

RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE - 25/02/2025)

TABLE 1- PUMPS

Parameters	Permissible Limit	Maximum Limit	P3	P7	P8	P11	P12	P13	P14	P15	P16
pH	6.5 to 8.5	No relaxation	8.11	7.98	7.91	8.05	8.15	7.89	8.12	8.20	8.26
TDS (mg/l)	500	2000	455	646	616	678	419	594	695	754	447
Hardness (as CaCO ₃) (mg/l)	200	600	100	120	130	140	100	120	130	150	100
Alkalinity(as CaCO ₃) (mg/l)	200	600	290	240	270	250	280	260	250	270	300
Nitrate (mg/l)	45	No relaxation	0.05	0.10	0.07	0.09	0.08	0.06	0.09	0.07	0.08
Sulfate (mg/l)	200	400	32.52	39.73	29.89	31.21	46.82	51.25	43.36	40.76	35.78
Fluoride (mg/l)	1	1.5	0.711	0.521	0.628	0.632	0.733	0.615	0.685	0.543	0.794
Chloride (mg/l)	250	1000	135	270	210	285	100	185	295	300	125
Turbidity (NTU)	5	10	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	0.05	0.002 0	0.0023	0.0019	0.0016	0.0022	0.0014	0.0015	0.0021	0.0019
Copper (mg/l)	0.05	1.5	0.001 1	0.0010	0.0016	0.0018	0.0010	0.0012	0.0015	0.0014	0.0016
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.000 6	0.0006	0.0007	0.0008	0.0006	0.0007	0.0008	0.0009	0.0007
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.16	0.19	0.16	0.18	0.15	0.14	0.16	0.17	0.15
Zinc (mg/l)	5	15	BDL	BDL	BDL	BDL	BDL	BDL	0.0016	BDL	BDL
Fecal Coliform (cfu)	0	0	0	0	0	0	0	0	0	0	0
E. Coli (cfu)	0	0	0	0	0	0	0	0	0	0	0

Sampling Locations:

*P3 - Behind Helicopter building,
P7 - Near water tank and main entrance of VH-Extension, type-1,
P8 - Near Health Centre,
P11 - Hall 10 back side,
P12 - Near about 150 M of P-2 (end of lane-36),
P13 - Near Visiting Faculty Apartment,
P14 - Near Hall 12,
P15 - Behind New Sac,
P16 - Near duplex type-3*

BDL Below Detection Limit; NTU – Nephelometric Turbidity Unit; cfu- Colony forming Units in 100 ml of the sample.

Detection Limits Pb 0.0001 mg/l, Cu 0.0001 mg/l , Cr 0.0005 mg/l ,Fe 0.0001 mg/l , Cd 0.0004 mg/l, As 0.0001 mg/l, Zn 0.0005 mg/l.

TABLE 2 - VARIOUS HOSTELS LOCATIONS

[illegible]

[illegible]

TABLE 3 - VARIOUS RESIDENTIAL LOCATIONS

Parameters	T1 (163)	T2 (223)	T3D (365)	T3F (320)	T4 (4081)	T5 (503)	T6 (624)	Multistory Building-A (104)	Multistory Building-B (402)	Multistory Building-C (303)	Multistory Building-D (503)
pH	8.05	8.21	8.34	8.17	8.26	8.29	8.33	8.07	8.03	8.02	8.01
TDS (mg/l)	660	447	426	447	424	705	424	719	716	719	721
Hardness (as CaCO ₃) (mg/l)	120	100	110	110	90	160	100	130	140	150	130
Alkalinity(as CaCO ₃) (mg/l)	260	280	290	300	280	270	300	240	250	280	270
Nitrate (mg/l)	0.14	0.10	0.19	0.09	0.20	0.22	0.13	0.09	0.08	0.09	0.10
Sulfate (mg/l)	38.21	33.47	24.15	39.26	33.26	41.05	26.21	46.94	47.48	53.57	47.68
Fluoride (mg/l)	0.522	0.695	0.728	0.698	0.713	0.588	0.659	0.583	0.596	0.591	0.595
Chloride (mg/l)	275	120	110	120	115	295	110	260	265	265	260
Turbidity (NTU)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001
Arsenic (mg/l)	0.0027	0.0024	0.0023	0.0021	0.0030	0.0013	0.0039	0.0015	0.0016	0.0021	0.0019
Copper (mg/l)	0.0014	0.0016	0.0013	0.0014	0.0016	0.0011	0.0014	0.0021	0.0019	0.0020	0.0019
Cadmium (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.1152	0.0957	0.1246	0.0921	0.1074	0.1263	0.1172	0.1264	0.1171	0.1284	0.1276
Zinc (mg/l)	0.0936	0.0554	0.0146	0.0422	0.0332	0.0341	0.0457	0.0276	0.0137	0.0445	0.0382
Fecal Coliform (cfu)	0	0	0	0	0	0	0	0	0	0	0
E. Coli (cfu)	0	0	0	0	0	0	0	0	0	0	0

Sampling locations: H1 to RA2 various hostels;
VH- Visitors Hostel;
HC- Health Centre;
T1 to T6 Residences with corresponding House Numbers.
Multistory Building A to D- New faculty buildings with corresponding House Numbers.

BDL Below Detection Limit; NTU - Nephelometric Turbidity Unit; cfu- Colony forming Units in 100 ml of the sample.
Detection Limits: Pb 0.0001 mg/l, Cu 0.0001 mg/l , Cr 0.0005 mg/l ,Fe 0.0001 mg/l , Cd 0.0004 mg/l, As 0.0001 mg/l, Zn 0.0005 mg/l.