

# DISTRICT WATER TESTING LABORATORY P.H.E.D. SATNA (M.P.)

BIS 10500:2012, Second Edition

*Indian Standard DRINKING WATER – SPECIFICATION (First Revision)*

Test characteristics for routine drinking water parameters

**Sample from :-** The Bhuwans Srijan Academy Satna District Satna M.P.

Received at LAB - 11/04/2025

**Date of Collection :-** 11/04/2025

**Type of Sample :-**

**Date of Analysis :-** 11/04/2025

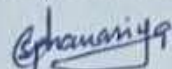
**Sample Detail :-**

| Sample.No. | District | Block | Habitation        | Location                         |
|------------|----------|-------|-------------------|----------------------------------|
| 1          | Satna    | Satna | Kothi Road Bagaha | The Bhuwans Srijan Academy Satna |

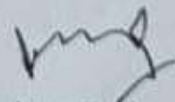
**Sample Collected By :-** The Bhuwans Srijan Academy Satna

| S.No | Characteristic                                                    | Desirable Limit | Permissible limit in absence of alternate source | Sample No.1     | Remark |
|------|-------------------------------------------------------------------|-----------------|--------------------------------------------------|-----------------|--------|
|      | <u>PHYSICAL TESTS:-</u>                                           |                 |                                                  |                 |        |
| 1    | Taste                                                             | Unobjectionable | -----                                            | -               |        |
| 2    | Odour                                                             | Unobjectionable | -----                                            | Unobjectionable |        |
| 3    | Turbidity, NTU,                                                   | 1.0             | 5.0                                              | 1.0             |        |
| 4    | <u>CHEMICAL TESTS :-</u><br>PH value ph scale,                    | 6.5 to 8.5      | No relaxation                                    | 7.50            |        |
| 5    | Arsenic mg/l                                                      | 0.01            | 0.01                                             | 0.0             |        |
| 6    | Colour hzn                                                        | 5               | 15                                               | 5.0             |        |
| 7    | Total Alkalinity mg/l,                                            | 200             | 600                                              | 12.00           |        |
| 8    | Iron (as Fe) mg/l,                                                | 0.3             | 1.0                                              | 0.10            |        |
| 9    | Chlorides (as Cl) mg/l,                                           | 250             | 1000                                             | 14.99           |        |
| 10   | Total Hardness (as CaCO <sub>3</sub> ) mg/l,                      | 200             | 600                                              | 52.00           |        |
| 11   | Calcium (as Ca) mg/l,                                             | 75              | 200                                              | -               |        |
| 12   | Magnesium ( as Mg),mg/l.                                          | 30              | 100                                              | -               |        |
| 13   | Total Dissolved solids, mg/l,                                     | 500             | 2000                                             | 71.00           |        |
| 14   | Manganese (as Mn) mg/l,                                           | 0.1             | 0.3                                              | -               |        |
| 15   | Sulphate (as SO <sub>4</sub> ) mg/l,                              | 200             | 400                                              | -               |        |
| 16   | Nitrate (as NO <sub>3</sub> ) mg/l,                               | 45              | 45                                               | 0.0             |        |
| 17   | Fluoride (as F) mg/l,                                             | 1.0             | 1.5                                              | 0.0             |        |
| 18   | Residual, free Chlorine, mg/l,<br><u>BACTERIOLOGICAL TESTS :-</u> | 0.2             | 1.0                                              | -               |        |
| 19   | E- Coli per 100 ml                                                | Nil             | -----                                            | -               |        |
| 20   | Total Coliform per 100 ml                                         | Nil             | -----                                            | -               |        |

**Note :-** samples will be stored for a period of 10 days from the date of issue of report.

  
Chemist

P.H.E. Sub- Division Satna  
Dist. Satna (M.P.)



Assistant Engineer  
P.H.E. Sub- Division Satna  
Dist. Satna (M.P.)