

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE - 24/02/2026)**

TABLE 1- PUMPS

Parameters	Permissible Limit	Maximum Limit	P3	P7	P11	P12	P13	P14	P15	P16	P17	P18
pH	6.5 to 8.5	No relaxation	7.92	7.75	8.25	8.04	7.95	8.11	8.21	7.84	7.76	7.91
TDS (mg/l)	500	2000	421	627	625	408	620	601	721	438	589	532
Hardness (as CaCO ₃) (mg/l)	200	600	100	130	150	110	150	130	160	100	110	120
Alkalinity(as CaCO ₃) (mg/l)	200	600	290	230	250	300	240	270	250	290	250	290
Nitrate (mg/l)	45	No relaxation	0.09	0.12	0.08	0.07	0.09	0.06	0.08	0.07	0.09	0.10
Sulfate (mg/l)	200	400	33.68	42.43	35.98	43.57	51.05	60.63	58.15	44.11	57.15	28.36
Fluoride (mg/l)	1	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride (mg/l)	250	1000	120	270	280	100	275	195	340	135	245	175
Turbidity (NTU)	5	10	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	0.05	0.0014	0.0015	0.0017	0.0014	0.0012	0.0015	0.0020	0.0018	0.0014	0.0016
Copper (mg/l)	0.05	1.5	0.0002	0.0008	0.0009	0.0002	0.0007	BDL	0.0012	BDL	0.0005	BDL
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.06	0.05	0.11	0.04	0.12	0.12	0.10	0.02	0.11	0.03
Zinc (mg/l)	5	15	0.0053	0.0059	0.0042	0.0020	0.0012	0.0011	0.0074	0.0091	0.0064	0.0017
Fecal Coliform (cfu)	0	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	0

*Sampling Locations: P3 - Behind Helicopter building,
P7 - Near water tank and main entrance of VH-Extension, type-1
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,
P17 - Behind Central AC Plant
P18 - Near Bada Mandir, Type-1*

*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 3 - VARIOUS RESIDENTIAL LOCATIONS

Parameters	T1 (117)	T2 (223)	T3D (317)	T3F (365)	T4 (4085)	T5 (503)	T6 (614)	Multistory Building-A (104)	Multistory Building-B (403)	Multistory Building-C (103)	Multistory Building-D (303)
pH	7.72	7.74	7.91	7.99	7.82	7.71	7.80	7.82	7.89	7.88	7.88
TDS (mg/l)	633	440	439	441	409	602	408	670	667	673	668
Hardness (as CaCO3) (mg/l)	140	110	100	110	100	130	110	140	150	150	140
Alkalinity(as CaCO3) (mg/l)	270	290	290	300	300	270	310	280	280	270	280
Nitrate (mg/l)	0.12	0.11	0.19	0.09	0.18	0.13	0.12	0.10	0.09	0.10	0.09
Sulfate (mg/l)	25.89	44.52	37.57	49.68	34.84	44.10	29.73	46.21	44.94	41.26	44.84
Fluoride (mg/l)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride (mg/l)	265	125	130	120	100	190	105	270	275	280	270
Turbidity (NTU)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001
Arsenic (mg/l)	0.0023	0.0022	0.0048	0.0052	0.0019	0.0013	0.0025	0.0025	0.0023	0.0031	0.0017
Copper (mg/l)	0.0085	0.0143	0.0113	0.0104	0.0133	0.0053	0.0032	0.0008	0.0009	0.0011	0.0009
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)	0.1051	0.0462	0.0391	0.1094	0.0301	0.2011	0.0557	0.1458	0.4261	0.0955	0.1016
Zinc (mg/l)	0.0466	0.0147	0.0246	0.0904	0.0365	0.0531	0.0169	0.0731	0.0771	0.0237	0.0228
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: *HI 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.*