

**Test Report**

|                                                                                                           |  |                                   |  |                           |  |                            |  |
|-----------------------------------------------------------------------------------------------------------|--|-----------------------------------|--|---------------------------|--|----------------------------|--|
| Nature of sample :- Drinking Water Sample / Others                                                        |  | Not sampled by State Research Lab |  | Unique Identification No. |  | 48-A ✓                     |  |
| Sender's name and address<br><br>प्रति,<br>श्रीमति ममता भट्टाचार्य<br>महर्षि विद्या मंदिर रतनपुर<br>भोपाल |  | Sender's letter no.               |  | -                         |  | Sender's letter Date       |  |
|                                                                                                           |  | SRL Ref. No                       |  | 63 ✓                      |  | SRL receipt date           |  |
|                                                                                                           |  | Date of analysis started          |  | 23/04/26 ✓                |  | Date of analysis completed |  |
|                                                                                                           |  | Quantity Of sample                |  | Ok                        |  |                            |  |
|                                                                                                           |  |                                   |  |                           |  |                            |  |

**Sample details**

| No. | Particulars of Samples |
|-----|------------------------|
| 1.  | BOREWELL WATER SAMPLE  |

**RESULTS**

| Field.. Testing |                                               | RESULTS                                    |                                                               |                            |         |   |   |   |   |
|-----------------|-----------------------------------------------|--------------------------------------------|---------------------------------------------------------------|----------------------------|---------|---|---|---|---|
|                 |                                               | Discipline..Chemical                       | Group..Water                                                  | Sub. Group..Drinking Water |         |   |   |   |   |
| No.             | Characteristics/ Unit                         | test methods                               | BIS -10500:2012<br>Reaffirmed In Sep 2022                     |                            | Results |   |   |   |   |
|                 |                                               |                                            | Desirable Limit                                               | Permissible Limit          | 1       | 2 | 3 | 4 | 5 |
| 1               | 2                                             | 3                                          | 4                                                             | 5                          | 1       | 2 | 3 | 4 | 5 |
| 1               | Temperature in degree C                       | -                                          | --                                                            | --                         | 25°C    | - | - | - | - |
| 2               | Iron as Fe mg/l                               | APHA 24 <sup>th</sup> edition, 3500-Fe B   | 1.0                                                           | No Relaxation              | 0.23    | - | - | - | - |
| 3               | Manganese as Mg/l                             | Mn APHA 24 <sup>th</sup> edition 3500-mn-B | 0.1                                                           | 0.3                        | BDL     | - | - | - | - |
| 4               | Odour                                         | -                                          | Objectionable                                                 | Unobjectionable            | -       | - | - | - | - |
| 5               | Phenolphthalein Alkalinity as caCO3mg/l       | APHA. 24 <sup>th</sup> edition, 2320 B     | -                                                             | -                          | -       | - | - | - | - |
| 6               | Sodium as Na mg/l                             | APHA 24 <sup>th</sup> edition, 3500 -Na B  | -                                                             | -                          | -       | - | - | - | - |
| 7               | Potassium as K mg/l                           | APHA 24 <sup>th</sup> edition, 3500 -K B   | -                                                             | -                          | -       | - | - | - | - |
| 8               | Dissolved Oxygen mg/l                         | -                                          | -                                                             | -                          | -       | - | - | - | - |
| 9               | Chemical Oxygen Demand (COD)mg/l              | -                                          | -                                                             | -                          | -       | - | - | - | - |
| 10              | Biological Oxygen Demand (BOD) mg/l           | -                                          | -                                                             | -                          | -       | - | - | - | - |
| 11              | Jar Test for Alum & lime dosing fixation mg/l | -                                          | -                                                             | -                          | -       | - | - | - | - |
| 12              | Purity of Alum                                | -                                          | -                                                             | -                          | -       | - | - | - | - |
| 13              | Purity of Lime                                | -                                          | -                                                             | -                          | -       | - | - | - | - |
| 14              | Purity of Bleaching                           | -                                          | -                                                             | -                          | -       | - | - | - | - |
| 15              | Chlorine test Demand                          | -                                          | -                                                             | -                          | -       | - | - | - | - |
| 16              | Ecoli                                         | APHA 24 <sup>th</sup> edition, 9223 B      | NIL<br>NIL for treated water and water in distribution system | NIL                        | NIL     | - | - | - | - |
| 17              | Total coliform per 100 ml                     | APHA 24 <sup>th</sup> edition, 9223 B      |                                                               | NIL                        | -       | - | - | - | - |

1. This report should not be produced partly or full without approval of signatory authority for legal purposes.
2. It is recommended that acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" render the water not suitable, but still may be tolerated in the absence of an alternative source but upto the limits indicated under the "permissible limit in the absence of alternate source" in column 4, above which the sources will have to be rejected.
3. The results refer only to tested samples and parameters tested
4. Samples will be stored for a period of 15 days from the date of issue of report.
5. This lab does not hold any responsibility for variation in results for samples kept on hold for want of clarification.
6. This report allow only Non HABL parameters.

Reviewed by

(Sachin Yadav)

Quality Manager

STATE RESEARCH LABORATORY  
P. H. E. DEPARTMENT BHOPAL

Issue No. 69 /S.R.L./PHED/BPL /2026 Issue Date 27/4/26



**State Research Laboratory, (SRL)**  
**Public Health Engineering Department, P.H.E.D.**

Format No. SRL/PHED/BPL/4.1

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ULR No.

|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TC | 1 | 6 | 4 | 2 | 1 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 9 | F |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

TC- 16421

**Test Report**

|                                                                                                       |                          |                                   |          |                            |          |
|-------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------|----------|----------------------------|----------|
| Nature of sample :- Drinking Water Sample / Others                                                    |                          | Not sampled by State Research Lab |          | Unique Identification No.  | 48       |
| Sender's name and address<br>प्रति,<br>श्रीमति ममता भट्टाचार्य<br>महर्षि विद्या मंदिर रतनपुर<br>बोपाल | Sender's letter no.      |                                   | -        | Sender's letter Date       | 23/04/26 |
|                                                                                                       | SRL Ref. No              |                                   | 63       | SRL receipt date           | 23/04/26 |
|                                                                                                       | Date of analysis started |                                   | 23/04/26 | Date of analysis completed | 27/04/26 |
|                                                                                                       | Quantity Of sample       |                                   | Ok       |                            |          |

**Sample details**

|     |                        |
|-----|------------------------|
| No. | Particulars of Samples |
| 1.  | BOREWELL WATER SAMPLE  |

**RESULTS**

| Field.. Testing |                                            | Discipline..Chemical                                   | Group..Water                              |                   | Sub. Group..Drinking Water |   |   |   |   |
|-----------------|--------------------------------------------|--------------------------------------------------------|-------------------------------------------|-------------------|----------------------------|---|---|---|---|
| No.             | Characteristics/ Unit                      | test methods                                           | BIS -10500:2012<br>Reaffirmed in Sep 2022 |                   | Results                    |   |   |   |   |
|                 |                                            |                                                        | Desirable Limit                           | Permissible Limit | 1                          | 2 | 3 | 4 | 5 |
| 1               | 2                                          | 3                                                      | 4                                         | 5                 | 1                          | 2 | 3 | 4 | 5 |
| 1               | Colour in Hazen scale                      | -                                                      | 5                                         | 15                | BDL                        | - | - | - | - |
| 2               | Nitrate as NO <sub>3</sub> mg/l            | APHA 24 <sup>th</sup> edition, 4500 NO <sub>3</sub> -B | 45                                        | 45                | 1.68                       | - | - | - | - |
| 3               | Fluoride as F mg/l                         | APHA 24 <sup>th</sup> edition, 4500-F-C                | 1.0                                       | 1.5               | 0.14                       | - | - | - | - |
| 4               | Chloride as Cl mg/l                        | APHA 24 <sup>th</sup> edition, 4500 Cl-B               | 250                                       | 1000              | 125                        | - | - | - | - |
| 5               | Total Alkalinity as CaCO <sub>3</sub> mg/l | APHA 24 <sup>th</sup> edition, 2320 B                  | 200                                       | 600               | 44.0                       | - | - | - | - |
| 6               | Calcium as Ca <sup>++</sup> mg/l           | APHA 24 <sup>th</sup> edition, 3500 Ca-B               | 75                                        | 200               | 52.0                       | - | - | - | - |
| 7               | Magnesium as Mg <sup>++</sup> mg/l         | APHA 24 <sup>th</sup> edition, 3500 Mg-                | 30                                        | 100               | 28.32                      | - | - | - | - |
| 8               | Sulphate as SO <sub>4</sub> mg/l           | BIS:3025 (Part -24 )                                   | 200                                       | 400               | 35.62                      | - | - | - | - |
| 9               | pH pH Value at 25°C                        | APHA, 24 <sup>th</sup> edition 4500-H + B              | 6.5 to 8.5                                | 6.5 to 8.5        | 8.7                        | - | - | - | - |
| 10              | Turbidity in NTU                           | APHA 24 <sup>th</sup> edition, 2130 B                  | 1.0                                       | 5.0               | 1.2                        | - | - | - | - |
| 11              | Total hardness as CaCO <sub>3</sub> mg/l   | APHA 24 <sup>th</sup> edition, 2340 C                  | 200                                       | 600               | 248                        | - | - | - | - |
| 12              | Conductivity at 25°C (S/m)                 | APHA 24 <sup>th</sup> edition, 2510 B                  | -                                         | -                 | 921                        | - | - | - | - |
| 13              | TDS By meter mg/l                          | APHA 24 <sup>th</sup> edition, 2510 B                  | 500                                       | 2000              | 544                        | - | - | - | - |

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End of Report