

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 24/11/2023)**

Parameters	Permissible Limit	Maximum Limit	P3	P7	P8	P11	P12	P13	P14	P16
pH	6.5 to 8.5	No relaxation	8.32	8.29	8.25	8.38	7.98	8.34	8.26	8.11
TDS (mg/l)	500	2000	459	631	772	668	423	568	661	419
Hardness (as CaCO ₃) (mg/l)	200	600	100	120	150	140	110	120	140	80
Alkalinity(as CaCO ₃) (mg/l)	200	600	290	270	310	260	280	260	290	280
Nitrate (mg/l)	45	No relaxation	0.06	0.09	0.08	0.06	0.07	0.05	0.07	0.08
Sulfate (mg/l)	200	400	35.84	40.76	45.48	32.26	38.55	49.77	33.65	37.12
Fluoride (mg/l)	1	1.5	0.787	0.623	0.568	0.675	0.821	0.729	0.615	0.769
Chloride (mg/l)	250	1000	130	250	300	275	105	180	270	105
Turbidity (NTU)	1	5	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0022	0.0020	0.0021	0.0017	0.0033	0.0028	0.0021	0.0022
Copper (mg/l)	0.05	1.5	0.0020	0.0009	0.0014	0.0011	0.0007	0.0018	0.0012	0.0015
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0011	0.0005	0.0010	0.0006	0.0008	0.0009	0.0007	0.0008
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	1.0	No relaxation	0.16	0.22	0.21	0.15	0.19	0.17	0.14	0.18
Zinc (mg/l)	5	15	0.0012	0.0011	BDL	BDL	BDL	BDL	0.0011	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
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,
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.*