

पत्रांक :- 1088 (SLWT/2019-20) 001 दिनांक:- 11/2/2020

प्रेषक,

Technical Manager

राज्य स्तरीय जल जाँच प्रयोगशाला,

पेय जल एवं स्वच्छता विभाग, राँची, झारखण्ड ।

सेवा में,

The Secretary,

Govindram Kataruka School,

Dhipatoli, P.O. – Pundag, Ranchi – 834004.

विषय:- जल जाँच के संबंध में।

महाशय,

उपरोक्त विषय के संदर्भ में कहना है कि दिनांक – 03/02/2020 को आपके द्वारा दिया गया जल नमुना का रासायनिक एवं जैविक जाँच समपन्न कर जल जाँच प्रतिवेदन आपको समर्पित किया जा रहा है।

अनुलग्नक :- 02 अदद।



विश्वासभाजन

L. M. 11/2/2020

Technical Manager

राज्य स्तरीय जल जाँच प्रयोगशाला, राँची।

## State Level Water Testing Laboratory ,Ranchi, Jharkhand

|   |                             |   |   |
|---|-----------------------------|---|---|
|  | <b>TEST ANALYSIS REPORT</b> | Doc No.: SLWTL-QP-5.10-01-F12<br>Issue No.: 01<br>Revision No.: 00<br>Date : 06.01.2016 | <br>NABL<br><b>Certificate No. – TC - 7351</b> |
|---|-----------------------------|---|---|

|  |   |
|--|---|
| Issued to : - The Secretary,<br>Govindram Kataruka School,<br>Dhipatoli, P.O. – Pundag, Ranchi – 834004. | Sample Code: - 200203-GW-A-003<br>Report ID : - TC735120000000149F<br>Date of Issue: – 11/02/2020<br>Customer Reference No. : - SLR/CLR/FEBRUARY-20/004 |
| Sample No. – 01 – Bore well water.   |   |

| Sample Particulars   | Details of Sampling   |
|--|---|
| Sample Name/Description: - Ground water.<br>Sample Quantity : - 1 Lit.<br>Sample pkg. Condition : - Good | Date of sampling : - N/A<br>Sample Receive date: - 03/02/2020<br>Sampling Protocol: - N/A<br>Sample collected by: - Customer<br>Sampling Location: - Final Outlet |

### Test Result

| Test started on: - | 03/02/2020                                   | Test completed on :- |         |  |  | 08/02/2020                                      |
|--------------------|--|----------------------|---------|--|--|---|
| Sl. No.            | Tested Parameter                             | Unit                 | Results | Method   | Specification as per IS – 10500:2012 (Second Revision) Amendment – June 2015 |   |
|                    |  |                      |         |  | Acceptable Limit   | Permissible Limit (Absence of Alternate source) |
| 1                  | pH   | -                    | 6.52    | APHA 23 <sup>rd</sup> Ed.2017-4500-H <sup>+</sup> B, (Electrometric method)  | 6.5 – 8.5  | No relaxation                                   |
| 2                  | Total Dissolved Solids at 180 <sup>o</sup> C | mg/L max             | 22      | APHA 23 <sup>rd</sup> Ed.2017-2540 C, Total Dissolved Solids Dried at 180 <sup>o</sup> c                             | 500  | 2000  |
| 3                  | Turbidity                                    | NTU max              | 1.3     | APHA 23 <sup>rd</sup> Ed.2017-2130 B, (Nephelometric method)   | 1  | 5   |
| 4                  | Colour                                       | Hazen unit           | 05      | APHA 23 <sup>rd</sup> Ed.2017-2120 B, (Visual Comparison method)   | 5  | 15  |
| 5                  | Total Alkalinity as CaCO <sub>3</sub>        | mg/L max             | 08      | APHA 23 <sup>rd</sup> Ed.2017-2320 B, (Titration method)   | 200  | 600   |
| 6                  | Total Hardness as CaCO <sub>3</sub>          | mg/L max             | 16      | APHA 23 <sup>rd</sup> Ed.2017-2340 C, (EDTA Titration method)  | 200  | 600   |
| 7                  | Calcium as (Ca)                              | mg/L max             | 3.2     | APHA 23 <sup>rd</sup> Ed.2017-3500 Ca B, (EDTA Titration method)   | 75   | 200   |
|                    | Magnesium as Mg                              | mg/L max             | -       | APHA 23 <sup>rd</sup> Ed.2017-3500-Mg B, (Calculation method)  | 30   | 100   |
| 9                  | Chloride as (cl)                             | mg/L max             | 3.97    | APHA 23 <sup>rd</sup> Ed.2017-4500 Cl <sup>-</sup> B, (Argent metric method)   | 250  | 1000  |
| 10                 | Fluoride as (F)                              | mg/L max             | 0.01    | APHA 23 <sup>rd</sup> Ed.2017-4500 F <sup>-</sup> C, (Ion selective electrode method)                                | 1.0  | 1.50  |
| 11                 | Nitrate as (NO <sub>3</sub> )                | mg/L max             | 0.38    | APHA 23 <sup>rd</sup> Ed.2017-4500 NO <sub>3</sub> <sup>-</sup> B, (Ultraviolet spectrophotometric screening method) | 45   | No relaxation                                   |
| 12                 | Iron as (Fe)                                 | mg/L max             | 0.05    | APHA 23 <sup>rd</sup> Ed.2017-3500 Fe B, (1,10-phenanthroline method)  | 1.0  | No relaxation                                   |
| 13                 | Arsenic as (As)                              | µg/L max             | BDL     | IS : 3025(part-2)-2004   | 10   | No relaxation                                   |

Remarks:- The Submitted sample of water confirm to IS – 10500 with respect to above test.

Specific contractual notes: -

- ◆ The results listed refer only to the tested sample and applicable parameter.
- ◆ This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
- ◆ This report can not be reproduced, except when in full, without the written permission of the Lab In-charge
- ◆ Tested Sample shall be retained up to Twenty One Days from the date of issue of the certificate.
- ◆ The liability of the laboratory is limited to the invoiced amount.
- ◆ All disputes are subjected to the Ranchi Jurisdiction.
- ◆ NOTE:- BDL=Below Detection Limit / DL=Detection Limit.

**STATE LEVEL WATER TESTING LABORATORY,**  
**DW&S Dept. Jharkhand, Ranchi.**

**BACTERIOLOGICAL TEST**

Source:- Ground water

Sample Provided by:- The Secretary,  
Govindram Kataruka School,  
Dhipatoli, P.O. – Pundag, Ranchi – 834004.

Date of sample received in State laboratory: - 03/02/2020

Location: - Sample No. – 01 – Bore well water.

|      |                                     | Value in ppm (mg/l) | BIS-91&2012(S.R)         |
|------|-------------------------------------|---------------------|--------------------------|
| S.N. | Testing parameters                  | Sample no.01        | Permissible limit (mg/l) |
| 01.  | MPN(100/ml)<br>Bacteriological Test | Nil                 | Nil                      |

**Remarks:** - The Submitted sample of water confirm to IS – 10500 with respect to above Bacteriological test.

  
Technical Manager  
State Level Water Testing Laboratory  
D.W. & S. Deptt., Hinoo, Ranchi