

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 31/08/2023)**

Parameters	Permissible Limit	Maximum Limit	P3	P7	P8	P11	P12	P13	P14	P15	P16
pH	6.5 to 8.5	No relaxation	7.92	8.02	7.89	7.86	8.09	7.69	7.79	8.12	7.88
TDS (mg/l)	500	2000	459	593	762	645	583	564	648	695	416
Hardness (as CaCO ₃) (mg/l)	200	600	100	120	160	140	130	100	110	140	90
Alkalinity(as CaCO ₃) (mg/l)	200	600	290	270	320	300	280	260	250	270	310
Nitrate (mg/l)	45	No relaxation	0.06	0.08	0.09	0.06	0.05	0.06	0.08	0.06	0.07
Sulfate (mg/l)	200	400	35.58	31.88	49.87	42.51	34.63	46.09	33.29	38.89	28.75
Fluoride (mg/l)	1	1.5	0.824	0.636	0.542	0.675	0.721	0.695	0.645	0.610	0.864
Chloride (mg/l)	250	1000	135	265	310	285	240	170	290	305	105
Turbidity (NTU)	5	10	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	0.05	0.0026	0.0023	0.0020	0.0021	0.0018	0.0019	0.0015	0.0014	0.0012
Copper (mg/l)	0.05	1.5	0.0011	0.0008	0.0013	0.0012	0.0009	0.0016	0.0008	0.0012	0.0010
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.00010	0.0007	0.0009	0.0008	0.0006	0.0009	0.0011	0.0008	0.0007
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.13	0.17	0.20	0.15	0.14	0.16	0.17	0.19	0.14
Zinc (mg/l)	5	15	0.0045	BDL	0.0008	0.0006	BDL	BDL	BDL	BDL	0.0019
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: 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,
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.