

**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: 04.04.2022

Name of Person/Organization: Creation Gurukool school

Source of Sample: Boring

Sample 26/Ram/Apr/2022

Sample Receiving Date: 04.04.2022
Valid up To- 03-07-2022

Location:	Creation Gurukool School Ward No-12 Ramgadhwa 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	7.04
2	Turbidity, NTU, Max	5	10	Nephelometric	1
3	Conductivity, μ mho/cm	-	-	Conductivity meter	270
4	Total Dissolved Solid, mg/l, Max.	500	2000	Conductivity meter	180
5	Total Hardness (as CaCO ₃), mg/l, Max	300	600	EDTA method	139
6	Calcium (as Ca), mg/l, Max	75	200	EDTA method	28.43
7	Magnesium (as Mg), mg/l, Max	30	100	EDTA method	8.66
8	Chloride (as Cl), mg/l, Max.	250	1000	Titration	8.59
9	Alkalinity (as CaCO ₃), mg/l, Max.	200	600	Titration	130
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	0.04
12	Sulphate (as SO ₄), mg/l, Max.	200	400	Turbidimetric	9.77
13	Fluoride (as F), mg/l, Max.	1	1.5	SPANDS	0.11
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)(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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