

Memo No:- 2190

Date:- 10/05/2022

Certificate
No: TC-8407

Subject : Physical / Chemical Examination Report of Water Sample

| | |
|----------------------------|----------------------------------|
| Sample ID/Classification : | KNL/01223/5/2022 / Private |
| Sender : | PRINCIPAL, S.B.S.SR.SEC.SCH12205 |
| Location : | , RLY ROAD, KARNAL |
| Sample Description : | Drinking Water |
| Latitude / Longitude : | 76.982679 / 29.686486 |

| Sample Details | Date & Time |
|---------------------|-----------------------------|
| Collected By | PRINCIPAL, S.B.S.SR.SEC.SCH |
| Collection Date | 10/05/2022 at 11:16 |
| Received at lab | 10/05/2022 at 11:21 |
| Analysis Start Date | 10/05/2022 |
| Analysis End Date | 10/05/2022 |
| Sample Quantity | 1000ML |

Test Result (As Per BIS 10500 :2012)

| S No. | Tested Parameter | Result | Requirement (Acceptable Limit) | Permissible Limit (In the Absence of Alternate Source) | Protocol Used |
|-------|---|-----------|-----------------------------------|---|------------------------------------|
| 1 | Total Dissolved Solids @ 180°C ± 2°C | 450 | 500 mg/lit. | 2000 mg/lit. | IS 3025 (Part-16) : 1984 (RA 2017) |
| 2 | Total Hardness as CaCo ₃ | 220 | 200 mg/lit. | 600 mg/lit. | IS 3025 (Part-21) : 2009 (RA 2019) |
| 3 | Calcium as Ca | 48 | 75 mg/lit. | 200 mg/lit. | IS 3025 (Part-40) : 1991 (RA 2019) |
| 4 | Magnesium as Mg | 24 | 30 mg/lit. | 100 mg/lit. | IS 3025 (Part-46) : 1994 (RA 2019) |
| 5 | Iron as Fe | 0.01 | 1.0 mg/lit. | 1.0 mg/lit. | USEPA-8008:2017 |
| 6 | Chloride as Cl | 56 | 250 mg/lit. | 1000 mg/lit. | IS 3025 (Part-32) : 1988 (RA 2019) |
| 7 | Sulphate as So ₄ | 20 | 200 mg/lit. | 400 mg/lit. | USEPA-8051:2017 |
| 8 | Fluoride as F | 0.450 | 1.0 mg/lit. | 1.5 mg/lit. | APHA 4500-F--C |
| 9 | Nitrate as No ₃ | 2.0 | 45 mg/lit. | 45 mg/lit. | APHA 4500-NO ₃ - D |
| 10 | pH @ 25°C | 7.55 | 6.5 - 8.5 | 6.5 - 8.5 | IS 3025 (Part-11) : 1983 (RA 2017) |
| 11 | Total Alkalinity | 250 | 200 mg/lit. | 600 mg/lit. | IS 3025 (Part-23) : 1986 (RA 2019) |
| 12 | Color | <5 | 5 Hazen Units | 15 Hazen Units | IS 3025 (Part-4) : 1983 (RA 2017) |
| 13 | Odour | AGREEABLE | Agreeable | Agreeable | IS 3025 (Part-5) : 1984 (RA 2018) |
| 14 | Taste | AGREEABLE | Agreeable | Agreeable | IS 3025 (Part-8) : 1984 (RA 2017) |
| 15 | Turbidity | <1 | 1 NTU | 5 NTU | IS 3025 (Part-10):1984 (RA 2017) |

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.

PHED KARNAL
CHEMIST
10.05.2022



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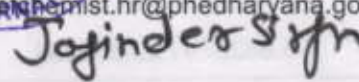
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Subject : **Physical / Chemical Examination Report of Water Sample**



Sample analyzed by :


 AMIT KUMAR, CHIEF CHEMIST
 STATE WATER TESTING LABORATORY, KARNAL
 email: amitchemist.hr@phedharyana.gov.in


| Sl. No. | Tested Parameter | Result | Standard / Permissible Limit | Remarks |
|---------|-------------------------------------|--------|------------------------------|---------|
| 1 | Total Dissolved Solids (TDS) | 150 | 500 mg/L | |
| 2 | Total Hardness (CaCO ₃) | 110 | 500 mg/L | |
| 3 | Calcium (Ca) | 48 | 75 mg/L | |
| 4 | Magnesium (Mg) | 24 | 30 mg/L | |
| 5 | Chloride (Cl) | 10.0 | 1.0 mg/L | |
| 6 | Sulfate (SO ₄) | 25 | 100 mg/L | |
| 7 | Fluoride (F) | 0.5 | 1.0 mg/L | |
| 8 | Iron (Fe) | 0.1 | 0.3 mg/L | |
| 9 | Copper (Cu) | 0.05 | 0.05 mg/L | |
| 10 | Zinc (Zn) | 0.05 | 0.05 mg/L | |
| 11 | Total Alkalinity | 150 | 200 mg/L | |
| 12 | pH | 7.5 | 6.5 - 8.5 | |
| 13 | Color | 15 | 15 Pt-Co | |
| 14 | Turbidity | 1.5 | 1.0 NTU | |
| 15 | Residual Chlorine | 0.5 | 0.2 - 0.5 mg/L | |