

**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: 05.06.2023

Name of Person/Organization: D.A.V.Public
School

Source of Sample: Boring

Sample Code: 17/Mot/Jun/2023

Sample Reciving Date: 05.06.2023

Location:	D.A.V.Public School, 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	7.02
2	Turbidity, NTU, Max	5	10	Nephelometric	2
3	Conductivity, μ mho/cm	-	-	Conductivity meter	180
4	Total Dissolved Solid, mg/l, Max	500	2000	Conductivity meter	120
5	Total Hardness (as CaCO ₃), mg/l, Max	300	600	EDTA method	114
6	Calcium (as Ca), mg/l, Max	75	200	EDTA method	38.43
7	Magnesium (as Mg), mg/l, Max	30	100	EDTA method	14.56
8	Chloride (as Cl), mg/l, Max	250	1000	Titration	27.61
9	Alkalinity (as CaCO ₃), mg/l, Max	200	600	Titration	170
10	Iron (as Fe), mg/l, Max	0.3	1	Phenanthroline	0.14
11	Nitrate (as NO ₃), mg/l, Max	45	No relaxation	UV-method	0.19
12	Sulphate (as SO ₄), mg/l, Max	200	400	Turbidimetric	21.42
13	Fluoride (as F), mg/l, Max	1	1.5	SPANDS	0.21
14	Arsenic (as As), mg/l, Max	0.01	0.05	SDDC	BDL
15	Coliform Organisms, MPN/100ml	**	**	H ₂ S Viats	-ve

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


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10/06/23
Chemist
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