

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 30/10/2024)**

Parameters	Permissible Limit	Maximum Limit	P3	P7	P11	P12	P13	P14	P15	P16
pH	6.5 to 8.5	No relaxation	8.19	8.28	7.98	8.42	8.20	8.14	8.22	8.25
TDS (mg/l)	500	2000	471	645	679	422	609	685	748	446
Hardness (as CaCO ₃) (mg/l)	200	600	100	130	150	100	150	140	170	110
Alkalinity(as CaCO ₃) (mg/l)	200	600	300	260	270	310	290	260	250	300
Nitrate (mg/l)	45	No relaxation	0.08	0.07	0.09	0.06	0.07	0.09	0.07	0.06
Sulfate (mg/l)	200	400	32.45	48.37	39.86	29.72	43.68	41.38	49.55	36.74
Fluoride (mg/l)	1	1.5	0.695	0.724	0.651	0.822	0.638	0.674	0.739	0.756
Chloride (mg/l)	250	1000	130	260	285	100	185	290	310	120
Turbidity (NTU)	1	5	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0023	0.0021	0.0029	0.0031	0.0017	0.0019	0.0022	0.0019
Copper (mg/l)	0.05	1.5	0.0019	0.0021	0.0017	0.0018	0.0021	0.0022	0.0017	0.0025
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0011	0.0006	0.0009	0.0007	0.0010	0.0006	0.0008	0.0007
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	1.0	No relaxation	0.19	0.20	0.18	0.16	0.17	0.21	0.18	0.19
Zinc (mg/l)	5	15	BDL	0.0021	BDL	BDL	0.0018	0.0025	BDL	BDL
Fecal Coliform (cfu)	0	0	0	0	0	0	0	0	0	0
E. Coli (cfu)	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*

*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.*