

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 29/12/2023)**

Parameters	Permissible Limit	Maximum Limit	P3	P7	P11	P12	P13	P14	P16
pH	6.5 to 8.5	No relaxation	8.33	8.21	8.25	8.19	8.24	8.31	7.98
TDS (mg/l)	500	2000	465	631	672	419	674	581	424
Hardness (as CaCO ₃) (mg/l)	200	600	110	140	150	100	130	140	90
Alkalinity(as CaCO ₃) (mg/l)	200	600	310	280	270	290	260	290	280
Nitrate (mg/l)	45	No relaxation	0.08	0.07	0.10	0.06	0.07	0.08	0.06
Sulfate (mg/l)	200	400	32.45	39.36	42.10	38.21	46.63	48.52	36.52
Fluoride (mg/l)	1	1.5	0.792	0.658	0.637	0.846	0.685	0.593	0.812
Chloride (mg/l)	250	1000	135	260	285	110	185	280	110
Turbidity (NTU)	1	5	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0022	0.0023	0.0024	0.0031	0.0027	0.0023	0.0021
Copper (mg/l)	0.05	1.5	0.0025	0.0030	0.0031	0.0027	0.0026	0.0024	0.0019
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0012	0.0023	0.0015	0.0013	0.0012	0.0009	0.0020
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	1.0	No relaxation	0.15	0.20	0.16	0.21	0.18	0.17	0.16
Zinc (mg/l)	5	15	0.0023	BDL	BDL	0.0012	BDL	0.0043	BDL
Fecal Coliform (cfu)	0	0	0	0	0	0	0	0	0
E. Coli (cfu)	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,
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.