

# 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

Report No: PAT/SLWTL/MIA/DW/2020	Date of Reporting: 10.02.2020
Name of the Organisation/Person: Mother's International Academy	Sample Received on: 07.02.2020
Ref.Memo No: NM	Date of Sampling: 06.02.2020
Location: F.C.I , Road, Phulwari Sharif Patna -801505	Source of Sample: Drinking 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	540.00
4	Total Dissolved Solid, mg/l, Max.	500.0	2000.0	Conductivity meter	342.00
5	Total Hardness(as CaCO <sub>3</sub> ), mg/l, Max	300.0	600.0	EDTA method	228.00
6	Calcium(as Ca), mg/l, Max	75.0	200.0	EDTA method	52.64
7	Magnesium(as Mg), mg/l, Max	30.0	100.0	EDTA method	27.34
8	Chloride(as Cl), mg/l, Max.	250.0	1000.0	Titration	54.36
9	Alkalinity(as CaCO <sub>3</sub> ), mg/l, Max.	200.0	600.0	Titration	240.00
10	Iron(as Fe), mg/l, Max.	0.3	1.0	Phenonthroline	0.26
11	Nitrate(as NO <sub>3</sub> ), mg/l, Max.	45.0	No relaxation	UV-method	1.24
12	Sulphate(as SO <sub>4</sub> ), mg/l, Max.	200.0	400.0	Turbidimetric	10.12
13	Fluoride(as F), mg/l, Max.	1.0	1.5	SPANDS	0.22
14	Arsenic(as As), mg/l, Max.	0.01	No relaxation	AAS	BDL

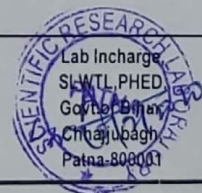
Note: \*(1) Drinking Water Specification First Revision -IS:10500:2012  
(2) BDL means Below Detection Limit  
(3) All the testing parameters methods are taken by APHA 20th Edition

### BACTERIOLOGICAL TEST REPORT

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

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