

GOVT. OF BIHAR
DISTRICT LEVEL LABORATORY

Public Health Engineering Department
PH. Division, Banka


TEST REPORT

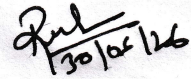
Name of Source :- B.D.ACADEMY	Date of Reporting:- 30.06.2026
Location :- Khemichak, Amarpur, Banka, Bihar	Date of Sampling :- 22.06.2026
Sample Collected By :- Rajeev Kumar	Source of Sample:- Borewell

PHYSICO-CHEMICAL TEST REPORT

Sl.No.	Parameters	Desirable Limit*	Permissible Limit* in absence of alternate source	Method of Testing Parameters	Result
1	PH Value	6.5-8.5	No relaxation	Electrometric Method	7.2
2	Turbidity	1.0	5.0	Nephelometric	2.1
3	Conductivity, $\mu\text{mho/cm}$	-	-	Instrumental Method	392
4	Total Dissolved Solid, mg/l	500	2000	Instrumental Method	254
5	Total Hardness(as CaCO_3), mg/l	200	600	EDTA method	141.12
6	Calcium(as Ca), mg/l	75	200	EDTA method	37.24
7	Magnesium(as Mg), mg/l	30	100	EDTA method	11.31
8	Chloride(as Cl), mg/l	250	1000	Titration Method	28.39
9	Alkalinity(as CaCO_3), mg/l	200	600	Titration Method	121.52
10	Iron(as Fe), mg/l	0.3	1.0	Phenanthroline Method	0.14
11	Nitrate(as NO_3), mg/l	45.0	No relaxation	UV-method	2.2
12	Sulphate(as SO_4), mg/l	200	400	Turbidimetric Method	16
13	Fluoride(as F), mg/l	1.0	1.5	ION Method	0.68
14	Bacteriological Test	0.0	0.0	By H ₂ S Strip Vial	Not Found

Note:- (1) * Drinking Water Specification Second Revision -IS:10500:2012
(2) BDL means Below Detection Limit
(3) All the testing parameters methods are taken by APHA 20th Edition


30.06.2026
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30/06/26
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