

Water Analysis Report

Date: 02-11-2023

Sample Description: Drinking Water

Analysis Done by: Department of Chemistry, Pragjyotish College

Permissible limit of the Test parameters: pH : 6.5-8.5 (BIS)

Conductivity : 2500 $\mu\text{S}/\text{cm}$

TDS (Total Dissolved Solids) : 2000 mg/l

Total Hardness : 200-1000 ppm (BIS)

Chloride : 1000 mg/l

Iron: 1.0 mg/l

Sample Description: Drinking Water

Area: North of Santipur Main Road (Team A)

Sl No.	Sample ID	Sample Location	Results					
			pH	Conductivity ($\mu\text{S}/\text{cm}$)	TDS (mg/l)	Total Hardness (mg/l)	Chloride (mg/l)	Iron (mg/l)
1	PC/23/001	Santipur main branch Road	7.1	0.349	0.30	180	18.4	0.15
2	PC/23/002	Santipur main branch Road	7.0	0.234	0.20	140	13.8	0.22
3	PC/23/003	Santipur main branch Road	7.7	0.365	0.30	224	16.6	0.15
4	PC/23/004	Santipur main branch Road	7.3	0.362	0.30	220	10.1	0.11
5	PC/23/005	Santipur main branch Road	6.8	0.246	0.20	140	12.0	0.14
6	PC/23/006	Ratantriya Apartment, Santipur	7.5	0.278	0.20	160	11.0	0.17
7	PC/23/007	Santipur Ashram Road	7.6	0.218	0.20	140	92.1	0.17
8	PC/23/008	Santipur Ashram Road	7.5	0.256	0.10	80	14.9	0.11
9	PC/23/009	Santipur Road	6.6	0.0374	ND	20	15.6	0.15
10	PC/23/0010	Santipur Road Near Railway Crossing	7.2	0.137	0.10	70	14.7	0.12



Sample Description: Drinking Water

Area: South of Santipur Main Road (Team B)

Sl No.	Sample ID	Sample Location	Results					
			pH	Conductivity (μS/cm)	TDS (mg/l)	Total Hardness (mg/l)	Chloride (mg/l)	Iron (mg/l)
1	PC/23/011	Santipur	7.0	0.290	0.20	136	17.5	0.15
2	PC/23/012	Santipur	7.3	0.744	0.60	256	82.0	0.22
3	PC/23/013	Pragjyotish Path	6.9	0.677	0.50	200	78.3	0.15
4	PC/23/014	Pragjyotish Path	7.0	0.737	0.60	220	76.5	0.11
5	PC/23/015	Aditya Sarma Path	7.1	0.602	0.50	180	87.5	0.14
6	PC/23/016	Aditya Sarma Path	7.4	0.734	0.60	300	82.0	0.17
7	PC/23/017	Pragjyotish Path	7.0	0.456	0.40	164	59.9	0.17
8	PC/23/018	Namghar Path	7.7	0.356	0.40	220	84.9	0.11
9	PC/23/019	Namghar Path	7.1	0.715	0.60	240	83.8	0.15
10	PC/23/020	Namghar Path	7.1	0.543	0.40	216	74.6	0.12

Sample Description: Drinking Water

Area: East of Bharalu River (Team C)

Sl No.	Sample ID	Sample Location	Results					
			pH	Conductivity ($\mu\text{S/cm}$)	TDS (mg/l)	Total Hardness (mg/l)	Chloride (mg/l)	Iron (mg/l)
1	PC/23/021	Bharalumukh Sluice Gate	6.8	0.194	0.10	92	11.2	0.12
2	PC/23/022	Bharalumukh Sluice Gate	7.8	0.278	0.20	124	13.8	0.12
3	PC/23/023	Arunudoy Path	7.8	0.218	0.20	128	12.0	0.14
4	PC/23/024	Bharalumukh Sluice Gate	7.6	0.306	0.20	144	18.4	0.16
5	PC/23/025	Bharalumukh Varda House	7.3	0.334	0.20	180	16.5	0.14
6	PC/23/026	Bharalumukh KRC Road	7.4	0.306	0.20	160	18.7	0.24
7	PC/23/027	Bharalumukh KRC Road	7.3	0.434	0.30	264	22.1	0.24
8	PC/23/028	Kumarpara	7.6	0.203	0.10	128	16.5	0.96
9	PC/23/029	KRB Road Chandra Bhawan	7.4	0.218	0.20	108	17.5	0.12
10	PC/23/030	Bharalumukh	7.4	0.278	0.20	230	18.4	0.19

Sample Description: Drinking Water**Area: West of Bharalu River (Team D)**

SI No.	Sample ID	Sample Location	Results						
			pH	Conductivity (µS/cm)	TDS (mg/l)	Total Hardness (mg/l)	Chloride (mg/l)	Iron (mg/l)	
1	PC/23/031	Bharalumukh Sluice Gate	7.3	0.409	0.3	260	16.6	0.201	
2	PC/23/032	Bharalumukh Sluice Gate	7.4	0.299	0.2	156	13.8	0.134	
3	PC/23/033	Bharalumukh Sluice Gate	7.6	0.193	0.1	112	9.2	0.112	
4	PC/23/034	Bharalumukh Sluice Gate	7.7	0.203	0.2	120	12.1	0.089	
5	PC/23/035	Bharalumukh Sluice Gate (JP Agarwala Road)	7.5	0.502	0.4	176	27.7	0.045	
6	PC/23/036	Bharalumukh Sluice Gate (JP Agarwala Road)	7.3	0.796	0.6	188	57.2	0.059	
7	PC/23/037	Bharalumukh Sluice Gate (JP Agarwala Road)	7.4	0.249	0.2	180	13.8	0.067	
8	PC/23/038	Bharalumukh Sluice Gate (JP Agarwala Road)	7.4	0.303	0.3	148	13.8	0.089	
9	PC/23/039	Bharalumukh Sluice Gate (JP Agarwala Road)	7.7	0.249	0.2	160	15.6	0.089	
10	PC/23/040	Bharalumukh Sluice Gate	7.4	0.253	0.2	148	15.6	0.067	

Sample Description: Drinking Water

Area: South of Bharalu River (Team E)

Sl No.	Sample ID	Sample Location	Results					
			pH	Conductivity ($\mu\text{S/cm}$)	TDS (mg/l)	Total Hardness (mg/l)	Chloride (mg/l)	Iron (mg/l)
1	PC/23/041	G. S. Colony	6.8	0.331	0.30	136	41.5	0.100
2	PC/23/042	G. S. Colony	7.1	0.615	0.50	240	59.9	0.011
3	PC/23/043	Kalyan Sarma Path	7.0	0.612	0.50	208	68.3	0.020
4	PC/23/044	Kalyan Sarma Path	7.5	0.524	0.40	200	50.7	0.089
5	PC/23/045	G. S. Colony	6.8	0.600	0.40	220	64.6	0.067
6	PC/23/046	Kalyan Sarma Path	7.5	0.471	0.30	180	59.9	0.245
7	PC/23/047	Bishnudev Goswami Path	6.8	0.540	0.50	180	68.3	0.268
8	PC/23/048	Bishnudev Goswami Path	7.0	0.421	0.30	180	41.5	0.112
9	PC/23/049	G. S. Colony	7.5	0.602	0.50	240	78.4	0.112
10	PC/23/050	Santipur Hillside	7.1	0.624	0.50	220	78.4	0.112



ABNS SCIENTIFIC SERVICES

এবিএনএচ সাইন্টিফিক সার্ভিসেস
एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

केतेकी पथ, रैडिसन ब्लू के पास, एन एच २७, गुवाहाटी ७८१०३३, असम

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

Report No. ABNS/EM/091523/003

Date - September 15th, 2023

Issued to : **Pragjyotish College**
Pragjyotish Path, Santipur,
Guwahati, Assam 781009

Ref. No. : ABNS/GHY/DW/062723/02
Sample Description : Drinking Water
Sample ID : PC/23/008 (Team A)
Sample Location : ABNS Scientific Services, Guwahati

Environmental Condition:

Temperature: 27.2 °c

Humidity: 73 %

Date of Sampling: 30.08.2023

Sampling done by: Mr. Nabajit Pathak (Sampler)

Sampling Protocol: IS 3025 (Part 1): 1987, Reaff. 1999

Analysis Start Date: 31.08.2023

Analysis End Date: 05.08.2023

ANALYSIS RESULT

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
A. General parameters Concerning Substances Undesirable in Excessive Amounts						
1	Fluoride as F	IS: 3025-(part60): 2008	mg/l	BDL	1 Max	1.5 Max
2	Iron as Fe	IS: 3025-(part53): 2003	mg/l	0.11	0.3 Max	No Relaxation
B. Parameters Concerning Toxic Substances						
3	Arsenic as As	IS: 3025-(part 37): 1988	mg/l	BDL	0.01 Max	No relaxation
4	Lead as Pb	IS: 3025-(part 47): 1994	mg/l	BDL	0.01 Max	No relaxation

- The test report shall not be reproduced, except in full, without written approval of the company
- Results relate only to the parameters tested.

.....End of Report.....

For ABNS Scientific Services

Report Verified by
Dr. Bidyut Jyoti Sarmah (TM)

[Signature]
15/09/2023



Authorized Signatory
Dr. Mayur Jyoti Mahanta (QM)

[Signature]
15/09/2023