

**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
Sampling Date: 02.09.2022
Sample Code: 22/Mot/Sep/2022

Name of Person/Organization: Jeewan Public
School

Sample Collected By: Not Collected by us

Source of Sample: Boring

Sample Receiving Date: 02.09.2022

Valid up To

01.03.2022

Location:	Jeewan Public School, Sarsaula Barawa Lakhaura, 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	7.3
2	Turbidity, NTU, Max	1	5	Nephelometric	1.00
3	Conductivity, $\mu\text{mho/cm}$	-	-	Conductivity meter	440
4	Total Dissolved Solid, mg/l, Max.	500	2000	Conductivity meter	290
5	Total Hardness (as CaCO_3), mg/l, Max	300	600	EDTA method	215
6	Calcium (as Ca), mg/l, Max	75	200	EDTA method	57.16
7	Magnesium (as Mg), mg/l, Max	30	100	EDTA method	18.79
8	Chloride (as Cl), mg/l, Max.	250	1000	Titration	14.06
9	Alkalinity (as CaCO_3), mg/l, Max.	200	600	Titration	240
10	Iron (as Fe), mg/l, Max.	1	No relaxation	Phenanthroline	0.26
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	13.65
13	Fluoride (as F), mg/l, Max.	1	1.5	SPANDS	0.15
14	Arsenic (as As), mg/l, Max.	0.01	No relaxation	SDDC	BDL
15	Coliform Organisms, MPN/100ml	**	**	H_2S 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



22