

# 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: 21.03.2025

Name of Person/Organization: Sushila  
Indradeo Sharma Vidya Sansthan

Source of Sample: Boring

Sample 235/Sam/Mar/2025

Sample Reciving Date: 21.03.2025

Location:	Sushila Indradeo Sharma Vidya Sansthan limasnagar , 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	7.03
2	Turbidity, NTU, Max	5	10	Nephalometric	1
3	Conductivity, $\mu\text{mho/cm}$	-	-	Conductivity meter	265
4	Total Dissolved Solid, mg/l, Max.	500	2000	Conductivity meter	175
5	Total Hardness (as $\text{CaCO}_3$ ), mg/l, Max	300	600	EDTA method	160
6	Calcium (as Ca), mg/l, Max	75	200	EDTA method	51
7	Magnesium (as Mg), mg/l, Max	30	100	EDTA method	18
8	Chloride (as Cl), mg/l, Max.	250	1000	Titration	21.00
9	Alkalinity (as $\text{CaCO}_3$ ), mg/l, Max.	200	600	Titration	155
10	Iron (as Fe), mg/l, Max.	0.3	1	Phenonthroline	0.28
11	Nitrate (as $\text{NO}_3$ ), mg/l, Max.	45	No relaxation	UV-method	0.11
12	Sulphate (as $\text{SO}_4$ ), mg/l, Max.	200	400	Turbidimetric	15.00
13	Fluoride (as F), mg/l, Max.	1	1.5	SPANDS	0.13
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)(Reaffirmed1993), (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

