PUBLIC HEALTH ENGINEERING LABORATORY
GUJARAT WATER SUPPLY SEWERAGE BOARD RAJKOT
1St Floor,Chimanbhai Patel Vikas Bhavan, Jamnagar Road, Rajkot-360001
Phone No. (0281) 2441521
Email:- phel.rjt@gmail.com

REPORT ON BACTERIOLOGICAL EXAMINATION OF WATER

Name & Address
***PM SHRI KENDRIYA VIDYALAYA**
KALAWAD ROAD,
RAJKOT-360005

Sender's Ref. No. : 12029/Misc/KVR/2024/187
Ref. Date : 13-09-24
Date & Time of Commencing Examination : 13-09-24
Sample collected by : Sender

RBW No.	**283**
Date of Collection	13/09/2024
Date of Arrival at Lab.	13/09/2024
Source of Water Sample	*RO TREATED MUNI. TAP WATER /IN SENDER PREMISES
Village	RAJKOT
Habitation	RAJKOT
Taluka	RAJKOT
District	RAJKOT
APHA, AWWA, 9221-D Presence - Absence Coliform Test, @ 37° C	---
APHA, AWWA, 9221-F Presence - Absence E-Coli Test, @ 37° C	---
MPN of coliform per 100 ml of sample at 37º C	< 2
MPN of Faecal coliform per 100 ml of sample at 44º 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 consumar 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 Rivision.
@ All Water Intended for Drinking -
(a) E.coli or Thermotolerant coliform bacteria shall not be detactable 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 detactable in any 100ml sample.
(b) Total coliform bacteria shall not be detactable in any 100ml sample.
@ 0.2ppm Free Residual Chlorine at consumer end is recommanded.

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 4ºC and submitted to laboratory within 24hrs.

Microbiologist

Outward No.: PHEL/RJT / 688 / of 2024, Date: 19 / 09 / 2024

P. H. E. Laboratory
G.W.S. & S.B.
1ST Floor, Chimanbhai Patel Vikas Bhavan, Jamnagar Road,
RAJKOT - 360001
Phone : (0281) 2441521

જાહેર આરોગ્ય ઇજનેરી પ્રયોગશાળા
ગુ. પા. પુ. અને ગ.વ્ય.બોર્ડ,
પહેલો માળ, ચીમનભાઇ પટેલ વિકાસ ભવન,
જામનગર રોડ, રાજકોટ- ૩૬૦૦૦૧
ફોન : (૦૨૮૧) ૨૪૪૧૫૨૧

E.mail : phel.rjt@gmail.com

TC- 4117

Test Report

Name & Address of Customer:-

***PM SHRI KENDRIYA VIDYALAYA**

KALAWAD ROAD,
RAJKOT-360005
-
-

Customer Reference No.: 12029/Misc/KVR/2024/187

Sample Submitted by : Sender
Date of Sample Receipt : 13/09/2024
Analysis Starting Date : 13/09/2024
Analysis Completion Date : 17/09/2024
ULR No.: TC411728000000000498F
Discipline : Chemical Testing **Group :** Water

Test Report No.:	286/09/2024	**Date of Issue :**	18/09/2024
Sample ID :	RCW-286/09/2024	**Mode of Sample:**	-
Main Source :	*Surface Water	**Source :**	*RO TREATED MUNI. TAP WATER
Location :	*IN SENDER PREMISES		
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 (24rd Ed.2017), Method: 2120 B	<5
2	Turbidity	NTU	APHA (24rd Ed.2017), Method: 2130 B	0.67
3	pH at 25^{0}C	-	APHA (24rd Ed.2017) Method: 4500 H^+ B	7.98
4	Conductivity at 25^{0}C	µS/cm	APHA (24rd Ed.2017) Method: 2510 B	449
5	Total Dissolved Solids	mg/L	APHA (24rd Ed.2017) Method: 2540 C	280
6	Total Hardness (as $CaCO_3$)	mg/L	APHA (24rd Ed.2017) Method: 2340 C	156
7	Calcium (as Ca^{+2})	mg/L	APHA (24rd Ed.2017) Method: 3500 Ca^{+2} B	32
8	Magnessium (as Mg^{+2})	mg/L	APHA (24rd Ed.2017) Method: 3500-Mg^{+2} B	18
9	Chloride (as Cl^-)	mg/L	APHA (24rd Ed.2017) Method: 4500-Cl B	48
10	Sulphate (as SO_4^{-2})	mg/L	APHA (24rd Ed.2017) Method: 4500-SO_4^{-2} E	25
11	Nitrate (as NO_3^-)	mg/L	APHA (24rd Ed.2017) Method: 4500-NO_3^- B	13.56
12	Fluoride (as F^-)	mg/L	APHA (24rd Ed.2017) Method: 4500-F C	0.18
13	Total Alkalinity (as $CaCO_3$)	mg/L	APHA (24rd Ed.2017) Method: 2320 B	56

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 expect 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/ 687 **/of 2024, Dt.** 19/09/2024.

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 25^0C	-	6.5 to 8.5	No relaxation
4	Conductivity at 25^0C	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	Magnessium (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