



REPORT ON BACTERIOLOGICAL EXAMINATION OF WATER

Name & Address

*ST. XAVIERS SCHOOL
NEAR WOCKHARDT HOSPITAL,
KALAWAD ROAD,RAJKOT-360001

Sender's Ref. No. : NILL.21/07/2023
Ref. Date : 21-Jul-23
Date & Time of Commencing Examination : 21-Jul-23
Sample collected by : Sender

RBW No.	419
Date of Collection	21/07/2023
Date of Arrival at Lab.	21/07/2023
Source of Water Sample	*MUNICIPAL TAP WATER+ RO FILTER /IN SENDER PRIMISIESS
Village	RAJKOT
Habitation	RAJKOT
Taluka	RAJKOT
District	RAJKOT
APHA, AWWA, 9221-D Presence - Absence Coliform Test, @ 37°	---
APHA, AWWA, 9221-F Presence - Absence E-Coli Test, @ 37° C	---
MPN of coliform per 100 ml of sample at 37° C	< 2
MPN of Faecal coliform per 100 ml of sample at 44° C	< 2
Free Chlorine (PPM)	Nil
OPINION FOR POTABILITY :	Fit

Important Note:-

" Unsafe * " :- Proper Disinfection may render it Safe.

Presence of Coliform in water sample indicates the need of proper Disinfection.

Water Sample contains very high Free Chlorine, such a high Chlorine is not advisable for human consumption. Free Chlorine shouldn't exceed "2 ppm" at the consumer end. Also the analysis is not feasible in presence of such a high Free Chlorine content.

** Presence of Free Chlorine in the water indicates that water is disinfected and hence bacteriologically water is Fit for Potable use.

1) '>=' Indicates greater than or equal to, 2) '<' Indicates less than

NOTE : Table - 6 Bacteriological Quality of Drinking Water (BIS:10500:2012) : Second Revision.

@ All Water Intended for Drinking -

(a) E.coli or Thermotolerant coliform bacteria shall not be detectable in any 100ml sample.

@ Treated Water Entering the Distribution system & Treated Water in the Distribution system -

(a) E.coli or Thermotolerant coliform bacteria shall not be detectable in any 100ml sample.

(b) Total coliform bacteria shall not be detectable in any 100ml sample.




@ 0.2ppm Free Residual Chlorine at consumer end is recommended.

1) Test Report is issued for assessing Bacteriological Fitness as per the BIS 10500:2012 for the given Drinking Water Sample only.

2) This Report should not be taken as a basis to getting license from any Government authority.

3) After Collection of Bact. Sample, it must be preserved at 4°C and submitted to laboratory within 24hrs.


Microbiologist

 <p>P. H. E. Laboratory G.W.S. & S.B. 1ST Floor, Chimanbhai Patel Vikas Bhavan, Jamnagar Road, RAJKOT - 360001 Phone : (0281) 2441521</p>		<p>જાહેર આરોગ્ય ઇજનેરી પ્રયોગશાળા ગુ. પા. પુ. અને ગ.વ્ય.બોર્ડ, પહેલો માળ, ચીમનભાઈ પટેલ વિકાસ ભવન, જામનગર રોડ, રાજકોટ- ૩૬૦૦૦૧ ફોન : (૦૨૮૧) ૨૪૪૧૫૨૧</p>	

Test Report

Name & Address of Customer:-

*ST. XAVIERS SCHOOL

NEAR WOCKHARDT HOSPITAL,
KALAWAD ROAD,
RAJKOT
RAJKOT-360001

Customer Reference No.:

NILL.21/07/2023

Sample Submitted by :

Sender

Date of Sample Receipt :

21-Jul-23

Analysis Starting Date :

24-Jul-23

Analysis Completion Date :

25-Jul-23

ULR No.:

TC411723000000926F

Discipline : Chemical Testing

Group : Water

Test Report No.:	503/07/2023	Date of Issue :	25/07/2023	
Sample ID :	RCW-503/07/2023	Mode of Sample:	-	
Main Source :	*Surface Water	Source :	*MUNICIPAL TAP WATER+ RO FILTER	
Location :	*IN SENDER PRIMISESS			
Village :	RAJKOT	Habitation :	RAJKOT	
Taluka :	RAJKOT	District :	RAJKOT	
Latitude :	-	Longitude :	-	
Kindly find herewith the Analytical Results.		Sample Type:	Drinking Water	
Sr. No.	Parameter	Unit	Reference Method :	Analytical Value
1	Colour	CU	APHA (24 th Ed.2017), Method: 2120 B	<5
2	Turbidity	NTU	APHA (24 th Ed.2017), Method: 2130 B	0.87
3	pH at 25 ^o C	-	APHA (24 th Ed.2017) Method: 4500 H ⁺ B	7.45
4	Conductivity at 25 ^o C	µS/cm	APHA (24 th Ed.2017) Method: 2510 B	321
5	Total Dissolved Solids	mg/L	APHA (24 th Ed.2017) Method: 2540 C	198
6	Total Hardness (as CaCO ₃)	mg/L	APHA (24 th Ed.2017) Method: 2340 C	96
7	Calcium (as Ca ²⁺)	mg/L	APHA (24 th Ed.2017) Method: 3500 Ca ²⁺ B	19
8	Magnesium (as Mg ²⁺)	mg/L	APHA (24 th Ed.2017) Method: 3500-Mg ²⁺ B	12
9	Chloride (as Cl ⁻)	mg/L	APHA (24 th Ed.2017) Method: 4500-Cl ⁻ B	44
10	Sulphate (as SO ₄ ²⁻)	mg/L	APHA (24 th Ed.2017) Method: 4500-SO ₄ ²⁻ E	13
11	Nitrate (as NO ₃ ⁻)	mg/L	APHA (24 th Ed.2017) Method: 4500-NO ₃ ⁻ B	2.78
12	Fluoride (as F ⁻)	mg/L	APHA (24 th Ed.2017) Method: 4500-F ⁻ C	0.12
13	Total Alkalinity (as CaCO ₃)	mg/L	APHA (24 th Ed.2017) Method: 2320 B	72

This Report is issued under the following terms & Condition :

1. This report is referring only to the tested sample and for applicable parameter.
2. The sample will be destroyed after retention time unless otherwise specified specially.
3. The Report shall not be reproduced except in full, Without approval of the laboratory.
4. Please refer back page for IS 10500:2012 (2nd Revision) limits.
5. *This Information (Name and address of the customer, details of the sample) are provided by the customer.

Analysed By :



Chemist / Dy. Quality Manager

Checked & Approved By:



(MEHUL B. CHAVDA)
Authorised Signatory

----- End of the Test Report -----

O.W.No. PHEL/RJT/C. Report/ 907 /of 2023, Dt. 28/7 /2023.

1st Floor, Chimanbhai Patel Vikas Bhavan, RUDA Building, Jamnagar Road, Rajkot-360001

IS-10500:2012 (2nd Revision)

Sr. No.	Parameter	Unit	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
			Max.	Max.
1	Colour	CU	5	15
2	Turbidity	NTU	1	5
3	pH at 25 ⁰ C	-	6.5 to 8.5	No relaxation
4	Conductivity at 25 ⁰ C	μS/cm	-	-
5	Total Dissolved Solids	mg/l	500	2000
6	Total Hardness (as CaCO ₃)	mg/L	200	600
7	Calcium (as Ca)	mg/L	75	200
8	Magnesium (as Mg)	mg/L	30	100
9	Chloride (as Cl)	mg/L	250	1000
10	Sulphate (as SO ₄)	mg/L	200	400
11	Nitrate (as NO ₃)	mg/L	45	No relaxation
12	Fluoride (as F)	mg/L	1	1.5
13	Total Alkalinity (as CaCO ₃)	mg/L	200	600