

DISTRICT LEVEL WATER QUALITY TESTING LABORATORY (DLWQTL) SAMASTIPUR.

Public Health Engineering Department, Government of Bihar

DRINKING WATER QUALITY TEST CERTIFICATE.

Name of District: Samastipur

Name of Person/Organization: Innovative Vision School

Sample Collected By: Not Collected by us

Sampling Date: 18.03.2025

Source of Sample: Boring

Sample No: Sam. No. 2025

Sample Receiving Date: 18.03.2025

Location	North Of Bahera Chowk, Nagarbasti, Ilmasnagar Road, Samastipur.
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PHYSICO-CHEMICAL & BACTERIOLOGICAL 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	pH meter	7.05
2	Turbidity, NTU, Max	5	10	Nephelometric	2
3	Conductivity, $\mu\text{mho/cm}$	-	-	Conductivity meter	318
4	Total Dissolved Solid, mg/l, Max	500	2000	Conductivity meter	210
5	Total Hardness (as CaCO_3), mg/l, Max	300	600	EDTA method	145
6	Calcium (as Ca), mg/l, Max	75	200	EDTA method	50
7	Magnesium (as Mg), mg/l, Max	30	100	EDTA method	18
8	Chloride (as Cl), mg/l, Max	250	1000	Titration	22.00
9	Alkalinity (as CaCO_3), mg/l, Max	200	500	Titration	165
10	Iron (as Fe), mg/l, Max	0.3	1	Phenanthroline	0.29
11	Nitrate (as NO_3), mg/l, Max	45	No relaxation	UV-method	0.14
12	Sulphate (as SO_4), mg/l, Max	200	400	Turbidimetric	25.00
13	Fluoride (as F), mg/l, Max	1	1.5	SPANDS	0.12
14	Arsenic (as As), mg/l, Max	0.01	0.05	SDDC	BDL
15	Coliform Organisms, MPN/100ml	**	**	H_2S Vials	-ve

Note:- Fit for Drinking Purpose as Above Parameters.

Note: *(1) Drinking Water Specification First Revision -IS:10500:1991, Edition 2.2(2003-09)(Reaffirmed 1993), (2) BDL = Below Detection Limit, (3) Testing Methods are taken by APHA 20th Edition, (4) NR = No Relaxation, (5) ND = Not Done.

(a) Throughout any year, 95% of the samples should not contain coliform organisms in 100ml, (b) No sample should contain more than 10 coliform organisms per 100ml.

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

Copy forwarded for information to (i) Consultant Water Quality Cell, PHED, Govt. of Bihar, (ii) Director, Water Quality Cell, PHED, Govt. of Bihar, (iii) Engineer-in-Chief cum Special Secretary, PHED, Govt. of Bihar

Chemist
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18/05/26

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