

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 15.04.2026

Name of Person/Organization: Apex
International School

Source of Sample: RO

Sample 185/Senu/Apr26

Sample Receiving Date: 15.04.2026

Location:	Apex International School, Gaighat, East Champaran
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PHYSICO-CHEMICAL & BACTERIOLOGICAL TEST REPORT

No. No.	Parameters	Desirable Limit*	Permissible Limit* in absence of alternate source	Method of Testing Parameters	Results
1	pH Value	6.5-8	5.35	pH meter	7.00
2	Turbidity, NTU, Max	5	10	Nephelometric	0
3	Conductivity, μ mhos/cm	500	500	Conductivity meter	135
4	Total Dissolved Solid, mg/l, Max	500	500	EDTA method	85
5	Total Hardness as CaCO ₃ , mg/l, Ma	65	65	EDTA method	65
6	Calcium (as Ca, mg), Max	40	40	EDTA method	40
7	Magnesium (as Mg, mg), Max	75	15	EDTA method	15
8	Chloride (as Cl), mg/l, Max	80	90	Titration	64
9	Alkalinity (as CaCO ₃ , mg/l, Max	283	50	Titration	64
10	Iron (as Fe), mg/l, Max	230	300	UV-visible	0.29
11	Nitrate (as NO ₃), mg/l, Max	45	2.0	Phenothidolme	0.20
12	Sulphate (as SO ₄), mg/l, Max	20	12	Turbidimetric	12
13	Fluoride (as F), mg/l, Max	0.01	0.9	SPANDS	0.80
14	Arsenic (as As), mg/l, Max	0.01	0.001	SDDC	0
15	Coliform Organisms, MPN/100ml	--	--	MPN/mls	0

Note: For Drinking Purpose as Above Parameters.

Note 1) Drinking Water Specification First Revision -IS 19500 1991 Edition 2, 20000 (1991) Edition 1983, 12) BDL - Bacteri Detection Limit (5), 30055 Methods are taken by APHA, 20m Edition (1991) - 507 Revision (3100) - Not Done

(1) Throughout a year (95%) of the samples tested should not contain coliform organisms in 100ml and any sample should contain not more than 100m organisms in 100ml

(2) Coliform organisms should not be detected in 100ml of any 100 coliform samples

Copy Information Office :- The Convener Engineer Water Quality Cell PHED, Govt of Bihar; Director Water Quality Cell PHED, Govt of Bihar; Office of Chief Engineer cum Special Secretary PHED Govt of Bihar

18-04-2026
Chemist
P.H. Division

