

पत्रांक :- 216(SLWT/L/2025-26) 001 दिनांक:- 12/7/2025

प्रेषक,

Technical Manager
राज्य स्तरीय जल जाँच प्रयोगशाला,
पेय जल एवं स्वच्छता विभाग, राँची, झारखण्ड।

सेवा में,

The Principal (Shyam Kumar Shah)
Indal High School(+2),
Muri, Jharkhand.

विषय:- जल जाँच के संबंध में।

महाशय,

उपरोक्त विषय एवं आपके मौखिक निर्देशानुसार दिनांक - 03/07/2025 को आपके द्वारा दिया गया जल नमूनों का रासायनिक एवं जैविक जाँच समपन्न कर जल जाँच प्रतिवेदन आपको समर्पित किया जा रहा है।

अनुलग्नक :- 06 अदद।



विश्वासभाजन

12/7/2025

Technical Manager

राज्य स्तरीय जल जाँच प्रयोगशाला, राँची।

State Level Water Testing Laboratory, Ranchi, Jharkhand

	TEST ANALYSIS REPORT	Doc No.: SLWTL-QP-4-F31 Issue No.: 01 Revision No.: 01 Date :18.02.2022	 TC-15212
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Issued to : - The Principal (Shyam Kumar Shah) Indal High School(+2), Muri, Jharkhand.	Sample Code: - 250703-DW-A-001 ULR NO. : - TC152122500000467F(A) Date of Issue: - 12/07/2025 Customer Reference No. : - SLR/CLR/JULY -25/010
Sample No. :- 01- Safe Drinking Water (R.O Filter from 1 st Floor).	

Sample Particulars	Details of Sampling
Sample Name/Description: - Drinking Water. Sample Quantity: -1 Lit Sample pkg. Condition: - Good	Date of sampling : - N/A Sample Received date: - 03/07/2025 Sample collected by: - Customer Sampling Location: - Final Outlet


Discipline: Chemical

Test started on: -		03/07/2025		Test completed on :-		11/07/2025	
Sl. No.	Test Parameter	Unit	Results	Method	Specification as per BIS 10500:2012 (Second Revision) Amendment – June 2015		
					Acceptable Limit	Permissible Limit (In Absence of Alternate source)	
1	pH	-	7.78	APHA 24 th Ed.2023-4500-II B, (Electrometric method)	6.5 – 8.5	No relaxation	
2	Total Dissolved Solids at 180 ^o C	mg/L max	282	APHA 24 th Ed.2023-2540 C, (Total Dissolved Solids Dried at 180 ^o C)	500	2000	
3	Turbidity	NTU max	1.2	APHA 24 th Ed.2023-2130 B, (Nephelometric method)	1	5	
4	Odour	-	Agreeable	IS 3025 (Part-5):2018	Agreeable	Agreeable	
5	Taste	-	Agreeable	IS 3025 (Part-7):2017	Agreeable	Agreeable	
6	Colour	Hazen unit	5	APHA 24 th Ed.2023-2120 B, (Visual Comparison method)	5	15	
7	Total Alkalinity as CaCO ₃	mg/L max	136	APHA 24 th Ed.2023-2320 B, (Titration method)	200	600	
8	Total Hardness as CaCO ₃	mg/L max	156	APHA 24 th Ed.2023-2340 C, (EDTA Titration method)	200	600	
9	Calcium as Ca	mg/L max	22.4	APHA 24 th Ed.2023-3500 Ca B, (EDTA Titration method)	75	200	
10	Magnesium as Mg	mg/L max	24.3	APHA 24 th Ed.2023-3500-Mg B, (Calculation method)	30	100	
11	Chloride as Cl	mg/L max	53.97	APHA 24 th Ed.2023-4500 Cl B, (Argentometric method)	250	1000	
12	Fluoride as F	mg/L max	0.61	APHA 24 th Ed.2023-4500 F ⁻ C, (Ion selective electrode method)	1.0	1.50	
13	Nitrate as NO ₃	mg/L max	21.95	APHA 24 th Ed.2023-4500 NO ₃ ⁻ B, (Ultraviolet spectrophotometric screening method)	45	No relaxation	
14	Iron as Fe	mg/L max	0.13	APHA 24 th Ed.2023-3500 Fe B, (1,10-phenanthroline method)	1.0	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 Fifteen 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


**Authorised Signatory
(Technical Manager)**

-----End of the Report----- **Technical Manager**
State Level Water Testing Laboratory
 DW & S Dept, Hingoo, Ranchi

State Level Water Testing Laboratory, Ranchi, Jharkhand

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Issued to : - The Principal (Shyam Kumar Shah) Indal High School(+2), Muri, Jharkhand.	Sample Code: - 250703-DW-A-001 ULR NO. : - TC152122500000467F(B) Date of Issue: - 12/07/2025 Customer Reference No. : - SLR/CLR/JULY -25/010
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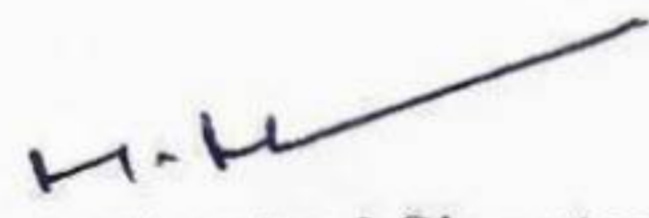
Sample Particulars	Details of Sampling
Sample Name/Description: - Drinking Water Sample Quantity: -1 Lit Sample pkg. Condition: - Good	Date of sampling : - N/A Sample Received date: - 03/07/2025 Sample collected by: - Customer Sampling Location: - Final Outlet

Discipline: Chemical - Residues in Water					11/07/2025	
Test started on: -		03/07/2025	Test completed on :-			
Sl. No.	Test Parameter	Unit	Results	Method	Acceptable Limit	Permissible Limit (In Absence of Alternate source)
01	Arsenic as As	µg/L max	BDL	IS 3025(part-2) 2019	10	No relaxation

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

Specific contractual notes: -



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**Authorised Signatory
(Technical Manager)**

-----End of the Report-----

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

State Level Water Testing Laboratory, Ranchi, Jharkhand

	TEST ANALYSIS REPORT	Doc No.: SLWTL-QP-4-F31 Issue No.: 01 Revision No.: 01 Date :18.02.2022	 TC-15212
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Issued to : - The Principal (Shyam Kumar Shah) Indal High School(+2), Muri, Jharkhand. Sample No. :- 01- Safe Drinking Water (R.O Filter from 1 st Floor).	Sample Code: - 250703-DW-A-001 ULR NO. : - TC152122500000467F(C) Date of Issue: - 12/07/2025 Customer Reference No. : - SLR/CLR/JULY -25/010
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Sample Particulars	Details of Sampling
Sample Name/Description: - Drinking Water. Sample Quantity: - 500 ml Sample pkg. Condition: - Good.	Date of sampling : -N/A Sample Received date: -03/07/2025 Sample collected by: - Customer Sampling Location: - Final Outlet

Discipline: Biological

Test started on: -	03/07/2025	Test completed on :-	04/07/2025		
Sl. No.	Test Parameter	Unit	Results	Method	Specification as per BIS – 10500:2012 (Second Revision) Amendment – June 2015
					Acceptable Limit Permissible Limit (In Absence of Alternate source)
1	Total Coliform	CFU/100mL	<1	APHA 24 th Ed.2023-9222 B (Membrane Filter Technique)	Shall not be detectable in any 100 mL sample
2	Thermotolerant (Fecal) Coliform	CFU/100mL	<1	APHA 24 th Ed.2023-9222 D (Membrane Filter Technique)	Shall not be detectable in any 100 mL sample

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

Specific contractual notes: -

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- ◆ The liability of the laboratory is limited to the invoiced amount.
- ◆ All disputes are subjected to the Ranchi Jurisdiction.
- ◆ Customer asked for above test only.
- ◆ <1 indicates the absence of bacteria.
- ◆ NOTE: - TNTC = Too Numerous To Count.





Authorised Signatory
(Arti Kumari)

State Level Water Testing Laboratory
Jharkhand, Ranchi

-----End of the Report----

State Level Water Testing Laboratory, Ranchi, Jharkhand

	TEST ANALYSIS REPORT	Doc No.: SLWTL-QP-4-F31 Issue No.: 01 Revision No.: 01 Date :18.02.2022	 TC-15212
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Issued to : - The Principal (Shyam Kumar Shah) Indal High School(+2), Muri, Jharkhand.	Sample Code: - 250703-DW-A-002 ULR NO. : - TC152122500000468F(A) Date of Issue: - 12/07/2025 Customer Reference No. : - SLR/CLR/JULY -25/010
Sample No. :- 02- R.O Filter Water from 2 nd Floor.	

Sample Particulars	Details of Sampling
Sample Name/Description: - Drinking Water. Sample Quantity: -1 Lit Sample pkg. Condition: - Good	Date of sampling : - N/A Sample Received date: - 03/07/2025 Sample collected by: - Customer Sampling Location: - Final Outlet


Discipline: Chemical

Test started on: -		03/07/2025		Test completed on :-		11/07/2025	
Sl. No.	Test Parameter	Unit	Results	Method	Specification as per BIS - 10500:2012 (Second Revision) Amendment - June 2015		
					Acceptable Limit	Permissible Limit (In Absence of Alternate source)	
1	pH	-	7.42	APHA 24 th Ed.2023-4500-H ⁺ B, (Electrometric method)	6.5 – 8.5	No relaxation	
2	Total Dissolved Solids at 180 ^o C	mg/L max	268	APHA 24 th Ed.2023-2540 C, (Total Dissolved Solids Dried at 180 ^o C)	500	2000	
3	Turbidity	NTU max	1.5	APHA 24 th Ed.2023-2130 B, (Nephelometric method)	1	5	
4	Odour	-	Agreeable	IS 3025 (Part-5):2018	Agreeable	Agreeable	
5	Taste	-	Agreeable	IS 3025 (Part-7):2017	Agreeable	Agreeable	
6	Colour	Hazen unit	5	APHA 24 th Ed.2023-2120 B, (Visual Comparison method)	5	15	
7	Total Alkalinity as CaCO ₃	mg/L max	112	APHA 24 th Ed.2023-2320 B, (Titration method)	200	600	
8	Total Hardness as CaCO ₃	mg/L max	132	APHA 24 th Ed.2023-2340 C, (EDTA Titration method)	200	600	
9	Calcium as Ca	mg/L max	28.8	APHA 24 th Ed.2023-3500 Ca B, (EDTA Titration method)	75	200	
10	Magnesium as Mg	mg/L max	14.58	APHA 24 th Ed.2023-3500-Mg B, (Calculation method)	30	100	
11	Chloride as Cl	mg/L max	57.97	APHA 24 th Ed.2023-4500 Cl ⁻ B, (Argentometric method)	250	1000	
12	Fluoride as F	mg/L max	0.58	APHA 24 th Ed.2023-4500 F ⁻ C, (Ion selective electrode method)	1.0	1.50	
13	Nitrate as NO ₃	mg/L max	22.64	APHA 24 th Ed.2023-4500 NO ₃ ⁻ B, (Ultraviolet spectrophotometric screening method)	45	No relaxation	
14	Iron as Fe	mg/L max	0.08	APHA 24 th Ed.2023-3500 Fe B, (1,10-phenanthroline method)	1.0	No relaxation	

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

Specific contractual notes: -



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Authorised Signatory
(Technical Manager)

-----End of the Report-----**Technical Manager**

State Level Water Testing Laboratory

State Level Water Testing Laboratory, Ranchi, Jharkhand

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Sample Particulars	Details of Sampling
Sample Name/Description: - Drinking Water Sample Quantity: -1 Lit Sample pkg. Condition: - Good	Date of sampling : - N/A Sample Received date: - 03/07/2025 Sample collected by: - Customer Sampling Location: - Final Outlet

Discipline: Chemical - Residues in Water						
Test started on: -		03/07/2025		Test completed on :-		11/07/2025
Sl. No.	Test Parameter	Unit	Results	Method	Acceptable Limit	Permissible Limit (In Absence of Alternate source)
01	Arsenic as As	µg/L max	BDL	IS 3025(part-2):2019	10	No relaxation

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

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(Technical Manager)

-----End of the Report-----

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

State Level Water Testing Laboratory, Ranchi, Jharkhand

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Issued to : - The Principal (Shyam Kumar Shah) Indal High School(+2), Muri, Jharkhand. Sample No. :- 02- R.O Filter Water from 2 nd Floor.	Sample Code: - 250703-DW-A-002 ULR NO. :- TC152122500000468F(C) Date of Issue: - 12/07/2025 Customer Reference No. :- SLR/CLR/JULY -25/010
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Sample Particulars	Details of Sampling
Sample Name/Description: - Drinking Water. Sample Quantity: - 500 ml Sample pkg. Condition: - Good.	Date of sampling : -N/A Sample Received date: -03/07/2025 Sample collected by: - Customer Sampling Location: - Final Outlet

Discipline: Biological

Sl. No.	Test Parameter	Unit	Results	Method	Specification as per BIS -- 10500:2012 (Second Revision) Amendment – June 2015
		Test started on: -		Test completed on :-	
		03/07/2025		04/07/2025	
					Acceptable Limit Permissible Limit (In Absence of Alternate source)
1	Total Coliform	CFU/100mL	<1	APHA 24 th Ed.2023-9222 B (Membrane Filter Technique)	Shall not be detectable in any 100 mL sample
2	Thermotolerant (Fecal) Coliform	CFU/100mL	<1	APHA 24 th Ed.2023-9222 D (Membrane Filter Technique)	Shall not be detectable in any 100 mL sample

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Jharkhand, Ranchi

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