

**DISTRICT LEVEL WATER QUALITY TESTING LABORATORY (DLWQTL)  
SAMASTIPUR.**

**Public Health Engineering Department, Government of Bihar**

**DRINKING WATER QUALITY TEST CERTIFICATE**

Name of District: Samastipur

Sample Collected By: Not Collected by us

Sampling Date: 18.07.2025

Name of Person/Organization: Techno  
Mission School

Source of Sample RO

Sample 185/Sam/Jul/2025

Sample Receiving Date: 18.07.2025

Location:	Techno Mission School, Mohanpur, 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	7.00
2	Turbidity, NTU, Max	5	10	Nephelometric	1
3	Conductivity, $\mu\text{mho/cm}$	-	-	Conductivity meter	135
4	Total Dissolved Solid, mg/l, Max.	500	2000	Conductivity meter	85
5	Total Hardness (as $\text{CaCO}_3$ ), mg/l, Max	300	600	EDTA method	45
6	Calcium (as Ca), mg/l, Max	75	200	EDTA method	20
7	Magnesium (as Mg), mg/l, Max	30	100	EDTA method	15
8	Chloride (as Cl), mg/l, Max.	250	1000	Titration	18.00
9	Alkalinity (as $\text{CaCO}_3$ ), mg/l, Max.	200	600	Titration	64
10	Iron (as Fe), mg/l, Max.	0.3	1	Phenanthroline	0.29
11	Nitrate (as $\text{NO}_3$ ), mg/l, Max.	45	No relaxation	UV-method	0.8
12	Sulphate (as $\text{SO}_4$ ), mg/l, Max.	200	400	Turbidimetric	12.00
13	Fluoride (as F), mg/l, Max.	1	1.5	SPANDS	0.09
14	Arsenic (as As), mg/l, Max.	0.01	0.05	SDDC	BDL
15	Coliform Organisms, MPN/100ml	**	**	$\text{H}_2\text{S}$ 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

Poonam Kumari  
Manager  
Techno Mission School  
Samastipur, Bihar

A  
22/07/25  
Chemist  
P.H. Division, Samastipur  
  
Amor Khatun  
24-07-2025  
Principal  
Techno Mission School  
Samastipur, Bihar