

6.2.1 c - Measure the total volume of water used in the university that is taken from mains supply, desalinated, or extracted from rivers, lakes, or aquifers (Water Quality Report)

The water quality reports for the well water, raw water and RO water is given below

QUALITY REPORT OF WELL WATER



EKDANT ENVIRO SERVICES (P) LIMITED

NABL Accredited & MoEF Recognised Laboratory
 An ISO 9001 : 2008 and OHSAS 18001 : 2007 Certified Company
 No.R-7/1, AVK Tower, North Main Road, Anna Nagar West Extn., Chennai - 600 101. India
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 E-mail : ekdantlab@gmail.com / info@ekdantlab.co.in
 Web : www.ekdantlab.co.in

TEST REPORT						
Sample Ref No. : EES/W/140/08			Report No. : 450/08			
Issued To: M/s. B.S. Abdur Rahman Crescent University, Seethakathi Estate, G.S.T Main Road, Vandalur, Chennai-600 048.			Report Date : 28.08.19 Page: 1 of 2			
Sample Description : Water			Received On : 23.08.19			
Sample Drawn By/ Date : EES / 23.08.19			Commenced On : 23.08.19			
Customer's Reference : Letter Dated on 23.08.19			Completed On : 28.08.19			
Sample Mark : Well Water						
Sampling Procedure : EES/QM/MSP/02						
Sl. No	PARAMETERS	UNITS	RESULTS	As Per IS 10500:2012		PROTOCOL: APHA 23 rd Edition 2017
				Requirement (Acceptable limit)	Permissible limit in the absence of alternate source	
Physical Properties						
1	Appearance When Analyzed After Filtration	-	Clear	-	-	-
2	pH value at 25°C	-	6.53	6.5 - 8.5	6.5 - 8.5	4500 H° B
3	Color	Hazen	2.0	5	15	2120 B
4	Odor	-	Agreeable	Agreeable	Agreeable	IS 3025 P 5 1983 R.2012
5	Turbidity	NTU	0.2	1	5	2130 B
6	Electrical conductivity at 25°C	Micromhos/cm	2096	-	-	2510 B
Chemical Properties						
7	Total Suspended Solids	mg/l	BDL (DL=1.0)	-	-	IS:3025. P.17:1984.R.2012
8	Total Dissolved Solids	mg/l	1290	500	2000	IS 3025 P.16:1984.R.2012

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TEST REPORT – ADDITIONAL SHEET

Sample Ref No. : EESW/140/08				Report No. : 450/08		Report Date : 28.08.19	Page: 2 of 2
Sl. No	PARAMETERS	UNITS	RESULTS	As Per IS 10500:2012		PROTOCOL: APHA 23 rd Edition 2017	
				Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		
9	Total Hardness as CaCO ₃	mg/l	776	200	600	2340 C	
10	Calcium Hardness as CaCO ₃	mg/l	545	-	-	3500 - Ca B	
11	Magnesium Hardness as CaCO ₃	mg/l	231	-	-	3500 - Mg D	
12	Calcium as Ca	mg/l	216	75	200	3500 - Ca B	
13	Magnesium as Mg	mg/l	55.0	30	100	2340 C	
14	Phenolphthalein Alkalinity as CaCO ₃	mg/l	Nil	-	-	2320 B	
15	Total Alkalinity as CaCO ₃	mg/l	168	200	600	2320 B	
16	Chlorides as Cl	mg/l	386	250	1000	4500 Cl B	
17	Sulfates as SO ₄	mg/l	255	200	400	4500 SO ₄ ²⁻ E	
18	Total Iron as Fe	mg/l	0.08	0.3	0.3	3500 Fe- B	
19	Silica (Reactive) as SiO ₂	mg/l	39.0	-	-	4500 SiO ₂ C	
20	Carbonate Hardness as CaCO ₃	mg/l	168	-	-	2340 A	
21	Non-Carbonate Hardness as CaCO ₃	mg/l	608	-	-	2340 A	
22	Free Residual Chlorine	mg/l	BDL (DL=0.1)	0.2	**1	4500 Cl B	

BDL= Below Detectable Limit, DL= Detection Limit.
 ** To be applicable only when water is chlorinated

—End of Report—



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QUALITY REPORT OF RAW WATER



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 Web : www.ekdantlab.co.in

TEST REPORT						
Sample Ref No. : EES/W/141/08			Report No. : 451/08			
Issued To: M/s. B.S. Abdur Rahman Crescent University, Seethakathi Estate, G.S.T Main Road, Vandalur, Chennai-600 048.			Report Date : 28.08.19 Page: 1 of 2			
Sample Description : Water			Received On : 23.08.19			
Sample Drawn By/ Date : EES / 23.08.19			Commenced On : 23.08.19			
Customer's Reference : Letter Dated on 23.08.19			Completed On : 28.08.19			
Sample Mark : Raw Water						
Sampling Procedure : EES/QM/MSP/02						
Sl. No	PARAMETERS	UNITS	RESULTS	As Per IS 10500:2012		PROTOCOL: APHA 23 rd Edition 2017
				Requirement (Acceptable limit)	Permissible limit in the absence of alternate source	
Physical Properties						
1	Appearance When Analyzed After Filtration	-	Clear Clear	-	-	-
2	pH value at 25°C	-	7.43	6.5 – 8.5	6.5 – 8.5	4500 H° B
3	Color	Hazen	5.0	5	15	2120 B
4	Odor	-	Agreeable	Agreeable	Agreeable	IS 3025 P.5 1983 R.2012
5	Turbidity	NTU	0.4	1	5	2130 B
6	Electrical conductivity at 25°C	Micromhos/cm	2716	-	-	2510 B
Chemical Properties						
7	Total Suspended Solids	mg/l	BDL (DL=1.0)	-	-	IS 3025: P.17:1984 R.2012
8	Total Dissolved Solids	mg/l	1780	500	2000	IS 3025:P.16:1984 R.2012

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TEST REPORT – ADDITIONAL SHEET

TEST REPORT – ADDITIONAL SHEET						
Sample Ref No. : EESW/141/08				Report No. : 451/08 Report Date : 28.08.19 Page: 2 of 2		
Sl. No	PARAMETERS	UNITS	RESULTS	As Per IS 10500:2012		PROTOCOL: APHA 23 rd Edition 2017
				Requirement (Acceptable limit)	Permissible limit in the absence of alternate source	
9	Total Hardness as CaCO ₃	mg/l	1101	200	600	2340 C
10	Calcium Hardness as CaCO ₃	mg/l	394	-	-	3500 - Ca B
11	Magnesium Hardness as CaCO ₃	mg/l	707	-	-	3500 - Mg B
12	Calcium as Ca	mg/l	158	75	200	3500 - Ca B
13	Magnesium as Mg	mg/l	170	30	100	2340 C
14	Phenolphthalein Alkalinity as CaCO ₃	mg/l	Nil	-	-	2320 B
15	Total Alkalinity as CaCO ₃	mg/l	329	200	600	2320 B
16	Chlorides as Cl	mg/l	444	250	1000	4500 Cl B
17	Sulfates as SO ₄	mg/l	510	200	400	4500 SO ₄ E
18	Total Iron as Fe	mg/l	0.16	0.3	0.3	3500 Fe- B
19	Silica (Reactive) as SiO ₂	mg/l	41.0	-	-	4500 SiO ₂ C
20	Carbonate Hardness as CaCO ₃	mg/l	329	-	-	2340 A
21	Non-Carbonate Hardness as CaCO ₃	mg/l	772	-	-	2340 A
22	Free Residual Chlorine	mg/l	BDL (DL=0.1)	0.2	**1	4500 Cl B

BDL= Below Detectable Limit, DL= Detection Limit.
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QUALITY REPORT OF RO WATER



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 E-mail : ekdantlab@gmail.com / info@ekdantlab.co.in
 Web : www.ekdantlab.co.in

TEST REPORT						
Sample Ref No. : EES/W/142/08			Report No. : 452/08			
Issued To: M/s. B.S. Abdur Rahman Crescent University, Seethakathi Estate, G.S.T Main Road, Vandalur, Chennai-600 048.			Report Date : 28.08.19 Page: 1 of 2			
Sample Description : Water Sample Drawn By/ Date : EES / 23.08.19 Customer's Reference : Letter Dated on 23.08.19 Sample Mark : RO Water Sampling Procedure : EES/QM/MSP/02			Received On : 23.08.19 Commenced On : 23.08.19 Completed On : 28.08.19			
Sl. No	PARAMETERS	UNITS	RESULTS	As Per IS 10500:2012		PROTOCOL: APHA 23 rd Edition 2017
				Requirement (Acceptable limit)	Permissible limit in the absence of alternate source	
Physical Properties						
1	Appearance When Analyzed After Filtration	-	Clear	-	-	-
2	pH value at 25°C	-	6.52	6.5 - 8.5	6.5 - 8.5	4500 H° B
3	Color	Hazen	1.0	5	15	2120 B
4	Odor	-	Agreeable	Agreeable	Agreeable	IS 3025 P.5 1983 R.2012
5	Turbidity	NTU	BDL (DL=0.1)	1	5	2130 B
6	Electrical conductivity at 25°C	Micromhos/cm	65.0	-	-	2510 B
Chemical Properties						
7	Total Suspended Solids	mg/l	BDL (DL=1.0)	-	-	IS 3025: P.17:1984:R.2012
8	Total Dissolved Solids	mg/l	39.0	500	2000	IS 3025:P.16:1984:R.2012

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TEST REPORT – ADDITIONAL SHEET

Sample Ref No : EES/W/142/08			Report No. : 452/08 Report Date : 28.08.19 Page : 2 of 2			
Sl. No	PARAMETERS	UNITS	RESULTS	As Per IS 10500:2012		PROTOCOL: APHA 23 rd Edition 2017
				Requirement (Acceptable limit)	Permissible limit in the absence of alternate source	
9	Total Hardness as CaCO ₃	mg/l	4.0	200	600	2340 C
10	Calcium Hardness as CaCO ₃	mg/l	2.0	-	-	3500 - Ca B
11	Magnesium Hardness as CaCO ₃	mg/l	2.0	-	-	3500 - Mg B
12	Calcium as Ca	mg/l	0.80	75	200	3500 - Ca B
13	Magnesium as Mg	mg/l	0.48	30	100	2340 C
14	Phenolphthalein Alkalinity as CaCO ₃	mg/l	Nil	-	-	2320 B
15	Total Alkalinity as CaCO ₃	mg/l	12.0	200	600	2320 B
16	Chlorides as Cl	mg/l	17.0	250	1000	4500 Cl B
17	Sulfates as SO ₄	mg/l	2.0	200	400	4500 SO ₄ ²⁻ E
18	Total Iron as Fe	mg/l	BDL (DL=0.05)	0.3	0.3	3500 Fe- B
19	Silica (Reactive) as SiO ₂	mg/l	3.0	-	-	4500 SiO ₂ C
20	Carbonate Hardness as CaCO ₃	mg/l	4.0	-	-	2340 A
21	Non-Carbonate Hardness as CaCO ₃	mg/l	Nil	-	-	2340 A
22	Free Residual Chlorine	mg/l	BDL (DL=0.1)	0.2	**1	4500 Cl B

BDL= Below Detectable Limit, DL= Detection Limit.
 ** 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.

—End of Report—

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B.S. Abdur Rahman

Crescent
Institute of Science & Technology

Deemed to be University u/s 3 of the UGC Act, 1956



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TEST REPORT					
Sample Ref No : EES/W/142/08			Report No : 452/08		
Issued To: M/s. B.S. Abdur Rahman Crescent University, Seethakathi Estate, G.S.T Main Road, Vandalur, Chennai-600 048.			Report Date : 28.08.19 Page: 1 of 1		
Sample Description : Water			Received On : 23.08.19		
Sample Drawn By/ Date : EES/ 23.08.19			Commenced On : 23.08.19		
Customer's Reference : Letter Dated on 23.08.19			Completed On : 28.08.19		
Sample Mark : RO Water					
Sampling Procedure : EES/SOP/MB/005					
Sl. No	PARAMETERS	UNITS	RESULTS	Requirement as per IS 10500: 2012 Second revision (Acceptable Limit)	PROTOCOL
MICROBIOLOGICAL EXAMINATION					
1	Total Coliforms	MPN / 100ml	Absent	Shall not be detectable in any 100 ml	IS:1622-1981 Amd.4 RA 2012
2	E.coli	MPN / 100ml	Absent	Shall not be detectable in any 100 ml	IS:1622-1981 Amd.4 RA 2012
MPN- Most Probable Number					
Report Opinion: The above submitted water sample meets the requirement of drinking water specification as per IS 10500:2012 with respect to the parameters tested.					

—End of Report—



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