

**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: 26.05.2025

Name of Person/Organization: Birla  
Open Minds International School

Source of Sample RO

Sample 259/Sam/May/2025

Sample Receiving Date: 26.05.2025

Location:	Birla Open Minds International School, Samastipur, Gangapur, 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	7.07
2	Turbidity, NTU, Max	5	10	Nephelometric	1
3	Conductivity, $\mu\text{mho/cm}$	-	-	Conductivity meter	240
4	Total Dissolved Solid, mg/l, Max.	500	2000	Conductivity meter	160
5	Total Hardness (as $\text{CaCO}_3$ ), mg/l, Max	300	600	EDTA method	135
6	Calcium (as Ca), mg/l, Max	75	200	EDTA method	33
7	Magnesium (as Mg), mg/l, Max	30	100	EDTA method	12
8	Chloride (as Cl), mg/l, Max.	250	1000	Titration	22.00
9	Alkalinity (as $\text{CaCO}_3$ ), mg/l, Max.	200	600	Titration	129
10	Iron (as Fe), mg/l, Max.	0.3	1	Phenanthroline	0.43
11	Nitrate (as $\text{NO}_3$ ), mg/l, Max.	45	No relaxation	UV-method	0.13
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	0.11
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.

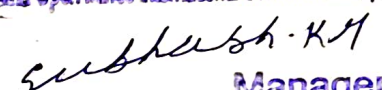
\*\* (a) Throughout any year, 95% of the samples should not contain coliform organisms in 100ml, (b) No sample should contain more than 10 coliform organisms per 100ml,

(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

  
30/05/25  
P.H. Division, Samastipur

  
**PRINCIPAL**  
BIRLA OPEN MINDS INT. SCHOOL  
SAMASTIPUR

**Birla Open Minds International School Samastipur**  
  
**Manager**