

STATE LEVEL WATER TESTING LABORATORY (SLWTL)

PHED, GOVT. OF BIHAR

CHHAJJUBAGH, PATNA-800001

Technical Consultancy by - Scientific Research Laboratory
90, Lake East (4th Road), Santoshpur, Jadavpur, Kolkata-700075

TEST CERTIFICATE

Report No: SLWTL/2021/GW- 5951	Date of Reporting: 08.03.2021
Name of the Organisation/Person: Patmer School	Date of Sampling: 04.03.2021
Ref.Memo No: Pat-351/03/21Dated.04.03.2021	Sample Received on: 05.03.2021
Location: Khervynpur, Chandmari, Shahpur, Danapur, Patna-801503	Source of Sample: Drinking Water
Sample Collected & Submitted By: SLWTL	

PHYSICO-CHEMICAL TEST REPORT

Sl. No.	Parameters	Desirable Limit*	Permissible Limit* in absence of alternate source	Method of Testing Parameters	Results
1	pH Value	6.5-8.5	No relaxation	APHA, 4500-H+B	7.41
2	Turbidity, NTU, Max	1	5	APHA, 2130-B	0.50
3	Conductivity, μ mho/cm	-	-	APHA, 2510-B	590.30
4	Total Dissolved Solid, mg/l, Max.	500	2000	APHA, 2540-C	383.70
5	Total Hardness(as CaCO ₃), mg/l, Max	200	600	APHA, 2340-C	264.00
6	Calcium(as Ca), mg/l, Max	75	200	APHA, 3500-Ca B	54.50
7	Magnesium(as Mg), mg/l, Max	30	100	APHA, 3500-Mg B	31.10
8	Chloride(as Cl), mg/l, Max.	250	1000	APHA, 4500-Cl B	19.99
9	Alkalinity(as CaCO ₃), mg/l, Max.	200	600	APHA, 2320-B	332.00
10	Iron(as Fe), mg/l, Max.	1.0	No relaxation	APHA, 3030 E, 3111B & 3500 Fe B	0.01
11	Nitrate(as NO ₃), mg/l, Max.	45	No relaxation	APHA, 4500-NO ₃ -B	6.30
12	Sulphate(as SO ₄), mg/l, Max.	200	400	APHA, 4500-SO ₄ E	16.10
13	Fluoride(as F), mg/l, Max.	1.0	1.5	APHA, 4500-FD	0.50
14	Arsenic(as As), mg/l, Max.	0.01	No relaxation	APHA, 3500-As A & B	B.D.L
15	Manganese (as Mn), mg/l, Max.	0.10	0.30	IS, 3025 (Part 59)	ND

Note: * (i) Drinking Water Specification Second Revision -IS:10500:2012
(ii) All the testing parameters methods are taken from APHA 23rd Edition 2017.
(iii) BDL means Below Detection Limit

BACTERIOLOGICAL TEST REPORT

Sl. No.	Parameters	Permissible Limit	Method of Testing Parameters	Results
1	Coliform Organisms, MPN/100ml	**	M-Test-Tube Technique	<1.1

Note: **Shall not be detectable in any 100 ml sample

Copy forwarded for kind information to:

- Consultant Water Quality Cell, PHED, Govt. of Bihar
- Director, Water Quality Cell, PHED, Govt. of Bihar
- Engineer-in-Chief cum Special Secretary, PHED, Govt. of Bihar

The results are reported based on the materials received. Sample will be destroyed after 15 days from the date of issue of the certificate unless otherwise specified. Sample will be preserved according to standard method. The test report shall not be reproduced except in full, without the written permission of Laboratory.

Signature: 
SCIENTIFIC RESEARCH LABORATORY
PATNA