

**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: 19-05-2023

Name of Person/Organization-
C.M.J.Institute Of Education

Source of Sample: Boring

Sample Code: 146/MOT/May/2023

Sample Receiving Date: 19.05.2023

Location:	C.M.J. Institute Of Education, Bankat, 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, µmho/cm	-	-	Conductivity meter	260
4	Total Dissolved Solid, mg/l, Max.	500	2000	Conductivity meter	170
5	Total Hardness (as CaCO ₃), mg/l, Max	300	600	EDTA method	128
6	Calcium (as Ca), mg/l, Max	75	200	EDTA method	34.52
7	Magnesium (as Mg), mg/l, Max	30	100	EDTA method	9.67
8	Chloride (as Cl), mg/l, Max.	250	1000	Titration	11.71
9	Alkalinity (as CaCO ₃), mg/l, Max.	200	600	Titration	160
10	Iron (as Fe), mg/l, Max.	0.3	1	Phenanthroline	0.25
11	Nitrate (as NO ₃), mg/l, Max.	45	No relaxation	UV-method	0.03
12	Sulphate (as SO ₄), mg/l, Max.	200	400	Turbidimetric	14.46
13	Fluoride (as F), mg/l, Max.	.1	1.5	SPANDS	0.08
14	Arsenic (as As), mg/l, Max.	0.01	0.05	SDDC	BDL
15	Coliform Organisms, MPN/100ml	**	**	H ₂ S Vials	-ve

Note:- Fit for Drinking Purpose as Above Parameters.

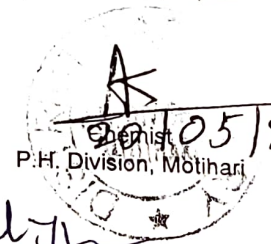
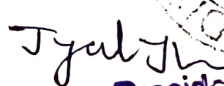
Note: *(1) Drinking Water Specification First Revision -IS:10500:1991, Edition 2.2(2003-09)(Reaffirmed1993), (2) BDL = Below Detection Limit, (3) Testing Methods are taken by APHA 20th Edition. (4) NR = No Relaxation, (5) ND = Not Done.

** (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


 08/6/23
Principal
C.M.J. Institute of Education
Bankat, Motihari


 19/05/23
 P.H. Division, Motihari

President
C.M.J. Institute of Education
Bankat, Motihari
East Champaran