

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 28/11/2024)**

Parameters	Permissible Limit	Maximum Limit	P3	P7	P11	P12	P14	P15	P16
pH	6.5 to 8.5	No relaxation	8.21	8.12	7.92	8.35	7.99	8.43	8.18
TDS (mg/l)	500	2000	467	652	669	421	687	733	441
Hardness (as CaCO ₃) (mg/l)	200	600	110	150	160	100	150	180	100
Alkalinity(as CaCO ₃) (mg/l)	200	600	280	270	260	300	260	250	290
Nitrate (mg/l)	45	No relaxation	0.06	0.09	0.07	0.08	0.07	0.06	0.08
Sulfate (mg/l)	200	400	38.67	51.42	29.53	35.66	49.74	42.63	31.95
Fluoride (mg/l)	1	1.5	0.689	0.645	0.601	0.774	0.638	0.695	0.745
Chloride (mg/l)	250	1000	135	265	280	105	285	305	115
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	0.0028	0.0032	0.0024	0.0019	0.0020	0.0026	0.0021
Copper (mg/l)	0.05	1.5	0.0021	0.0018	0.0019	0.0017	0.0025	0.0021	0.0019
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0009	0.0010	0.0008	0.0006	0.0007	0.0011	0.0008
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	1.0	No relaxation	0.16	0.22	0.19	0.17	0.19	0.20	0.18
Zinc (mg/l)	5	15	BDL	0.0028	0.0019	BDL	BDL	0.0024	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),
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.