



DISTRICT LABORATORY, GWSSB

Bus Station Road, Khambhalia, PIN-361305.

District:- Devbhoomi-Dwarka

Email:-distlabkbl@gmail.com, Phone:02833-232372.



REPORT ON SHORT CHEMICAL EXAMINATION OF WATER

Name & Address
Tata Chemicals Ltd.
Analytical Lab.
Mithapur

Sender's Ref. No. : Nil
Ref. Date : 10-Jan-19
Sample Collected By : Sender

| Sr. No. | Lab. Reference : CW No. | *** | *** | 845 | 846 | 847 | 848 | 849 |
|--|---|------------------------------------|--|---------------------------------------|--------------------------------------|--|----------------------------------|---|
| * | Date of Collection | Value as per IS 10500 : 2012 | | 10-Jan-19 | 10-Jan-19 | 10-Jan-19 | 10-Jan-19 | 10-Jan-19 |
| * | Date of Arrival at Laboratory | (Second Revision) | | 11-Jan-19 | 11-Jan-19 | 11-Jan-19 | 11-Jan-19 | 11-Jan-19 |
| * | Source of Water Sample | Requirement [Acceptable Limit] MAX | * Permissible Limit in the absence of Alternate Source MAX | Tank water from Town civil, in coming | Tank water from Town civil, outgoing | Tap water from Old merchant colony, quarter No. 17 | Tap water from Home Guard Office | Tap water from 2nd Series, Quarter No. 66 |
| * | Village | *** | *** | Mithapur | Mithapur | Mithapur | Mithapur | Mithapur |
| * | Habitation | *** | *** | Mithapur | Mithapur | Mithapur | Mithapur | Mithapur |
| * | Taluka | *** | *** | Okhamandal | Okhamandal | Okhamandal | Okhamandal | Okhamandal |
| * | District | *** | *** | Devbhoomi-Dwarka | Devbhoomi-Dwarka | Devbhoomi-Dwarka | Devbhoomi-Dwarka | Devbhoomi-Dwarka |
| 1 | Colour - Hazen Units | 5 | 15 | Nil | Nil | Nil | Nil | Nil |
| 2 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| 3 | Turbidity - NTU | 1 | 5 | 0.55 | 0.52 | 0.30 | 1.26 | 0.57 |
| 4 | Dissolve Solids - mg/l | 500 | 2000 | 52 | 52 | 52 | 52 | 52 |
| 5 | Conductivity - μ s/cm | | | 75 | 73 | 74 | 74 | 74 |
| 5 | pH | 6.5 to 8.5 | No Relaxation | 7.40 | 7.32 | 7.25 | 7.30 | 7.35 |
| 6 | Total Hardness (as CaCO_3) mg/l | 200 | 600 | 24 | 20 | 20 | 28 | 28 |
| 7 | Calcium (as Ca^{+2}) mg/l | 75 | 200 | 6 | 6 | 6 | 8 | 6 |
| 8 | Magnesium (as Mg^{+2}) mg/l | 30 | 100 | 2 | 1 | 1 | 2 | 3 |
| 9 | Chloride (as Cl^-) mg/l | 250 | 1000 | 26 | 26 | 26 | 26 | 26 |
| 10 | Sulphate (as SO_4^{-2}) mg/l | 200 | 400 | 4 | 4 | 4 | 5 | 5 |
| 11 | Nitrates (as NO_3^-) mg/l | 45 | No Relaxation | 2.40 | 2.50 | 2.50 | 2.40 | 2.60 |
| 12 | Fluoride (as F^-) mg/l | 1.0 | 1.5 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 13 | Alkalinity (as CaCO_3) mg/l | 200 | 600 | 25 | 25 | 25 | 21 | 21 |
| Opinion for Potability is given as per Analysed test parameter/s only. | | | | FIT | FIT | FIT | FIT | FIT |

Abbreviation : U.O. = Unobjectionable, Note : Excessive Turbidity, if any may be removed before use.

"Note:

* It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under "permissible limit in the absence of alternate source" above which the sources will have to be rejected.

1. Test Report is issued for assessing Chemical 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. Chemical Sample must be submitted within 72 hours to laboratory."

Outward No.: CAR /...44.../of 2019, Date : 19 / 01 / 2019

PRINCIPAL
TATACHEM D.A.V. PUBLIC SCHOOL
MITHAPUR

Chairman
School Managing Committee
Tatachem DAV Public School
Mithapur

Junior Scientific Assistant



DISTRICT LABORATORY, GWSSB

Bus Station Road, Khambhalia, PIN-361305.

District:- Devbhoomi-Dwarka

Email:-distlabkbl@gmail.com, Phone:02833-232372.



REPORT ON SHORT CHEMICAL EXAMINATION OF WATER

Name & Address
Tata Chemicals Ltd.
Analytical Lab.
Mithapur

Sender's Ref. No. : Nil
Ref. Date : 10-Jan-19
Sample Collected By : Sender

| Sr. No. | Lab. Reference : CW No. | *** | *** | 850 | 851 | 852 | 853 | 854 |
|--|---|------------------------------------|--|---|----------------------------------|--------------------------------|-------------------------------------|---------------------------------|
| * | Date of Collection | Value as per IS 10500 : 2012 | | 10-Jan-19 | 10-Jan-19 | 10-Jan-19 | 10-Jan-19 | 10-Jan-19 |
| * | Date of Arrival at Laboratory | (Second Revision) | | 11-Jan-19 | 11-Jan-19 | 11-Jan-19 | 11-Jan-19 | 11-Jan-19 |
| * | Source of Water Sample | Requirement [Acceptable Limit] MAX | * Permissible Limit in the absence of Alternate Source MAX | Tap water from 1st Series, Quarter No. 93 | Tank water supply from 3D outlet | Tank water from Soften Out let | Tank water from sand filter out let | Tank water from Town water tank |
| * | Village | *** | *** | Mithapur | Mithapur | Mithapur | Mithapur | Mithapur |
| * | Habitation | *** | *** | Mithapur | Mithapur | Mithapur | Mithapur | Mithapur |
| * | Taluka | *** | *** | Okhamandal | Okhamandal | Okhamandal | Okhamandal | Okhamandal |
| * | District | *** | *** | Devbhoomi-Dwarka | Devbhoomi-Dwarka | Devbhoomi-Dwarka | Devbhoomi-Dwarka | Devbhoomi-Dwarka |
| 1 | Colour - Hazen Units | 5 | 15 | Nil | Nil | Nil | Nil | Nil |
| 2 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| 3 | Turbidity - NTU | 1 | 5 | 0.44 | 0.97 | 0.34 | 0.47 | 0.20 |
| 4 | Dissolve Solids - mg/l | 500 | 2000 | 52 | 52 | 14 | 20 | 50 |
| 5 | Conductivity - μ S/cm | | | 74 | 74 | 20 | 28 | 70 |
| 5 | pH | 6.5 to 8.5 | No Relaxation | 7.28 | 7.25 | 7.27 | 7.37 | 7.20 |
| 6 | Total Hardness (as CaCO_3) mg/l | 200 | 600 | 20 | 24 | 12 | 12 | 28 |
| 7 | Calcium (as Ca^{+2}) mg/l | 75 | 200 | 6 | 6 | 3 | 3 | 6 |
| 8 | Magnesium (as Mg^{+2}) mg/l | 30 | 100 | 1 | 2 | 1 | 1 | 3 |
| 9 | Chloride (as Cl^-) mg/l | 250 | 1000 | 22 | 26 | 17 | 17 | 26 |
| 10 | Sulphate (as SO_4^{-2}) mg/l | 200 | 400 | 4 | 4 | 2 | 2 | 5 |
| 11 | Nitrates (as NO_3^-) mg/l | 45 | No Relaxation | 2.40 | 0.70 | 0.30 | 0.40 | 2.60 |
| 12 | Fluoride (as F^-) mg/l | 1.0 | 1.5 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 13 | Alkalinity (as CaCO_3) mg/l | 200 | 600 | 21 | 18 | 21 | 25 | 18 |
| Opinion for Potability is given as per Analysed test parameter/s only. | | | | FIT | FIT | FIT | FIT | FIT |

Abbreviation : U.O. = Unobjectionable, Note : Excessive Turbidity, if any may be removed before use.

"Note:

* It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under "permissible limit in the absence of alternate source" above which the sources will have to be rejected.

1. Test Report is issued for assessing Chemical 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. Chemical Sample must be submitted within 72 hours to laboratory."

Outward No.: CAR / 45 / of 2019, Date : 19 / 01 / 2019

Junior Scientific Assistant

[Signature]
PRINCIPAL
TATACHEM D.A.V. PUBLIC SCHOOL
MITHAPUR

[Signature]
Chairman
School Managing Committee
Tatachem DAV Public School
Mithapur



DISTRICT LABORATORY, GWSSB

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REPORT ON SHORT CHEMICAL EXAMINATION OF WATER

Name & Address
Tata Chemicals Ltd.
Analytical Lab.
Mithapur

Sender's Ref. No. : Nil
Ref. Date : 10-Jan-19
Sample Collected By : Sender

| Sr. No. | Lab. Reference : CW No. | *** | *** | 855 | 856 |
|--|---|------------------------------------|--|---------------------------|-------------------------------|
| * | Date of Collection | Value as per IS 10500 : 2012 | | 10-Jan-19 | 10-Jan-19 |
| * | Date of Arrival at Laboratory | (Second Revision) | | 11-Jan-19 | 11-Jan-19 |
| * | Source of Water Sample | Requirement [Acceptable Limit] MAX | * Permissible Limit in the absence of Alternate Source MAX | Tank water from UV-Outlet | Tank water from Pump delivery |
| * | Village | *** | *** | Mithapur | Mithapur |
| * | Habitation | *** | *** | Mithapur | Mithapur |
| * | Taluka | *** | *** | Okhamandal | Okhamandal |
| * | District | *** | *** | Devbhoomi-Dwarka | Devbhoomi-Dwarka |
| 1 | Colour - Hazen Units | 5 | 15 | Nil | Nil |
| 2 | Odour | Agreeable | Agreeable | Agreeable | Agreeable |
| 3 | Turbidity - NTU | 1 | 5 | 0.36 | 0.16 |
| 4 | Dissolve Solids - mg/l | 500 | 2000 | 50 | 50 |
| 5 | Conductivity - μ s/cm | | | 71 | 70 |
| 6 | pH | 6.5 to 8.5 | No Relaxation | 7.24 | 7.22 |
| 7 | Total Hardness (as CaCO_3) mg/l | 200 | 600 | 24 | 20 |
| 8 | Calcium (as Ca^{+2}) mg/l | 75 | 200 | 6 | 5 |
| 9 | Magnesium (as Mg^{+2}) mg/l | 30 | 100 | 2 | 2 |
| 10 | Chloride (as Cl^-) mg/l | 250 | 1000 | 21 | 21 |
| 11 | Sulphate (as SO_4^{-2}) mg/l | 200 | 400 | 4 | 4 |
| 12 | Nitrates (as NO_3^-) mg/l | 45 | No Relaxation | 2.70 | 2.60 |
| 13 | Fluoride (as F^-) mg/l | 1.0 | 1.5 | 0.02 | 0.02 |
| 14 | Alkalinity (as CaCO_3) mg/l | 200 | 600 | 21 | 21 |
| Opinion for Potability is given as per Analysed test parameter/s only. | | | | FIT | FIT |

Note:

* It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under "permissible limit in the absence of alternate source" above which the sources will have to be rejected.

1. Test Report is issued for assessing Chemical 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. Chemical Sample must be submitted within 72 hours to laboratory from time of collecting sample.
4. Excessive Turbidity, if any may be removed before use.

Outward No.: CAR / 46 / of 2019, Date : 19 / 01 / 2019

Junior Scientific Assistant

PRINCIPAL
TATACHEM D.A.V. PUBLIC SCHOOL
MITHAPUR

Chairman
School Managing Committee
Tatachem DAV Public School
Mithapur



DISTRICT LABORATORY

Bus Station Road, Khambhalia,
District:- Devbhoomi-Dwarka
PIN-361305. Phone:02833-232372.



REPORT ON BACTERIOLOGICAL EXAMINATION OF WATER

Name & Address

Tata Chemicals Ltd.
Analytical Lab.
Mithapur

Sender's Ref. No.: Nil

Ref. Date: 10-Jan-19

Date & Time of Commencing Examination: 11-Jan-19

Sample collected by: Sender

| BW No. | 1516 | 1517 | 1518 | 1519 | 1520 |
|--|---------------------------------------|--------------------------------------|--|----------------------------------|---|
| Date of Collection | 10-Jan-19 | 10-Jan-19 | 10-Jan-19 | 10-Jan-19 | 10-Jan-19 |
| Date of Arrival at Lab. | 11-Jan-19 | 11-Jan-19 | 11-Jan-19 | 11-Jan-19 | 11-Jan-19 |
| Source of Water Sample | Tank water from Town civil, in coming | Tank water from Town civil, outgoing | Tap water from Old merchant colony, quarter No. 17 | Tap water from Home Guard Office | Tap water from 2nd Series, Quarter No. 66 |
| Village | Mithapur | Mithapur | Mithapur | Mithapur | Mithapur |
| Habitation | Mithapur | Mithapur | Mithapur | Mithapur | Mithapur |
| Taluka | Okhamandal | Okhamandal | Okhamandal | Okhamandal | Okhamandal |
| District | Devbhoomi-Dwarka | Devbhoomi-Dwarka | Devbhoomi-Dwarka | Devbhoomi-Dwarka | Devbhoomi-Dwarka |
| APHA, AWWA, 9221-D Presence - Absence Coliform Test, @ 37° C | Absent | Absent | Absent | Absent | Absent |
| APHA, AWWA, 9221-F Presence - Absence E-Coli Test, @ 37° C | Absent | Absent | Absent | Absent | Absent |
| MPN of coliform per 100 ml of sample at 37° C | < 2 | < 2 | < 2 | < 2 | < 2 |
| MPN of Faecal coliform per 100 ml of sample at 44° C | < 2 | < 2 | < 2 | < 2 | < 2 |
| Free Chlorine (PPM) | 0.10 | 0.20 | 0.50 | 0.20 | 0.20 |
| OPINION FOR POTABILITY : | FIT | FIT | FIT | FIT | FIT |

Important Note:-

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.

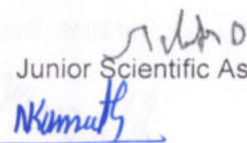
2) This Report should not be taken as a basis to getting license from any Government authority.

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

Outward No.: BAR / 54 / of 2019, Date: 19 / 01 / 2019

Junior Scientific Assistant


PRINCIPAL
TATACHEM D.A.V. PUBLIC SCHOOL
MITHAPUR


Chairman
School Managing Committee
Tatachem DAV Public School
Mithapur



DISTRICT LABORATORY

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REPORT ON BACTERIOLOGICAL EXAMINATION OF WATER

Name & Address

Tata Chemicals Ltd.
Analytical Lab.
Mithapur

Sender's Ref. No.: Nil

Ref. Date: 10-Jan-19

Date & Time of Commencing Examination: 11-Jan-19

Sample collected by: Sender

| BW No. | 1521 | 1522 | 1523 | 1524 | 1525 |
|--|---|----------------------------------|--------------------------------|-------------------------------------|---------------------------------|
| Date of Collection | 10-Jan-19 | 10-Jan-19 | 10-Jan-19 | 10-Jan-19 | 10-Jan-19 |
| Date of Arrival at Lab. | 11-Jan-19 | 11-Jan-19 | 11-Jan-19 | 11-Jan-19 | 11-Jan-19 |
| Source of Water Sample | Tap water from 1st Series, Quarter No. 93 | Tank water supply from 3D outlet | Tank water from Soften Out let | Tank water from sand filter out let | Tank water from Town water tank |
| Village | Mithapur | Mithapur | Mithapur | Mithapur | Mithapur |
| Habitation | Mithapur | Mithapur | Mithapur | Mithapur | Mithapur |
| Taluka | Okhamandal | Okhamandal | Okhamandal | Okhamandal | Okhamandal |
| District | Devbhoomi-Dwarka | Devbhoomi-Dwarka | Devbhoomi-Dwarka | Devbhoomi-Dwarka | Devbhoomi-Dwarka |
| APHA, AWWA, 9221-D Presence - Absence Coliform Test, @ 37° C | Absent | Absent | Absent | Absent | Absent |
| APHA, AWWA, 9221-F Presence - Absence E-Coli Test, @ 37° C | Absent | Absent | Absent | Absent | Absent |
| MPN of coliform per 100 ml of sample at 37° C | < 2 | < 2 | < 2 | < 2 | < 2 |
| MPN of Faecal coliform per 100 ml of sample at 44° C | < 2 | < 2 | < 2 | < 2 | < 2 |
| Free Chlorine (PPM) | 0.0 | 0.10 | 0.20 | 0.20 | 0.20 |
| OPINION FOR POTABILITY : | FIT | FIT | FIT | FIT | FIT |

Important Note:-

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.

Outward No.: BAR / 55 / of 2019, Date: 19 / 01 / 2019

Junior Scientific Assistant

PRINCIPAL
TATACHEM D.A.V. PUBLIC SCHOOL
MITHAPUR

Chairman
School Managing Committee
Tatachem DAV Public School
Mithapur



DISTRICT LABORATORY

Bus Station Road, Khambhalia,
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REPORT ON BACTERIOLOGICAL EXAMINATION OF WATER

Name & Address

Tata Chemicals Ltd.
Analytical Lab.
Mithapur

Sender's Ref. No.: Nil

Ref. Date: 10-Jan-19

Date & Time of Commencing Examination: 11-Jan-19

Sample collected by: Sender

| | | |
|--|----------------------------|-------------------------------|
| BW No. | 1526 | 1527 |
| Date of Collection | 10-Jan-19 | 10-Jan-19 |
| Date of Arrival at Lab. | 11-Jan-19 | 11-Jan-19 |
| Source of Water Sample | Tank water from UV- Outlet | Tank water from Pump delivery |
| Village | Mithapur | Mithapur |
| Habitation | Mithapur | Mithapur |
| Taluka | Okhamandal | Okhamandal |
| District | Devbhoomi-Dwarka | Devbhoomi-Dwarka |
| APHA, AWWA, 9221-D Presence - Absence Coliform Test, @ 37° C | Absent | Absent |
| APHA, AWWA, 9221-F Presence - Absence E-Coli Test, @ 37° C | Absent | Absent |
| MPN of coliform per 100 ml of sample at 37° C | < 2 | < 2 |
| MPN of Faecal coliform per 100 ml of sample at 44° C | < 2 | < 2 |
| Free Chlorine (PPM) | 0.20 | 0.20 |
| OPINION FOR POTABILITY : | FIT | FIT |

Important Note:-

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.

Outward No.: BAR / 56 / of 2019, Date: 19 / 01 / 2019

Junior Scientific Assistant

M. Hemant
PRINCIPAL

TATACHEM D.A.V. PUBLIC SCHOOL
MITHAPUR

Mamath

Chairman

School Managing Committee
Tatachem DAV Public School
Mithapur