



CIN: U74999JH2018PTC011125

# ENVIRONMENTAL LABORATORIES &

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA  
HATIA, RANCHI-834003 (JHARKHAND)  
GST NO:- 20AAECE9713D1Z4

**ENGINEERING SERVICES PVT. LTD.**

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Phone no.: 0651-2290103  
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TC-8839

## TEST REPORT

Test Report No. : ELES/RNC/2023/4823	Report Release Date : 23.12.2023
ULR No. : TC883923000002946F	

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: St. Xavier's College, Simdega	Sample Ref. No.	: ELES/RNC/2023/DW/4495
Address	: P.O.- Gotra, P.S.- Simdega,	Sampling Date	: 15.12.2023
	Dist- Simdega, Jharkhand-835235	Sample Received Date	: 16.12.2023
College Status	: Operational	Type of Sample	: Drinking Water
		Source of Sample	: RO Water
Period of Analysis	: 16.12.2023 to 23.12.2023	Location of Sample	: Near Seminar Hall
		Sampling Procedure	: ELES/DOC/SMPL/01
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

Discipline : Chemical		Group : Water		Regulatory Limit as per IS 10500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
pH (at 19.7°C)	-	APHA 23 <sup>rd</sup> Ed.2017, 4500-H <sup>+</sup> -B	6.92	6.5-8.5	No Relaxation
Turbidity	NTU	APHA 23 <sup>rd</sup> Ed.2017, 2130 B	0.30	1.0	5.0
Conductivity (at 24.8°C)	µS/cm	APHA 23 <sup>rd</sup> Ed.2017, 2510-B	220	--	--
Total Dissolved Solids (TDS)	mg/L	APHA 23 <sup>rd</sup> Ed.2017, 2540B,C&D	172	500	2000
Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	APHA 23 <sup>rd</sup> Ed.2017, 2320 B	46.4	200	600
Total Hardness (as CaCO <sub>3</sub> )	mg/L	APHA 23 <sup>rd</sup> Ed.2017, 2340 C	58.6	200	600
Chloride (as Cl)	mg/L	APHA 23 <sup>rd</sup> Ed.2017, 4500 Cl B	32.8	250	1000
Fluoride (as F)	mg/L	APHA 23 <sup>rd</sup> Ed.2017, 4500 F D	0.280	1.0	1.5
Nitrate (as NO <sub>3</sub> )	mg/L	APHA 23 <sup>rd</sup> Ed.2017, 4500 NO <sub>3</sub> -B	6.80	45	No Relaxation
Sulphate (as SO <sub>4</sub> )	mg/L	APHA 23 <sup>rd</sup> Ed.2017, 4500-SO <sub>4</sub> <sup>-2</sup> E	4.24	200	400
Residual Free Chlorine (RFC)	mg/L	IS 3025 (Part-26): 2021	BDL (DL:0.1)	0.02	1.0
Calcium (as Ca)	mg/L	APHA 23 <sup>rd</sup> Ed.2017, 3500 Ca B	14.2	75	200

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Discipline : Chemical		Group : Residues in Water		Regulatory Limit as per IS10500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
Arsenic (as As)	mg/L	IS 3025 (Part-37): 2022	BDL (DL: 0.005)	0.01	No Relaxation
Copper (as Cu)	mg/L	APHA 23 <sup>th</sup> Ed.2017, 3111B	BDL (DL: 0.03)	0.05	1.5
Iron (as Fe)	mg/L	APHA 23 <sup>th</sup> Ed.2017, 3111B	0.040	1.0	No Relaxation
Magnesium (as Mg)	mg/L	IS 3025 (Part-46) :1994; RA2019	BDL (DL: 5.0)	30	100
Zinc (as Zn)	mg/L	APHA 23 <sup>th</sup> Ed.2017, 3111B	BDL (DL: 0.1)	5.0	15

Remarks: pH & RFC done at site.

Reviewed by  
**Akash Kumar**  
Quality Manager

\*\*\*\*End of Report\*\*\*\*

Authorised Signatory  
**Rekha Saxena**  
B. Sc, M. Sc. (Botany)  
Director  
ELES Pvt. Ltd.

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		Sample Received Date	: 16.12.2023
College Status	: Operational	Type of Sample	: Drinking Water
		Source of Sample	: RO Water
Period of Analysis	: 16.12.2023 to 23.12.2023	Location of Sample	: Near Seminar Hall
		Sampling Procedure	: ELES/DOC/SMPL/01
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

Discipline : Biological		Group : Water		Regulatory Limit as per IS10500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
Total Coliform (Qualitative)	Per 100 mL	IS 15185:2016; RA 2021	Not Detected	Shall not be detected	
Escherichia coli (Qualitative)	Per 100 mL	IS 15185:2016; RA 2021	Not Detected		



  
Authorized Signatory

\*\*\*\*End of Report\*\*\*\*

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**"Save Environment, Save Future"**