

# STATE LEVEL WATER TESTING LABORATORY (SLWTL)

PHED, GOVT. OF BIHAR  
CHHAJJUBAGH, PATNA-800001

Technical Consultancy by - Scientific Research Laboratory  
90, Lake East (4<sup>th</sup> Road), Santoshpur, Jadavpur, Kolkata-700075

## TEST CERTIFICATE

Name of the Organisation/Person: BAHERA PUBLIC SCHOOL	Date of Reporting: 16.04.2019
Ref.Memo No: 56/2019 DT.16.04.2019	Date of Sampling: 19.04.2019
Location: Bahera, Darbhanga	Source of Sample: R O Water
Sample Collected By: Not Collected by SLWTL	

### PHYSICO-CHEMICAL 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	7.10
2	Turbidity, NTU, Max	5.0	10.0	Nephelometric	1.00
3	Conductivity, $\mu$ mho/cm	-	-	Conductivity meter	1.70
4	Total Dissolved Solid, mg/l, Max.	500.0	2000.0	Conductivity meter	98.00
5	Total Hardness(as CaCO <sub>3</sub> ), mg/l, Max	300.0	600.0	EDTA method	84.00
6	Calcium(as Ca), mg/l, Max	75.0	200.0	EDTA method	12.35
7	Magnesium(as Mg), mg/l, Max	30.0	100.0	EDTA method	5.12
8	Chloride(as Cl), mg/l, Max.	250.0	1000.0	Titration	31.22
9	Alkalinity(as CaCO <sub>3</sub> ), mg/l, Max.	200.0	600.0	Titration	68.00
10	Iron(as Fe), mg/l, Max.	0.3	1.0	Phenonthroline	0.03
11	Nitrate(as NO <sub>3</sub> ), mg/l, Max.	45.0	No relaxation	UV-method	0.37
12	Sulphate(as SO <sub>4</sub> ), mg/l, Max.	200.0	400.0	Turbidimetric	1.14
13	Fluoride(as F), mg/l, Max.	1.0	1.5	SPANDS	0.21
14	Arsenic(as As), mg/l, Max.	0.01	0.05	AAS	BDL

Note: \*(1) Drinking Water Specification First Revision -IS:10500:1991, Edition 2.2(2003-09)(Reaffirmed 1993)

(2) BDL means Below Detection Limit

(3) All the testing parameters methods are taken by APHA 20th Edition

### BACTERIOLOGICAL TEST REPORT

Sl. No.	Parameters	Permissible Limit	Method of Testing Parameters	Results
1	Coliform Organisms, MPN/100ml	**	M-Test-Tube Technique	< 1.1

Note: \*\* (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

**NOTE: This water sample is fit for drinking purpose.**

Prepared by: Scientific Research Laboratory

