

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 28/02/23)**

Parameters	Permissible Limit	Maximum Limit	P3	P7	P8	P11	P12	P13	P14	P16
pH	6.5 to 8.5	No relaxation	7.98	8.11	7.84	8.17	7.92	7.81	8.27	8.32
TDS (mg/l)	500	2000	449	575	746	638	405	530	633	412
Hardness (as CaCO ₃) (mg/l)	200	600	90	120	170	130	90	110	120	80
Alkalinity(as CaCO ₃) (mg/l)	200	600	350	290	310	290	350	320	290	310
Nitrate (mg/l)	45	No relaxation	0.09	0.07	0.08	0.12	0.06	0.08	0.09	0.07
Sulfate (mg/l)	200	400	38.98	51.72	45.27	38.62	39.81	25.64	42.39	32.25
Fluoride (mg/l)	1	1.5	0.998	0.750	0.641	0.717	0.994	0.917	0.746	0.987
Chloride (mg/l)	250	1000	135	245	300	290	95	195	285	105
Turbidity (NTU)	5	10	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	0.05	0.0025	0.0028	0.0034	0.0026	0.0037	0.0023	0.0025	0.0021
Copper (mg/l)	0.05	1.5	0.0010	0.0009	0.0019	0.0016	0.0013	0.0011	0.0010	0.0017
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0005	0.0010	0.0011	0.0012	0.0009	0.0006	0.0005	0.0006
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.15	0.19	0.14	0.20	0.15	0.16	0.18	0.12
Zinc (mg/l)	5	15	0.0016	0.0013	0.0012	0.0017	BDL	0.0006	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,
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.