



Memo No:- 4395

Date:- 24/11/2023

Subject : Physical / Chemical Examination Report of Water Sample

| | | |
|--|-----------------------|------------------------|
| Sample ID/Classification : KNL/05683/11/2023 / Private | Sample Details | Date & Time |
| Sender : PRINCIPAL PM SHRI GSSS Nilokheri (KARNAL)26-493 | Collected By | |
| Location : Nilokheri | Collection Date | 22/11/2023 at 16.22 |
| Sample Description : Drinking Water | Received at lab | 22/11/2023 at 16.43 |
| Latitude / Longitude : 76.933093 / 29.836502 | Analysis Start Date | 22/11/2023 |
| | Analysis End Date | 24/11/2023 |
| | Sample Quantity | 1000ML |

Test Result (As Per BIS 10500 :2012)

| S.No. | Tested Parameter | Result | Requirement (Acceptable Limit) | Permissible Lmt. (In the Absence of Alternate Source) | Protocol Used |
|-------|--------------------------------------|-----------|--------------------------------|---|------------------------------------|
| 1 | Total Dissolved Solids @ 180°C ± 2°C | 295 | 500 mg/lt. | 2000 mg/lt. | IS 3025 (Part-16) : 2023 |
| 2 | Total Hardness as CaCo3 | 170 | 200 mg/lt. | 600 mg/lt. | IS 3025 (Part-21) : 2009 (RA 2023) |
| 3 | Calcium as Ca | 28 | 75 mg/lt. | 200 mg/lt. | IS 3025 (Part-40) : 1991 (RA 2023) |
| 4 | Magnesium as Mg | 24 | 30 mg/lt. | 100 mg/lt. | IS 3025 (Part-46) : 2023 |
| 5 | Iron as Fe | 0.02 | 1.0 mg/lt. | 1.0 mg/lt. | USEPA-8008:2017 |
| 6 | Chloride as Cl | 57 | 250 mg/lt. | 1000 mg/lt. | IS 3025 (Part-32) : 1988 (RA 2019) |
| 7 | Sulphate as So4 | 24 | 200 mg/lt. | 400 mg/lt. | USEPA-8051:2017 |
| 8 | Fluoride as F | 0.460 | 1.0 mg/lt. | 1.5 mg/lt. | APHA 24th Edition-4500F C |
| 9 | Nitrate as No3 | 3.6 | 45 mg/lt. | 45 mg/lt. | APHA 24th Edition -4500 NO3 D |
| 10 | pH @ 25°C | 7.46 | 6.5 - 8.5 | 6.5 - 8.5 | IS 3025 (Part-11) : 2022 |
| 11 | Total Alkalinity | 220 | 200 mg/lt. | 600 mg/lt. | IS 3025 (Part-23) : 1986 (RA 2019) |
| 12 | Color | <5 | 5 Hazen Units | 15 Hazen Units | IS 3025 (Part 4): 2021 |
| 13 | Odour | Agreeable | Agreeable | Agreeable | IS 3025 (Part-5) :1984 (RA 2018) |
| 14 | Taste | Agreeable | Agreeable | Agreeable | IS 3025 (Part-8) :1984 (RA 2022) |
| 15 | Turbidity | <1 | 1 NTU | 5 NTU | IS 3025 (Part-10):1984 (RA 2022) |

Remarks :-

- The Results Given above are related to the sample as received and tested in PHED KARNAL Lab.
- The test report can't be regenerated in whole or part there of without written permission of Competent Authority.
- The test report can't be used for any publicity or any legal purpose.
- Reliability of water sample sample lies with sender/collector of water sample.
- To check the sample report online Scan the QR Code below.
- The test samples meant for chemical analysis will be disposed off after 15 days from the date of issue of test report unless until specifically requested by the customer for retaining over a longer period.



Tejinder Singh
Sample analyzed by :

Amrit Kumar
AMIT KUMAR, CHIEF CHEMIST 24/11/23
STATE WATER TESTING LABORATORY KARNAL
email: chiefchemist.kr@phedharyana.gov.in

Attested
Jasmeet
PRINCIPAL
PM SHRI GSSS
NILOKHERI (KARNAL)



Memo No:- 4396

Date:- 24/11/2023

Subject : **Physical / Chemical Examination Report of Water Sample**

| Sample ID/Classification : KNL/05684/11/2023 / Private | | Sample Details | Date & Time |
|--|--|---------------------|---------------------|
| Sender : | PRINCIPAL PM SHRI GSSS Nilokheri (KARNAL)26494 | Collected By | |
| Location : | , Nilokheri | Collection Date | 22/11/2023 at 16:27 |
| Sample Description : | Drinking Water | Received at lab | 22/11/2023 at 16:43 |
| Latitude / Longitude : | 76.933093 / 29.836502 | Analysis Start Date | 22/11/2023 |
| | | Analysis End Date | 23/11/2023 |
| | | Sample Quantity | 250ML |

Test Result (As Per BIS 10500 :2012)

| S.No. | Tested Parameter | Result | Requirement (Acceptable Lim:lt) | Permissible Lmt. (In the Absence of Alternate Source) | Protocol Used |
|-------|--------------------------------------|-----------|---------------------------------|---|------------------------------------|
| 1 | Total Dissolved Solids @ 180°C ± 2°C | 863 | 500 mg/lt. | 2000 mg/lt. | IS 3025 (Part-16) : 2023 |
| 2 | Total Hardness as CaCo3 | 410 | 200 mg/lt. | 600 mg/lt. | IS 3025 (Part-21) : 2009 (RA 2023) |
| 3 | Calcium as Ca | 68 | 75 mg/lt. | 200 mg/lt. | IS 3025 (Part-40) : 1991 (RA 2023) |
| 4 | Magnesium as Mg | 57.6 | 30 mg/lt. | 100 mg/lt. | IS 3025 (Part-46) : 2023 |
| 5 | Iron as Fe | 0.02 | 1.0 mg/lt. | 1.0 mg/lt. | USEPA-8008:2017 |
| 6 | Chloride as Cl | 106 | 250 mg/lt. | 1000 mg/lt. | IS 3025 (Part-32) : 1988 (RA 2019) |
| 7 | Sulphate as So4 | 50 | 200 mg/lt. | 400 mg/lt. | USEPA-8051:2017 |
| 8 | Fluoride as F | 0.610 | 1.0 mg/lt. | 1.5 mg/lt. | APHA 24th Edition-4500F C |
| 9 | Ntrate as No3 | 6.8 | 45 mg/lt. | 45 mg/lt. | APHA 24th Edition -4500 NO3 D |
| 10 | pH @ 25°C | 7.38 | 6.5 - 8.5 | 6.5 - 8.5 | IS 3025 (Part-11) : 2022 |
| 11 | Total Alkalinity | 600 | 200 mg/lt. | 600 mg/lt. | IS 3025 (Part-23) : 1986 (RA 2019) |
| 12 | Color | <5 | 5 Hazen Units | 15 Hazen Units | IS 3025 (Part 4): 2021 |
| 13 | Odour | Agreeable | Agreeable | Agreeable | IS 3025 (Part-5) :1984 (RA 2018) |
| 14 | Taste | Agreeable | Agreeable | Agreeable | IS 3025 (Part-8) :1984 (RA 2022) |
| 15 | Turbidity | <1 | 1 NTU | 5 NTU | IS 3025 (Part-10):1984 (RA 2022) |

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Joginder Singh
Sample analyzed by :

(Signature)
AKHIL KUMAR, CHIEF CHEMIST 24/11/23
STATE WATER TESTING LABORATORY, KARNAL
email:-chiefchemist.br@phedharyana.gov.in

(Signature)
Attested
Principal
PM SHRI GSSS
NILOKHERI (KARNAL)

Subject : Bacteriological Examination Report of Water Samples

Circle Karnal Circle

Division Karnal PHED No. 1

Sub Division Nilokheri PHESD

| S.No. | Tested Parameter * | Result (MPN) ** | Protocol Used | Potable / Not Potable |
|--|--|-----------------|---------------------------------|-----------------------|
| Memo No :- 4397, Date :- 24/11/2023 | | | | |
| 1 | Sample ID:-KNL/05682/11/2023 / Sender : PRINCIPAL PM Shri GSSS Nilokheri (KARNAL)26492 ,Location : , Nilokheri, Analysis Start/End Date: 22/11/2023 / 24/11/2023, GPS Coordinates: 76.933093 /29.836502 | | | |
| | Total Coliform per 100 ml | 0.0 | IS 15185:2016/ APHA 9221C; 2017 | Potable |
| 2 | Sample ID:-KNL/05685/11/2023 / Sender : PRINCIPAL PM Shri GSSS Nilokheri (KARNAL)26495 ,Location : , Nilokheri, Analysis Start/End Date: 22/11/2023 / 24/11/2023, GPS Coordinates: 76.933093 /29.836502 | | | |
| | Total Coliform per 100 ml | 0.0 | IS 15185:2016/ APHA 9221C; 2017 | Potable |
| Abstract Report of Bacteriological Examination Report of Water Sample | | | | |
| Total Sample | | Potable | | Not Potable |
| 2 | | 2 | | 0 |

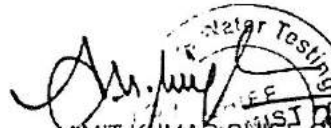
* Requirement (Acceptable Limit) : Shall not be detectable in any 100 ml sample

** MPN (Most Probable Number) Per 100 ML

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- * The test report can't be used for any public or any legal purpose.
- * Reliability of water sample sample lies with sender/collector of water sample.

Jayinder Singh
Sample analyzed by :


 AMIT KUMAR, CHIEF CHEMIST
 PUBLIC HEALTH ENGINEERING DEPARTMENT
 STATE WATER TESTING LABORATORY, KARNAL
 email: chiefchemist.hr@phedharyana.gov.in

Attested
Zarman
**PRINCIPAL
 PM SHRI GSSS
 NILOKHERI (KARNAL)**