

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 30/01/2023)**

Parameters	Permissible Limit	Maximum Limit	P3	P8	P11	P12	P13	P14	P15	P16
pH	6.5 to 8.5	No relaxation	7.65	7.71	7.81	7.88	7.85	7.90	7.93	8.11
TDS (mg/l)	500	2000	445	752	643	435	579	643	713	413
Hardness (as CaCO ₃) (mg/l)	200	600	100	160	120	90	100	110	150	80
Alkalinity(as CaCO ₃) (mg/l)	200	600	350	300	280	350	290	270	280	320
Nitrate (mg/l)	45	No relaxation	0.06	0.09	0.11	0.07	0.06	0.10	0.08	0.07
Sulfate (mg/l)	200	400	40.31	53.47	48.84	33.78	28.42	45.15	35.78	27.57
Fluoride (mg/l)	1	1.5	0.953	0.619	0.696	0.928	0.831	0.652	0.640	0.952
Chloride (mg/l)	250	1000	130	305	290	100	200	285	320	100
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	0.0023	0.0022	0.0024	0.0030	0.0021	0.0024	0.0021	0.0022
Copper (mg/l)	0.05	1.5	0.0020	0.0034	0.0032	0.0028	0.0033	0.0040	0.0047	0.0042
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0008	0.0010	0.0009	0.0014	0.0011	0.0010	0.0009	0.0011
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.12	0.15	0.21	0.11	0.18	0.14	0.19	0.14
Zinc (mg/l)	5	15	0.0014	0.0011	BDL	0.0035	0.0016	BDL	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,
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