

**STATE LEVEL WATER TESTING LABORATORY (SLWTL)**  
**PHED, GOVT OF BIHAR,**  
**CHAJJUBAGH, PATNA-800001**  
 (Technical Consultancy by Scientific Research Laboratory),  
 90 Lake East(4th Road), Santoshpur,Jadavpur, Kolkata-700075

**TEST CERTIFICATE**

|  |                                  |
|--|----------------------------------|
| Report No:-PHE/Patna-DW_/D/Patna/20-21   | Date of Reporting :-03/01/2020   |
| Name of the Organisation/Person :- Rahmani School of Excellence<br>Belan Bazar, Munger, Bihar-811201 |                                  |
| Ref.Memo No:- TWIS/2019/034  | Sample Received On :- 03/01/2020 |
| Location : Belan Bazar, Munger, Bihar -805130  | Source of Sample : Boring        |
| Date of Sampling :- 03/01/2020   |                                  |

Sample Collected By : Sample not collected by us

**PHYSICO-CHEMICAL TEST REPORT**

| Sl.No. | Parameters                         | Desirable Limit* | Permissible Limit*<br>in absence of<br>alternate source | Method of Testing<br>Parameters | Result |
|--------|------------------------------------|------------------|---|---------------------------------|--------|
| 1      | PH Value                           | 6.5-8.5          | No relaxation   | pH meter                        | 7.1    |
| 2      | Turbidity,NTU,Max                  | 5.0              | 10.0  | Nephelometric                   | 4.9    |
| 3      | Conductivity,umho/co               | -                | -   | Conductivity meter              | 307    |
| 4      | Total Dissolved Solid,mg/l,Max.    | 500.0            | 2000.0  | Conductivity meter              | 234    |
| 5      | Total Hardness(asCaCO3), mg/l,Max  | 300.0            | 600.0   | EDTA method                     | 162.2  |
| 6      | Calcium (as Ca), mg/l, Max         | 75.0             | 200.0   | EDTA method                     | 22     |
| 7      | Magnesium (as Mg), mg/l, Max       | 30.0             | 100.0   | EDTA method                     | 14     |
| 8      | Chloride (as Cl), mg/l, Max.       | 250.0            | 1000.0  | Titration                       | 66     |
| 9      | Alkanlinity (as Caco3), mg/l, Max. | 200.0            | 600.0   | Titration                       | 162    |
| 10     | Iron (as Fe) , mg/l, Max.          | 0.3              | 1.0   | Phenonthroline<br>Method        | 0.29   |
| 11     | Nitrate (as NO3) , mg/l, Max.      | 45.0             | No relaxation   | UV Method                       | 1.92   |
| 12     | Suphate (SO4) , mg/l, Max.         | 200.0            | 400.0   | Turbidimetric Method            | 11.50  |
| 13     | Fluoride (as F) , mg/l, Max.       | 1.0              | 1.5   | SPANDS                          | 0.81   |
| 14     | Arsenic (as As) , mg/l, Max.       | 0.01             | 0.05  | SDDS method                     | BDL    |

Note:- (1) \* Drinking Water Specification First Revision –IS:10500:1991, Edition 2.2 (2003-09) (Reaffirmed1993)

(2) BDL means Below Detection Limit

(3) All the testing parameters methods are taken by APHA 20<sup>th</sup> Edition

**BACTERIOLOGICAL TEST REPORT**

| Sl.No. | Parameters                   | Permissible Limit | Method of Testing<br>Parameters | Result |
|--------|------------------------------|-------------------|---------------------------------|--------|
| 1      | Coliform Organisms.MPN/100ml | **                | M-Test Tube<br>Technique        | Absent |

\*\* (a) Throughout any year, 95% of the samples should not contain coliform organisms in 100ml.

(b) No sample should contain more than 10 coliform ogranisms per 100ml.

(c) Coliform organisms should not be detected in 100 ml of any two consecutive samples.

Note : This water sample is fit for Drinking Purpose.



Prepared by : Scientific Research Laboratory