

**DISTRICT LEVEL WATER QUALITY TESTING LABORATORY (DLWQTL) E.CHAMPARAN,
MOTIHARI.**



Public Health Engineering Department, Government of Bihar



DRINKING WATER QUALITY TEST CERTIFICATE

Name of District : East Champaran

Sample Collected By : Not Collected by us.

Sampling Date : 23.2.2026

Source of Sample : Boring

Sample Receiving Date in Lab: 23.2.2026

Date of Testing : 23.2.2026

Sample Code: 230/MOT/FEB/2026

Name of Person/Organization/Location:	Arya Vidyapith, Balganga, Motihari, East Champaran.
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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	7.21
2	Turbidity, NTU, Max	5	10	Nephelometric	1.00
3	Conductivity, $\mu\text{mho/cm}$	-	-	Conductivity meter	380
4	Total Dissolved Solid, mg/l, Max.	500	2000	Conductivity meter	250
5	Total Hardness (as CaCO_3), mg/l, Max	300	600	EDTA method	205.00
6	Calcium (as Ca), mg/l, Max	75	200	EDTA method	55.19
7	Magnesium (as Mg), mg/l, Max	30	100	EDTA method	28.10
8	Chloride (as Cl), mg/l, Max.	250	1000	Titration	35.00
9	Alkalinity (as CaCO_3), mg/l, Max.	200	600	Titration	230
10	Iron (as Fe), mg/l, Max.	1	No relaxation	Phenanthroline	0.11

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.

K. Singh 23/02/26
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