**Starred Assembly Question No. 52**

**Listed on 26.02.2024**

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**To Formulate Cluster Project for Drinking Water**

**\*52 Dr. KRISHAN LAL MIDDHA (Jind):**

Will the Public Health Engineering Minister be pleased to state:-

a) Whether there is any proposal under consideration of the Government to formulate the cluster project in order to provide drinking water to the villages Ikas, Intal Kalan, Intal Khurd, Jalalpur Kalan, Jalalpur Khurd, Sangatpura, Julani, Daryawala, Danda Kheri, Jajwan etc. under the Jind Assembly Constituency;

b) if so, the time by which it is likely to be formulated; and

c) the details of arrangements made by the Government for drinking water facility in above said villages at present?

**DR. BANWARI LAL,**

**MINISTER, HARYANA**

**PUBLIC HEALTH ENGINEERING DEPARTMENT**

Sir, A, statement is laid on the Table of the House.

**STATEMENT ANNEXED WITH THE REPLY TO STARRED ASSEMBLY QUESTION No. \*52 asked by DR. KRISHAN LAL MIDDHA (Jind)**

a) Sir, the details of proposals are as under:-

(i) The work for construction of canal based water works for Ikas and Jalalpur Khurd group of 2 No. villages is in progress against an administratively approved estimate costing Rs. 477.65 lacs.

(ii) The resolution for 2 villages namely, Intal Khurd and Dhanda Kheri has been received through Gram Panchayat for construction of independent canal based water works and the estimates are under preparation.

(iii) Matter is actively being pursued with the Gram Panchayat Intal Kalan and Jalalpur Kalan for giving consent to provide land for construction of a separate canal based water works for their village.

1. The canal based water works for Ikas and Jalalpur Khurd is expected to be commissioned by 30.06.2024 whereas the 2 canal based water works to serve villages Intal Khurd and Dhanda Kheri are likely to be completed within 18 months from the date of receipt of administrative approval to the estimates. The framing of a canal based project for Intal Kalan and Jalalpur Kalan 2 villages hinges on the availability of Panchayat resolution. The project will take 18 months for completion from the date of receipt of administrative approval.
2. At present, potable drinking water is being supplied to all the 10 villages through tubewell and canal based waterworks as detailed below and a status of 55 LPCD is being maintained in each village.

| **Sr. No.** | **Name of drinking water supply scheme** | **Name of villages served** | **Type of drinking**  **water supply scheme** | **Present drinking water supply status in Liters Per Capita Per Day (LPCD)** | **Remarks** |
| --- | --- | --- | --- | --- | --- |
| 1 | Ikas | Ikas | Tubewell based | 55 | The water supply from the tubewells is potable as the parameters are within the permissible limits |
| 2 | Jalalpur Khurd | Tubewell based | 55 |
| 3 | Jalalpur Kalan | Jalalpur Kalan | Tubewell based | 55 |
| 4 | Intal Kalan | Intal Kalan | Tubewell based | 55 |
| 5 | Sangatpura | Sangatpura | Canal based | 55 |
| 6 | Intal Khurd | Intal Khurd | Tubewell based | 55 |
| 7 | Jajwan | Jajwan | Canal based | 55 |
| 8 | Dhanda Kheri | Dhanda Kheri | Tubewell based | 55 |
| 9 | Daryawala | Daryawala | Canal based | 55 |
| 10 | Julani | Julani | Tubewell based | 55 |

**Executive Summary**

* A canal based water works for Ikas and Jalalpur Khurd group of 2 No. villages is in progress at an approved cost of Rs. 477.65 lacs.
* Villages Sangatpura, Jajwan and Dariyawala are being served through independent canal based water works.
* Canal based water supply projects are under preparation, post receipt of resolution for land from Gram Panchayats for village Intal Khurd and Dhanda Kheri.
* For a separate canal based water works to serve villages, Intal Kalan and Jalalpur Kalan, the matter is vigorously being pursued with the Gram Panchayats.
* Potable drinking water is being supplied to village Julani from a tubewell.
* Canal based waterworks for village Ikkas and Jalalpur Khurd is expected to be made functional by 30.06.2024.
* 2 canal based water works for villages Intal Khurd and Dhanad Kheri are likely to be commissioned within 18 months from the date of receipt of administrative approval to the estimates.
* Similarly, canal based water works for villages Intal Kalan and Jalalpur Kalan is likely to be commissioned within 18 months from the date of receipt of administrative approval to the estimate, provided land is arranged by the Gram Panchayat..
* Drinking water supply to villages, Ikkas, Jalalpur Kalan, Jalalpur Khurd, Intal Kalan and Intal Khurd, Dhanda Kheri and Julani is being supplied with potable water supply and a water supply status of 55 LPCD is being maintained.
* Villages Sangatpura, Jajwan and Dariyawala are being served from canal based water works with a water allowance of 55 LPCD.

**Note for pad in respect of Assembly Question \*52 asked by DR. KRISHAN LAL MIDDHA Hon’ble M.L.A of Jind Constituency.**

**Position of Jind Constituency**

There are **35** villages in Jind Constituency and drinking water is being supplied to these villages through **8** canal based water works and 21 tubewell based schemes. The position of drinking water supply is as follows:-

|  |  |
| --- | --- |
| **Water Supply Status**  **(in Liters Per Capita per Day)** | **Nos. of Villages** |
| Upto 20 LPCD | 0 |
| 21-29 LPCD | 0 |
| 30-39 LPCD | 0 |
| 40-55 LPCD | 35 |
| 55 LPCD & ABOVE | 0 |
| **Total** | **35 Villages** |

There is no deficiency of drinking water in villages of Jind Constituency. However, there are 15 schemes namely, Sri Rag Khera, Ahirka, Amarheri, Dalamwala, Haibatpur, Ikkas, Intal Kalan, Jalalpur Khurd, Jhanj Khurd, Kair Kheri, Kandela, Khokhri, Khunga, Manoharpur, Pindara where work for construction of new water works/ boosting stations/ strengthening of distribution system/Improvement of water supply systems etc. are in progress at an estimated cost of Rs. **4194.11** lakh against which an expenditure of Rs. **1989.24** lakh has been incurred till date. The scheme wise detail is given at **Annexure- A**.

Drinking water to Jind City is being supplied through 58 tubewells. 2 No. Works for improvement of water supply, that is, laying of distribution system, construction of canal based water works and installation of tubewells etc. are in progress at an estimated cost of Rs. **40715.54 lakh** against which an expenditure of Rs.**1846.51 lakh** has been incurred till date. The scheme wise detail is given at **Annexure- B**.

This apart, 4 No. works for improvement of sewerage system, namely, up-gradation of existing Sewage Treatment Plants (STP’s), laying of network of sewerage system etc. are in progress at an estimated cost of **Rs. 1891.73 lakh** against which an expenditure of **Rs. 39.63 lakh** has been incurred till date. The scheme wise details are appended at **Annexure-C**.

During the year 2023-24, the details of expenditure incurred in the rural and urban areas of Jind constituency are as under:-

**(Rs. in lakh)**

|  |  |  |
| --- | --- | --- |
| **Description** | **Funds allocated during 2023-24** | **Expenditure incurred**  **during 2023-24** |
| Rural Water Supply Scheme | 1438.26 | 1403.14 |
| Urban Water Supply Scheme | 67.62 | 3.87 |
| Urban Sewerage Scheme | 1325.40 | 1212.43 |
| **Total** | **2831.28** | **2619.44** |

**Annexure-A**

**Detail of works for construction of new water works/ boosting stations/ strengthening of distribution system/ arrangement of raw water through pumping etc. which are in progress in Jind Assembly Constituency.**

| **Sr. No.** | **Name of Scheme** | **Estimated Cost  (Rs. in lakh)** | **Upto date expenditure**  **(Rs. in lakh)** |
| --- | --- | --- | --- |
| 1 | **AHIRKA** Estimate For Providing Functional House Hold Tap Connections and Laying of Pipe Line Under JJM | 57.10 | 56.71 |
| 2 | **AMARHERI and TEG BAHADURPUR**:- Providing Functional house hold tap connection, laying of pipeline and installation of tubewells groupof 2 no. Villages | 189.96 | 168.49 |
| 3 | Construction of canal based water works for group of 5 No. Villages i.e. Dalamwala, Bohatwala, Khokhri, Haibatpur and Mando at village Khokhri ( Hansi Branch RD 17400/L) and laying of pipe with FHTC in village Dalamwala District Jind. | 1807.70 | 3.58 |
| 4 | **HAIBATPUR:-** Estimate for providing functional house hold tap connections and laying of pipe line under JJM. | 42.50 | 40.86 |
| 5 | **Ikkas** Const. of canal based waterworks group of 2 No. villages, Boosting Station, Pipe line and FHTC under JJM (2nd Phase) | 477.65 | 419.46 |
| 6 | **INTAL KALAN:-** Estimate for Providing Functional House Hold Tap Connections and Laying Of Pipe Line Under JJM | 62.55 | 61.82 |
| 7 | **JALALPUR KHURD** estimate for providing Functional house hold tap connection and laying of pipe line under JJM | 83.50 | 80.00 |
| 8 | **JHANJ KHURD:-**Providing facility water house tap connection, laying of Pipeline, Installation 1 No. Tubewell repair of water works under JJM 2nd Phase | 128.10 | 124.05 |
| 9 | **KANDELA** providing water house connections, laying of pipe line, installation of 1 no. Tubewell and pm under JJM | 219.80 | 215.29 |
| 10 | **KHOKHRI** Providing Functional House Hold Tap Connections and Laying Of Pipe Line Under JJM | 90.00 | 97.04 |
| 11 | **KHUNGA:-** Estimate for Providing Functional House Hold Tap Connections And Laying Of Pipe Line Under JJM | 27.45 | 13.00 |
| 12 | **MANOHARPUR** Providing functional house hold tap connection laying of pipe line, installation of 1 no. tubewell | 113.15 | 84.42 |
| 13 | **PINDARA** -Providing raw water arrangement for 3 Nos. canal based waterworks covering 6 Nos. villages construction of new water works at village Nirjan and distribution system with FHTC | 774.40 | 523.56 |
| 14 | Various villages Providing Drinking Water Supply Facility in Schools under the jurisdiction of PHED No. 1 Jind | 120.25 | 100.96 |
|  | **Total** | **4194.11** | **1989.24** |

**Annexure-B**

**Details of Ongoing Works under Urban Water Supply in Jind Constituency**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **Name of Work** | **Estimated Cost**  **(Rs. In Lacs)** | **Upto date expenditure (Rs. In Lacs)** |
| 1 | Construction of Canal Based Water Supply Scheme Jind City | 38827.31 | 0.00 |
| 2 | Jind City Purchase of land for independent canal based water works for Jind city at Barodi Road. | 1888.23 | 1846.51 |
|  | **Grand Total** | **40715.54** | **1846.51** |

**Annexure-C**

**Details of Ongoing Works under Urban Sewerage in Jind Constituency**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **Name of Work** | **Estimated Cost (Rs. In Lacs)** | **Upto date expenditure (Rs. In Lacs)** |
| 1 | Estimate for cleaning of various size sewer lines to be cleaning through Super Sucker De-silting Machine in Jind city, District Jind. | 498.80 | 0.00 |
| 2 | Jind City:- Estimate for Procurement of 1 No. Super Sucker Sewer Cleaning Machine at Jind City District Jind. | 263.96 | 0.00 |
| 3 | Jind town Create Tertiary Treatment facility at 1 No. sewage treatment plant of capacity 5 MLD based on MBBR Technology. | 307.00 | 39.63 |
| 4 | Jind town:- Providing and laying of sewer line in balance area including IPS Shyam Nagar and replacement of all abandoned/damaged existing sewer line in various colony at Jind town. | 821.97 | 0.00 |
| **Grand Total** | | **1891.73** | **39.63** |

**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04466/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4266 Dated: 23.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 23.10.2023

Sample Collected by : Party Self

Sample received on dated : 23.10.2023

Sample Location : T/Well Jajwan 2 2014

Sample Quantity : 2 Ltr

Date of Analysis started : 23.10.2023

Dated of analysis completed : 27.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.1 & Humidity (%) =58

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 1.05 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 520 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 394.02 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 73.01 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 51.48 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 362 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 89.68 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.89 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 68 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 3.16 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.04 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.97 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

* The results given above are related to the sample as received and tested in PHED Lab, Jind. Reliability of sample lies with the sender.
* Sample not collected by this Laboratory.
* The test report can’t be regenerated/re-produced in whole or in part without written permission of Laboratory.
* The test report can’t be used for any publicity or any legal purpose.
* 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.

(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04465/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4266 Dated: 23.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 23.10.2023

Sample Collected by : Party Self

Sample received on dated : 23.10.2023

Sample Location : T/Well Jajwan 1 2014

Sample Quantity : 2 Ltr

Date of Analysis started : 23.10.2023

Dated of analysis completed : 27.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.1 & Humidity (%) =58

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 1.29 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 511 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 326.7 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 63.48 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 40.90 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 256 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 93.62 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.66 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 58 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 1.73 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.03 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.78 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

* The results given above are related to the sample as received and tested in PHED Lab, Jind. Reliability of sample lies with the sender.
* Sample not collected by this Laboratory.
* The test report can’t be regenerated/re-produced in whole or in part without written permission of Laboratory.
* The test report can’t be used for any publicity or any legal purpose.
* 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.

(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Public Health Engineering Department, Water Testing Laboratory, Jind**

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**Test Report**

Test Report No. : JND/04467/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4266 Dated: 23.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 23.10.2023

Sample Collected by : Party Self

Sample received on dated : 23.10.2023

Sample Location : W/w (T/Well) Ikkas

Sample Quantity : 2 Ltr

Date of Analysis started : 23.10.2023

Dated of analysis completed : 27.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.1 & Humidity (%) =58

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 6.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 0.72 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 544 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 348.48 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 41.27 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 59.66 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 386 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 76.87 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 1.06 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 60 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 8.38 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.03 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.74 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

* The results given above are related to the sample as received and tested in PHED Lab, Jind. Reliability of sample lies with the sender.
* Sample not collected by this Laboratory.
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* 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.

(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Test Report**

Test Report No. : JND/05114/11/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4586 Dated: 29.11.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 29.11.2023

Sample Collected by : Party Self

Sample received on dated : 29.11.2023

Sample Location : T/Well Julani

Sample Quantity : 2 Ltr

Date of Analysis started : 29.11.2023

Dated of analysis completed : 30.11.2023

Issue Date : 30.11.2023

Environmental Conditions:-Temperature (°c) =25.8 & Humidity (%) =67

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 6.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 2.86 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 1211 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 366 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 38.48 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 65.61 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 528 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 81.97 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 1.29 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 82 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 13.6 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.04 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.91 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

* The results given above are related to the sample as received and tested in PHED Lab, Jind. Reliability of sample lies with the sender.
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* The test report can’t be used for any publicity or any legal purpose.
* 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.

(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04962/11/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4387 Dated: 17.11.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 17.11.2023

Sample Collected by : Party Self

Sample received on dated : 17.11.2023

Sample Location : W/Works Jajwan

Sample Quantity : 2 Ltr

Date of Analysis started : 17.11.2023

Dated of analysis completed : 20.11.2023

Issue Date : 24.11.2023

Environmental Conditions:-Temperature (°c) =26.5 & Humidity (%) =64

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 6.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 2.40 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 147 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 78 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 5.61 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 15.55 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 76 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 40.99 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.33 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 21 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 0.72 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | <0.02 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.71 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

* The results given above are related to the sample as received and tested in PHED Lab, Jind. Reliability of sample lies with the sender.
* Sample not collected by this Laboratory.
* The test report can’t be regenerated/re-produced in whole or in part without written permission of Laboratory.
* The test report can’t be used for any publicity or any legal purpose.
* 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.

(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04964/11/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4387 Dated: 17.11.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 17.11.2023

Sample Collected by : Party Self

Sample received on dated : 17.11.2023

Sample Location : T/Well Intal Kalan 2

Sample Quantity : 2 Ltr

Date of Analysis started : 17.11.2023

Dated of analysis completed : 20.11.2023

Issue Date : 24.11.2023

Environmental Conditions:-Temperature (°c) =26.5 & Humidity (%) =64

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 2.14 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 1682 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 564 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 88.18 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 83.59 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 512 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 369.88 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 1.43 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 330 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 5.99 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.06 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.53 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04437/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4253 Dated: 20.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 20.10.2023

Sample Collected by : Party Self

Sample received on dated : 20.10.2023

Sample Location : W/Works Sangatpura

Sample Quantity : 2 Ltr

Date of Analysis started : 20.10.2023

Dated of analysis completed : 26.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.4 & Humidity (%) =56

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 6.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 3.76 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 169 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 89.1 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 13.49 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 13.47 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 62 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 38.43 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.25 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 22 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 0.51 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.02 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.42 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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* Sample not collected by this Laboratory.
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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04438/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4253 Dated: 20.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 20.10.2023

Sample Collected by : Party Self

Sample received on dated : 20.10.2023

Sample Location : W/Works Dariyawala

Sample Quantity : 2 Ltr

Date of Analysis started : 20.10.2023

Dated of analysis completed : 26.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.4 & Humidity (%) =56

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 8.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 3.56 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 213 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 97.02 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 16.66 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 13.47 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 66 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 46.32 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.27 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 32 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 0.44 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.02 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.41 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04439/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4253 Dated: 20.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 20.10.2023

Sample Collected by : Party Self

Sample received on dated : 20.10.2023

Sample Location : T/Well Intal Khurd

Sample Quantity : 2 Ltr

Date of Analysis started : 20.10.2023

Dated of analysis completed : 26.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.4 & Humidity (%) =56

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 7.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 2.65 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 1253 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 481.14 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 49.99 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 86.60 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 384 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 338.03 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 1.28 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 260 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 10.1 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.05 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 8.13 | 6.5 to 8.5 | No relaxation | --------- |

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04436/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4253 Dated: 20.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 20.10.2023

Sample Collected by : Party Self

Sample received on dated : 20.10.2023

Sample Location : T/Well Intal Kalan

Sample Quantity : 2 Ltr

Date of Analysis started : 20.10.2023

Dated of analysis completed : 26.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.4 & Humidity (%) =56

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 6.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 2.12 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 1740 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 576.18 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 79.36 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 91.90 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 510 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 363.65 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 1.29 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 370 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 8.55 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.07 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.61 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04435/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4253 Dated: 20.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 20.10.2023

Sample Collected by : Party Self

Sample received on dated : 20.10.2023

Sample Location : T/Well Julani

Sample Quantity : 2 Ltr

Date of Analysis started : 20.10.2023

Dated of analysis completed : 26.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.4 & Humidity (%) =56

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 7.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 2.68 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 1182 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 368.28 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 26.98 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 73.13 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 526 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 198.09 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 1.40 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 95 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 13.8 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.05 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.96 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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* 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.

(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04479/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4268 Dated: 23.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 23.10.2023

Sample Collected by : Party Self

Sample received on dated : 23.10.2023

Sample Location : T/Well Jalalpur Kalan 2

Sample Quantity : 2 Ltr

Date of Analysis started : 23.10.2023

Dated of analysis completed : 27.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.1 & Humidity (%) =58

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 2.46 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 866 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 249.48 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 26.98 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 44.26 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 416 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 143.88 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.76 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 110 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 12.3 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.05 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 8.16 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04463/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4253 Dated: 23.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 23.10.2023

Sample Collected by : Party Self

Sample received on dated : 23.10.2023

Sample Location : T/Well Jalalpur Khurd

Sample Quantity : 2 Ltr

Date of Analysis started : 23.10.2023

Dated of analysis completed : 27.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.1 & Humidity (%) =58

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 1.33 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 618 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 419.76 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 66.61 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 61.58 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 490 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 101.51 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 1.39 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 64 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 10.1 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.03 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.87 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04962/11/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4387 Dated: 17.11.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 17.11.2023

Sample Collected by : Party Self

Sample received on dated : 17.11.2023

Sample Location : T/Well (at W/Works) Dariyawala

Sample Quantity : 2 Ltr

Date of Analysis started : 17.11.2023

Dated of analysis completed : 20.11.2023

Issue Date : 24.11.2023

Environmental Conditions:-Temperature (°c) =26.5 & Humidity (%) =64

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 1.68 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 788 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 452 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 68.14 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 68.53 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 404 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 136.96 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.75 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 80 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 10.5 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.04 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 8.15 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/05112/11/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4586 Dated: 29.11.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 29.11.2023

Sample Collected by : Party Self

Sample received on dated : 29.11.2023

Sample Location : T/Well No.1 at Dariyawala

Sample Quantity : 2 Ltr

Date of Analysis started : 29.11.2023

Dated of analysis completed : 30.11.2023

Issue Date : 30.11.2023

Environmental Conditions:-Temperature (°c) =25.8 & Humidity (%) =67

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 1.85 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 437 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 186 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 24.05 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 30.62 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 284 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 73.98 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.44 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 38 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 4.16 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.03 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.47 | 6.5 to 8.5 | No relaxation | --------- |

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/05113/11/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4586 Dated: 29.11.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 29.11.2023

Sample Collected by : Party Self

Sample received on dated : 29.11.2023

Sample Location : T/Well No.1 at Dariyawala

Sample Quantity : 2 Ltr

Date of Analysis started : 29.11.2023

Dated of analysis completed : 30.11.2023

Issue Date : 30.11.2023

Environmental Conditions:-Temperature (°c) =25.8 & Humidity (%) =67

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 1.99 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 398 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 176 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 20.84 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 30.13 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 270 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 65.98 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.36 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 31 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 3.73 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.02 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.59 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**PUBLIC HEALTH ENGINEERING DEPARTMENT WATER TESTING LABORATORY, JIND**

**Lab. No: -PC22/2020**

**1. Sender’s Address :** Sub Divisional Engineer,

PHE Sub Division No.1, Jind.

**2. Source of Sample :** T/Well at Booster at Vill. Dhanda Kheri

**3. Collected on :** 12.05.2020

**4. Received on :** 12.05.2020

**5. Ref. No. :** 831 **Dated: -** 12.05.2020

**6. Sample Submitted by :** SDE Office

**Memo No:- 509 Dated :- 18.05.2020**

**Chemical Analysis Report**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Substance/Characteristic** | **Result** | **Desirable Limit** | **Maximum Permissible Limit**  **(In Absence of Alternate Source)** |
| **As per IS:10500-2012 (second Revision)** | |
| 1. | **Total Dissolved Solids, mg/l** | 480 | 500 | 2000 |
| 2. | **Total Hardness, mg/l** | 420 | 200 | 600 |
| 3. | **Calcium (as Ca), mg/l** | 60 | 75 | 200 |
| 4. | **Magnesium (as Mg), mg/l** | 64.8 | 30 | 100 |
| 5. | **Alkalinity, mg/l** | 440 | 200 | 600 |
| 6. | **Chloride (as Cl), mg/l** | 49.7 | 250 | 1000 |
| 7. | **Sulphate (as SO4), mg/l** | 40 | 200 | 400 |
| 8. | **Fluoride (as F), mg/l** | 0.11 | 1.0 | 1.5 |
| 9. | **Iron (as Fe), mg/l** | 0.02 | 1.0 | No relaxn. |
| 10. | **Nitrate (as NO3), mg/l** | 1.1 | 45 | No relaxn. |
| 11. | **pH value** | 7.64 | 6.5-8.5 | No relaxn. |

**\* Reliability of sample lies with the collector/sender. The Sample was not collected by this lab.**

**OPINION**

**The above mentioned analysis of water sample does meet the requirement of IS: 10500-2012 (Second Revision).**

**Chemist,**

**Public Health Engineering Deptt.**

**Water Testing Laboratory, Jind**

पेयजल क्लस्टर परियोजना बनाना

**\*52 डॉŒ कृष्ण लाल feïk (जींद):**

क्या जन स्वास्थ्य अभियांत्रिकी मंत्री कृपया बताएंगे कि:-

क) क्या जीन्द विधानसभा निर्वाचन क्षेत्र के अंतर्गत र्इक्कस, र्इंटल-कलां, र्इंटल-खुर्द, जलालपुर कलां, जलालपुर खुर्द, संगतपुरा, जुलानी, दरियावाला, ढाण्ढा-खेड़ी, जाजवान इत्यादि गांवों को पेयजल उपलब्ध कराने के लिए क्लस्टर परियोजना बनाने का कोर्इ प्रस्ताव सरकार के विचाराधीन है;

ख) यदि हां, तो इसके कब तक बनाए जाने की संभावना है; तथा

ग) **वर्तमान में उपरोक्त गांव में पेयजल सुविधा के लिए सरकार द्वारा की गर्इ व्यवस्थाओं का ब्यौरा क्या है?**

**डॉŒ बनवारी लाल,**

**मंत्री, हरियाणा**

**जन स्वास्थ्य अभियांत्रिकी विभाग**

श्रीमान जी, एक कथन सदन के पटल पर प्रस्तुत है।

डॉ0 कृष्ण लाल **feïk** माननीय विधायक विधानसभा क्षेत्र जींद द्वारा पूछे गए विधानसभा तारांकित प्रश्न संख्या \***52** के उतर के साथ सलंग्न विवरण

क) श्रीमान् प्रस्तावों का विवरण इस प्रकार है:-

(i) 477.65 **लाख रुपये की लागत के प्रशासनिक रूप से अनुमोदित प्राकलन के विरूद्ध गांव र्इक्कस व जलालपुर-खुर्द 2 गांवों के समूह के लिए नहर आधारित जलघर के निर्माण का कार्य प्रगति पर है।**

(ii) 2 गांवों नामत: इंटल-खुर्द व ढांडा-खेड़ी में स्वतंत्र नहर आधारित जलघर के निर्माण के लिए ग्राम पंचायत के माध्यम से प्रस्ताव प्राप्त हुआ है व विभाग द्वारा प्राकलन तैयार किया जा रहा है।

(iii) ग्राम पंचायत इंटल-कलां और जलालपुर-कलां के साथ उन के गाँवों के लिए अलग नहर आधारित जलघरों के निर्माण के लिए भूमि प्रदान करने की सहमति देने बारे मामले पर सक्रिय रूप से चर्चा की जा रही है।

**ख) इकस और जलालपुर खुर्द के लिए नहर आधारित जलघर के** 30.06.2024 **तक चालू होने की संभावना है, जबकि इंटल खुर्द और ढांडा खेड़ी गांवों में पेयजल सुविधा के लिए 2 नहर आधारित जलघरों के प्राकलनों के अनुमोदन की प्रशासनिक स्वीकृति की प्राप्ति की तारीख से** 18 **महीने के भीतर पूरा होने की संभावना है। इंटल कलां और जलालपुर कलां 2 गांवों के लिए नहर आधारित परियोजना का निर्धारण पंचायत प्रस्ताव की उपलब्धता पर निर्भर करता है। प्रशासनिक स्वीकृति मिलने की तारीख से परियोजना को पूरा होने में** 18 **महीने लगेंगे।**

**ग) वर्तमान में, नीचे दिए गए विवरण के अनुसार सभी** 10 **गांवों में ट्यूबवेल और नहर आधारित जलघरों के माध्यम से पीने योग्य पानी की आपूर्ति की जा रही है और प्रत्येक गांव में** 55 **लीटर प्रति व्यक्ति प्रति दिन पेयजल आपूर्ति की स्थिति बनाए रखी जा रही है:-**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **क्र0** | **पेयजल आपूर्ति योजना का नाम** | **योजना में सम्मिलित गांवों का नाम** | **पेयजल आपूर्ति योजना का प्रकार** | **वर्तमान पेयजल आपूर्ति की स्थिति (लीटर प्रति व्यक्ति प्रति दिन में)** | **टिप्पणियाँ** |
| 1 | र्इक्कस | र्इक्कस | **नलकूप आधारित** | 55 | **नलकूपों से जल आपूर्ति पीने योग्य है क्योंकि पानी के पैरामीटर निधार्रित सीमा के भीतर है।** |
| 2 | ज्लालपुर-खुर्द | **नलकूप आधारित** | 55 |
| 3 | जलालपुर-कलां | जलालपुर-कलां | **नलकूप आधारित** | 55 |
| 4 | इंटल-कलां | इंटल-कलां | **नलकूप आधारित** | 55 |
| 5 | संगतपुरा | संगतपुरा | **नहर आधारित** | 55 |
| 6 | इंटल-खुर्द | इंटल-खुर्द | **नलकूप आधारित** | 55 |
| 7 | जाजवान | जाजवान | **नहर आधारित** | 55 |
| 8 | ढांडा-खेडी | ढांडा-खेडी | **नलकूप आधारित** | 55 |
| 9 | दरियावाला | दरियावाला | **नहर आधारित** | 55 |
| 10 | जुलानी | जुलानी | **नलकूप आधारित** | 55 |

जीन्द निर्वाचन क्षेत्र के माननीय विधायक डॉ0 कृष्ण लाल **feïk** द्वारा पूछे गए विधानसभा प्रश्न \*52 के संबंध में पैड के लिए नोट।

जींद विधानसभा निर्वाचन क्षेत्र की स्थिति

**जींद विधानसभा निर्वाचन क्षेत्र में 35 गांव हैं और इन गांवों में 8 नहर आधारित जलघरों और 21 ट्यूबवेल आधारित योजनाओं के माध्यम से पेयजल आपूर्ति की जा रही है। पेयजल आपूर्ति की स्थिति इस प्रकार है:-**

|  |  |
| --- | --- |
| जल आपूर्ति की स्थिति (लीटर प्रति व्यक्ति प्रति दिन में) | गांवों की संख्या |
| **20 लीटर प्रति व्यक्ति प्रति दिन तक** | 0 |
| **21-29 लीटर प्रति व्यक्ति प्रति दिन तक** | 0 |
| **30-39 लीटर प्रति व्यक्ति प्रति दिन तक** | 0 |
| **40-55 लीटर प्रति व्यक्ति प्रति दिन तक** | 35 |
| **55 लीटर प्रति व्यक्ति प्रति दिन तक और उस से अधिक** | 0 |
| **कुल** | **35 गांव** |

**जींद निर्वाचन क्षेत्र के गांवों में पीने के पानी की कोर्इ कमी नहीं है। हालाँकि, 15 योजनाएँ नामत: सिरी राग खेड़ा, अहिरका, अमरहेड़ी, दालमवाला, हैबतपुर, इक्कस, र्इंटल कलां, जलालपुर खुर्द, झांझ खुर्द, कैर खेड़ी, कंडेला, खोखरी, खुंगा, मनोहरपुर, पिंडारा जहां नए जलघरों/बूस्टिंग स्टेशनों के निर्माण/वितरण प्रणाली को मजबूत करना तथा जल आपूर्ति प्रणालियों में सुधार आदि के लिए कार्य जिनकी अनुमानित लागत 4194.11 लाख रूपये है कार्य प्रगति पर हैं जिस के विरूद्ध अब तक 1989.24 लाख रूपये का व्यय हो चुका है। जिसका योजनावार विवरण** अनुलग्नक-क **में दिया गया है।**

**जींद शहर को 58 ट्यूबवेलों के माध्यम से पेयजल आपूर्ति की जा रही है। जल आपूर्ति में सुधार के लिए 2 कार्य, अर्थात् वितरण प्रणाली बिछाना, नहर आधारित जलघरों का निर्माण और ट्यूबवेलों को लगाने आदि के कार्य प्रगति पर हैं, जिनकी अनुमानित लागत 40715.54 लाख रूपये है जिस के विरूद्ध अब तक 1846.51 लाख रुपये का व्यय हो चुका है। योजनावार विवरण** अनुलग्नक-ख **में दिया गया है।**

**इसके अतिरिक्त 4 सीवरेज प्रणाली में सुधार के लिए कार्य, अर्थात् मौजूदा सीवेज उपचार संयंत्रों (एसटीपी) का उन्नयन, सीवरेज प्रणाली का नेटवर्क बिछाना आदि, जिन की अनुमानित लागत 1891.73 लाख रूपये है जिस के विरूद्ध अब तक 39.63 लाख का खर्च हो चुका है। योजनावार विवरण** अनुलग्नक**-**ग **में संलग्न है।**

वर्ष **2023-24** के दौरान जींद विधानसभा क्षेत्र के ग्रामीण एवं शहरी क्षेत्रों में किये गये व्यय का विवरण इस प्रकार है:-

(रूपये लाखों में)

|  |  |  |
| --- | --- | --- |
| विवरण | वर्ष **2023-24** के दौरान आवंटित धनराशि | वर्ष **2023-24** के दौरान किया गया व्यय |
| ग्रामीण जलापूर्ति योजना | 1438.26 | 1403.14 |
| शहरी जलापूर्ति योजना | 67.62 | 3.87 |
| शहरी सीवरेज योजना | 1325.40 | 1212.43 |
| **कुल** | **2831.28** | **2619.44** |

अनुलग्नक-क

जींद विधानसभा क्षेत्र में चल रहे नये जल घरों/बूस्टिंग स्टेशनों के निर्माण/वितरण प्रणाली के सु**–**ढ़ीकरण/पम्पिंग के माध्यम से कच्चे पानी की व्यवस्था आदि के कार्यों का विवरण।

(रूपये लाखों में)

| **क्रं0 सं0** | **योजना का नाम** | **अनुमानित लागत** | **अब तक किया गया व्यय** |
| --- | --- | --- | --- |
| 1 | **अहिरका-** जल जीवन मिशन के अन्तर्गत कार्यात्मक घरेलू नल कनैक्शन प्रदान करने और पाइप लाइन बिछाने के लिए अनुमान। | 57.10 | 56.71 |
| 2 | **अमरहेरी और तेग बहादुरपुर-** कार्यात्मक घरेलू नल कनैक्शन प्रदान करना, पाइप लाइन बिछाना और 2 गांवों के समूह के लिए ट्यूबवेलों की स्थापना करना। | 189.96 | 168.49 |
| 3 | **गांव खोखरी-** (हांसी शाखा आर.डी. 17400-एल) में 5 गांवों के समूह अर्थात दालमवाला, बोहतवाला, खोखरी, हैबतपुर और मांडो के लिए नहर आधारित जल घरों का निर्माण और गांव दालमवाला में कार्यात्मक घरेलू नल कनैक्शन के साथ पाइप बिछाना जिला जींद। | 1807.70 | 3.58 |
| 4 | **हैबतपुर-** जल जीवन मिशन के अन्तर्गत कार्यात्मक घरेलू नल कनैक्शन प्रदान करने और पाइप लाइन बिछाने के लिए अनुमान। | 42.50 | 40.86 |
| 5 | **इक्कस-** जल जीवन मिशन (द्वितीय चरण) के अतंर्गत 2 गांवों के समूह के लिए नहर आधारित जलघर का निर्माण, बूस्टिंग स्टेशन का निर्माण, पाइप लाइन और कार्यात्मक घरेलू नल कनैक्शन प्रदान करना। | 477.65 | 419.46 |
| 6 | **इंटेल कलां-** जल जीवन मिशन के अन्तर्गत कार्यात्मक घरेलू नल कनैक्शन प्रदान करने और पाइप लाइन बिछाने के लिए अनुमान। | 62.55 | 61.82 |
| 7 | **जलालपुर खुर्द-** जल जीवन मिशन के अन्तर्गत कार्यात्मक घरेलू नल कनैक्शन प्रदान करने और पाइप लाइन बिछाने के लिए अनुमान। | 83.50 | 80.00 |
| 8 | **झांझ खुर्द-** जल जीवन मिशन द्वितीय चरण के अंतर्गत कार्यात्मक घरेलू नल कनैक्शन, पाइप लाइन बिछाने, एक ट्यूबवेल की स्थापना, की सुविधा प्रदान करना। | 128.10 | 124.05 |
| 9 | **कंडेला-** जल जीवन मिशन के अन्तर्गत जल कनैक्शन प्रदान, पाइप लाइन बिछाना, पम्पिंग मशीनरी सहित टयूबवेल लगाना। | 219.80 | 215.29 |
| 10 | **खोखरी-** जल जीवन मिशन के अन्तर्गत कार्यात्मक घरेलू नल कनैक्शन प्रदान करने और पाइप लाइन बिछाने के लिए अनुमान। | 90.00 | 97.04 |
| 11 | **खुंगा-** जल जीवन मिशन के अन्तर्गत कार्यात्मक घरेलू नल कनैक्शन प्रदान करने और पाइप लाइन बिछाने के लिए अनुमान। | 27.45 | 13.00 |
| 12 | **मनोहरपुर-** कार्यात्मक घरेलू नल कनैक्शन प्रदान करने, पाइप लाइन बिछाने और एक नलकूप लगाने का अनुमान। | 113.15 | 84.42 |
| 13 | **पिंडारा-** 6 गांवों को कवर करने वाले 3 नहर आधारित जलघरों के लिए कच्चे पानी की व्यवस्था प्रदान करना, गांव निरजन में नए जलघर का निर्माण और कार्यात्मक घरेलू नल कनैक्शन के साथ वितरण प्रणाली प्रदान करना। | 774.40 | 523.56 |
| 14 | जन स्वास्थ्य अभियान्त्रिकी मण्डल नं0 1 जींद के अधिकार क्षेत्र के अंतर्गत विभिन्न गांवों के स्कूलों में पेयजल आपूर्ति सुविधा प्रदान करना। | 120.25 | 100.96 |
|  | **कुल** | **4194.11** | **1989.24** |

अनुलग्नक-ख

जींद विधानसभा निर्वाचन क्षेत्र में शहरी जल आपूर्ति के अतंर्गत चल रहे कार्यों का विवरण

(रूपये लाखों में)

|  |  |  |  |
| --- | --- | --- | --- |
| **क्रं0 सं0** | **योजना का नाम** | **अनुमानित लागत** | **अब तक किया गया व्यय** |
| 1 | जींद शहर के लिए नहर आधारित जलापूर्ति योजना का निर्माण। | 38827.31 | 0.00 |
| 2 | जींद शहर के लिए बड़ोदी रोड पर स्वतंत्र नहर आधारित जल घर के लिए भूमि की खरीद। | 1888.23 | 1846.51 |
|  | **कुल** | **40715.54** | **1846.51** |

अनुलग्नक-ग

जींद विधानसभा निर्वाचन क्षेत्र में शहरी सीवरेज के अंतर्गत चल रहे कार्यों का विवरण

(रूपये लाखों में)

|  |  |  |  |
| --- | --- | --- | --- |
| **क्रं0 सं0** | **योजना का नाम** | **अनुमानित लागत** | **अब तक किया गया व्यय** |
| 1 | जींद शहर में सुपर सकर डी-सिल्टिंग मशीन के माध्यम से की जाने वाली विभिन्न आकार की सीवर लाइनों की सफार्इ का अनुमान (जिला जींद)। | 498.80 | 0.00 |
| 2 | **जींद शहर-** जींद शहर में एक सुपर सकर सीवर क्लीनिंग मशीन की खरीद का अनुमान (जिला जींद)। | 263.96 | 0.00 |
| 3 | जींद शहर में एमबीबीआर प्रौद्योगिकी पर आधारित 5 एमएलडी (मिलियन लीटर प्रतिदिन) क्षमता के एक सीवेज उपचार संयंत्र में तृतीयक उपचार सुविधा का निर्माण। | 307.00 | 39.63 |
| 4 | **जींद शहर-** आर्इपीएस (इन्टर मिडिएट पम्पिंग स्टेशन) श्याम नगर सहित शेष क्षेत्र में सीवर लाइन उपलब्ध कराना और बिछाना और जींद शहर में विभिन्न कॉलोनियों में सभी परित्यक्त/क्षतिग्रस्त मौजूदा सीवर लाइनों को बदलना। | 821.97 | 0.00 |
| **कुल** | | **1891.73** | **39.63** |

**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04466/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4266 Dated: 23.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 23.10.2023

Sample Collected by : Party Self

Sample received on dated : 23.10.2023

Sample Location : T/Well Jajwan 2 2014

Sample Quantity : 2 Ltr

Date of Analysis started : 23.10.2023

Dated of analysis completed : 27.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.1 & Humidity (%) =58

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 1.05 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 520 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 394.02 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 73.01 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 51.48 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 362 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 89.68 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.89 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 68 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 3.16 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.04 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.97 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

* The results given above are related to the sample as received and tested in PHED Lab, Jind. Reliability of sample lies with the sender.
* Sample not collected by this Laboratory.
* The test report can’t be regenerated/re-produced in whole or in part without written permission of Laboratory.
* The test report can’t be used for any publicity or any legal purpose.
* 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.

(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04465/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4266 Dated: 23.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 23.10.2023

Sample Collected by : Party Self

Sample received on dated : 23.10.2023

Sample Location : T/Well Jajwan 1 2014

Sample Quantity : 2 Ltr

Date of Analysis started : 23.10.2023

Dated of analysis completed : 27.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.1 & Humidity (%) =58

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 1.29 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 511 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 326.7 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 63.48 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 40.90 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 256 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 93.62 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.66 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 58 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 1.73 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.03 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.78 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

* The results given above are related to the sample as received and tested in PHED Lab, Jind. Reliability of sample lies with the sender.
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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04467/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4266 Dated: 23.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 23.10.2023

Sample Collected by : Party Self

Sample received on dated : 23.10.2023

Sample Location : W/w (T/Well) Ikkas

Sample Quantity : 2 Ltr

Date of Analysis started : 23.10.2023

Dated of analysis completed : 27.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.1 & Humidity (%) =58

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 6.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 0.72 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 544 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 348.48 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 41.27 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 59.66 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 386 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 76.87 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 1.06 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 60 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 8.38 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.03 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.74 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/05114/11/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4586 Dated: 29.11.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 29.11.2023

Sample Collected by : Party Self

Sample received on dated : 29.11.2023

Sample Location : T/Well Julani

Sample Quantity : 2 Ltr

Date of Analysis started : 29.11.2023

Dated of analysis completed : 30.11.2023

Issue Date : 30.11.2023

Environmental Conditions:-Temperature (°c) =25.8 & Humidity (%) =67

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 6.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 2.86 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 1211 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 366 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 38.48 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 65.61 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 528 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 81.97 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 1.29 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 82 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 13.6 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.04 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.91 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04962/11/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4387 Dated: 17.11.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 17.11.2023

Sample Collected by : Party Self

Sample received on dated : 17.11.2023

Sample Location : W/Works Jajwan

Sample Quantity : 2 Ltr

Date of Analysis started : 17.11.2023

Dated of analysis completed : 20.11.2023

Issue Date : 24.11.2023

Environmental Conditions:-Temperature (°c) =26.5 & Humidity (%) =64

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 6.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 2.40 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 147 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 78 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 5.61 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 15.55 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 76 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 40.99 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.33 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 21 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 0.72 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | <0.02 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.71 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04964/11/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4387 Dated: 17.11.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 17.11.2023

Sample Collected by : Party Self

Sample received on dated : 17.11.2023

Sample Location : T/Well Intal Kalan 2

Sample Quantity : 2 Ltr

Date of Analysis started : 17.11.2023

Dated of analysis completed : 20.11.2023

Issue Date : 24.11.2023

Environmental Conditions:-Temperature (°c) =26.5 & Humidity (%) =64

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 2.14 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 1682 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 564 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 88.18 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 83.59 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 512 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 369.88 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 1.43 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 330 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 5.99 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.06 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.53 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04437/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4253 Dated: 20.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 20.10.2023

Sample Collected by : Party Self

Sample received on dated : 20.10.2023

Sample Location : W/Works Sangatpura

Sample Quantity : 2 Ltr

Date of Analysis started : 20.10.2023

Dated of analysis completed : 26.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.4 & Humidity (%) =56

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 6.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 3.76 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 169 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 89.1 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 13.49 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 13.47 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 62 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 38.43 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.25 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 22 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 0.51 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.02 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.42 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04438/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4253 Dated: 20.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 20.10.2023

Sample Collected by : Party Self

Sample received on dated : 20.10.2023

Sample Location : W/Works Dariyawala

Sample Quantity : 2 Ltr

Date of Analysis started : 20.10.2023

Dated of analysis completed : 26.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.4 & Humidity (%) =56

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 8.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 3.56 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 213 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 97.02 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 16.66 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 13.47 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 66 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 46.32 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.27 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 32 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 0.44 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.02 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.41 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

* The results given above are related to the sample as received and tested in PHED Lab, Jind. Reliability of sample lies with the sender.
* Sample not collected by this Laboratory.
* The test report can’t be regenerated/re-produced in whole or in part without written permission of Laboratory.
* The test report can’t be used for any publicity or any legal purpose.
* 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.

(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04439/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4253 Dated: 20.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 20.10.2023

Sample Collected by : Party Self

Sample received on dated : 20.10.2023

Sample Location : T/Well Intal Khurd

Sample Quantity : 2 Ltr

Date of Analysis started : 20.10.2023

Dated of analysis completed : 26.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.4 & Humidity (%) =56

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 7.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 2.65 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 1253 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 481.14 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 49.99 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 86.60 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 384 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 338.03 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 1.28 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 260 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 10.1 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.05 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 8.13 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04436/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4253 Dated: 20.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 20.10.2023

Sample Collected by : Party Self

Sample received on dated : 20.10.2023

Sample Location : T/Well Intal Kalan

Sample Quantity : 2 Ltr

Date of Analysis started : 20.10.2023

Dated of analysis completed : 26.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.4 & Humidity (%) =56

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 6.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 2.12 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 1740 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 576.18 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 79.36 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 91.90 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 510 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 363.65 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 1.29 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 370 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 8.55 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.07 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.61 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04435/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4253 Dated: 20.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 20.10.2023

Sample Collected by : Party Self

Sample received on dated : 20.10.2023

Sample Location : T/Well Julani

Sample Quantity : 2 Ltr

Date of Analysis started : 20.10.2023

Dated of analysis completed : 26.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.4 & Humidity (%) =56

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 7.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 2.68 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 1182 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 368.28 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 26.98 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 73.13 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 526 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 198.09 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 1.40 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 95 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 13.8 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.05 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.96 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04479/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4268 Dated: 23.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 23.10.2023

Sample Collected by : Party Self

Sample received on dated : 23.10.2023

Sample Location : T/Well Jalalpur Kalan 2

Sample Quantity : 2 Ltr

Date of Analysis started : 23.10.2023

Dated of analysis completed : 27.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.1 & Humidity (%) =58

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 2.46 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 866 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 249.48 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 26.98 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 44.26 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 416 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 143.88 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.76 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 110 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 12.3 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.05 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 8.16 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04463/10/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4253 Dated: 23.10.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 23.10.2023

Sample Collected by : Party Self

Sample received on dated : 23.10.2023

Sample Location : T/Well Jalalpur Khurd

Sample Quantity : 2 Ltr

Date of Analysis started : 23.10.2023

Dated of analysis completed : 27.10.2023

Issue Date : 30.10.2023

Environmental Conditions:-Temperature (°c) =26.1 & Humidity (%) =58

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 1.33 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 618 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 419.76 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 66.61 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 61.58 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 490 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 101.51 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 1.39 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 64 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 10.1 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.03 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.87 | 6.5 to 8.5 | No relaxation | --------- |

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/04962/11/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4387 Dated: 17.11.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 17.11.2023

Sample Collected by : Party Self

Sample received on dated : 17.11.2023

Sample Location : T/Well (at W/Works) Dariyawala

Sample Quantity : 2 Ltr

Date of Analysis started : 17.11.2023

Dated of analysis completed : 20.11.2023

Issue Date : 24.11.2023

Environmental Conditions:-Temperature (°c) =26.5 & Humidity (%) =64

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 1.68 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 788 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 452 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 68.14 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 68.53 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 404 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 136.96 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.75 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 80 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 10.5 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.04 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 8.15 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

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(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/05112/11/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4586 Dated: 29.11.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 29.11.2023

Sample Collected by : Party Self

Sample received on dated : 29.11.2023

Sample Location : T/Well No.1 at Dariyawala

Sample Quantity : 2 Ltr

Date of Analysis started : 29.11.2023

Dated of analysis completed : 30.11.2023

Issue Date : 30.11.2023

Environmental Conditions:-Temperature (°c) =25.8 & Humidity (%) =67

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 1.85 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 437 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 186 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 24.05 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 30.62 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 284 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 73.98 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.44 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 38 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 4.16 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.03 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.47 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

* The results given above are related to the sample as received and tested in PHED Lab, Jind. Reliability of sample lies with the sender.
* Sample not collected by this Laboratory.
* The test report can’t be regenerated/re-produced in whole or in part without written permission of Laboratory.
* The test report can’t be used for any publicity or any legal purpose.
* 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.

(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Govt. of Haryana**

**Public Health Engineering Department, Water Testing Laboratory, Jind**

**Email id:** [**chemist.jnd@gmail.com**](mailto:chemist.jnd@gmail.com) **Ph.No.01681-246354**

**Test Report**

Test Report No. : JND/05113/11/2023

Issued To: : Sub Divisional Engineer

P.H.E. Sub Division No.1, Jind

Customer Reference No. : 4586 Dated: 29.11.2023

Sample Description : Water

Sample Type : Chemical Analysis

Sample collected on dated : 29.11.2023

Sample Collected by : Party Self

Sample received on dated : 29.11.2023

Sample Location : T/Well No.1 at Dariyawala

Sample Quantity : 2 Ltr

Date of Analysis started : 29.11.2023

Dated of analysis completed : 30.11.2023

Issue Date : 30.11.2023

Environmental Conditions:-Temperature (°c) =25.8 & Humidity (%) =67

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESULTS | | | | | | |
| Sr. No. | Parameter | Protocol Used | Results | IS: 10500: 2012 (RA-2018) | | Unit |
| Desirable limit | Max. Permissible limit (in absence better alternate source) |
| 1. | Taste | IS 3025(Part8): RA 2022 | Agreeable |  | Agreeable | --------- |
| 2. | Odour | IS 3025(Part5): RA 2018 | Agreeable |  | Agreeable | --------- |
| 3. | Colour | APHA 24th edition-2120-B | 5.0 | 5 | 15 | Hazen Unit |
| 4. | Turbidity | APHA 24th edition -2130 B | 1.99 | 1 | 5 | NTU |
| 5. | Total Dissolved Solids@180°c±2°c | APHA 24th edition -2540 C | 398 | 500 | 2000 | mg/L |
| 6. | Total Hardness | APHA 24th edition -2340 C | 176 | 200 | 600 | mg/L |
| 7. | Calcium (as Ca) | APHA 24th edition -3500-Ca B | 20.84 | 75 | 200 | mg/L |
| 8. | Magnesium (as Mg) | APHA 24th edition -3500 Mg B | 30.13 | 30 | 100 | mg/L |
| 9. | Total Alkalinity | APHA 24th edition - 2320 B | 270 | 200 | 600 | mg/L |
| 10. | Chloride (as Cl) | APHA 24th edition -4500 Cl B | 65.98 | 250 | 1000 | mg/L |
| 11. | Fluoride (as F) | APHA 24th edition -4500- F C | 0.36 | 1.0 | 1.5 | mg/L |
| 12. | Sulphate (as So4) | APHA 24th edition -4500-So4E | 31 | 200 | 400 | mg/L |
| 13. | Nitrate (as NO3) | APHA 24th edition -4500-No3D | 3.73 | 45 | 45 | mg/L |
| 14. | Iron (as Fe) | USEPA,APHA23rd edition-3500-Fe B | 0.02 | 1.0 | 1.0 | mg/L |
| 15. | pH @25°c | APHA 24th edition -4500-H+ B | 7.59 | 6.5 to 8.5 | No relaxation | --------- |

**Notes:**

* The results given above are related to the sample as received and tested in PHED Lab, Jind. Reliability of sample lies with the sender.
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* 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.

(Virender Singh)

Sample analyzed by: Sumit Authorized Signatory/Chemist

PHED Water Testing Laboratory, Jind

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_END OF TEST REPORT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**PUBLIC HEALTH ENGINEERING DEPARTMENT WATER TESTING LABORATORY, JIND**

**Lab. No: -PC22/2020**

**1. Sender’s Address :** Sub Divisional Engineer,

PHE Sub Division No.1, Jind.

**2. Source of Sample :** T/Well at Booster at Vill. Dhanda Kheri

**3. Collected on :** 12.05.2020

**4. Received on :** 12.05.2020

**5. Ref. No. :** 831 **Dated: -** 12.05.2020

**6. Sample Submitted by :** SDE Office

**Memo No:- 509 Dated :- 18.05.2020**

**Chemical Analysis Report**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Substance/Characteristic** | **Result** | **Desirable Limit** | **Maximum Permissible Limit**  **(In Absence of Alternate Source)** |
| **As per IS:10500-2012 (second Revision)** | |
| 1. | **Total Dissolved Solids, mg/l** | 480 | 500 | 2000 |
| 2. | **Total Hardness, mg/l** | 420 | 200 | 600 |
| 3. | **Calcium (as Ca), mg/l** | 60 | 75 | 200 |
| 4. | **Magnesium (as Mg), mg/l** | 64.8 | 30 | 100 |
| 5. | **Alkalinity, mg/l** | 440 | 200 | 600 |
| 6. | **Chloride (as Cl), mg/l** | 49.7 | 250 | 1000 |
| 7. | **Sulphate (as SO4), mg/l** | 40 | 200 | 400 |
| 8. | **Fluoride (as F), mg/l** | 0.11 | 1.0 | 1.5 |
| 9. | **Iron (as Fe), mg/l** | 0.02 | 1.0 | No relaxn. |
| 10. | **Nitrate (as NO3), mg/l** | 1.1 | 45 | No relaxn. |
| 11. | **pH value** | 7.64 | 6.5-8.5 | No relaxn. |

**\* Reliability of sample lies with the collector/sender. The Sample was not collected by this lab.**

**OPINION**

**The above mentioned analysis of water sample does meet the requirement of IS: 10500-2012 (Second Revision).**

**Chemist,**

**Public Health Engineering Deptt.**

**Water Testing Laboratory, Jind**