agreeable	Agreeable	IS 3025 P.5 1983
5	Turbidity	NTU	0.40	1	5	2130 B
6	Electrical conductivity at 25°C	Micromhos/cm	1693	-	-	2510 B
<b>Chemical Properties</b>						
7	Total Suspended Solids	mg/l	2.0	-	-	IS:3025: P.17:1984
8	Total Dissolved Solids	mg/l	1016	500	2000	IS 3025:P.16:1984

---End of Page 1---



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### TEST REPORT - ADDITIONAL SHEET

Sample Ref No. : EES/W/207/06

Report No. : 369/06  
Report Date : 24.06.2022  
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Sl. No	PARAMETERS	UNITS	RESULTS	As Per IS 10500:2012		PROTOCOL: APHA 23 <sup>rd</sup> Edition 2017
				Requirement (Acceptable limit)	Permissible limit in the absence of alternate source	
9	Total Hardness as CaCO <sub>3</sub>	mg/l	502	200	600	2340 C
10	Calcium Hardness as CaCO <sub>3</sub>	mg/l	378	-	-	3500 - Ca B
11	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	124	-	-	3500 - Mg B
12	Calcium as Ca	mg/l	152	75	200	3500 - Ca B
13	Magnesium as Mg	mg/l	30.0	30	100	3500 - Mg B
14	Phenolphthalein Alkalinity as CaCO <sub>3</sub>	mg/l	Nil	-	-	2320 B
15	Total Alkalinity as CaCO <sub>3</sub>	mg/l	130	200	600	2320 B
16	Chlorides as Cl	mg/l	222	250	1000	4500 Cl <sup>-</sup> B
17	Sulfates as SO <sub>4</sub>	mg/l	280	200	400	4500 SO <sub>4</sub> <sup>2-</sup> E
18	Total Iron as Fe	mg/l	0.68	0.3	0.3	3500 Fe- B
19	Silica (Reactive) as SiO <sub>2</sub>	mg/l	40.0	-	-	IS 3025: P.35:1988
20	Carbonate Hardness as CaCO <sub>3</sub>	mg/l	130	-	-	2340 A
21	Non-Carbonate Hardness as CaCO <sub>3</sub>	mg/l	372	-	-	2340 A
22	Free Residual Chlorine	mg/l	BLQ (LOQ=0.1)	0.2	**1	4500 Cl B

BLQ= Below Limit of Quantification; LOQ= Limit of Quantification

\*\*1 to be applicable only when water is chlorinated.

**Report Opinion: The above submitted water sample does not comply with Permissible limits of drinking water specification as per IS 10500:2012 with respect to Iron.**

Ref. Decision Rule: EES/QSP/012

---End of Report---



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