

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 30/07/2024)**

Parameters	Permissible Limit	Maximum Limit	P3	P7	P8	P11	P12	P13	P14	P15	P16
pH	6.5 to 8.5	No relaxation	8.41	8.35	7.92	8.31	8.46	8.29	7.98	8.37	8.34
TDS (mg/l)	500	2000	468	653	749	676	421	668	589	735	441
Hardness (as CaCO ₃) (mg/l)	200	600	110	140	150	130	100	120	130	150	100
Alkalinity(as CaCO ₃) (mg/l)	200	600	310	260	250	240	300	240	250	260	310
Nitrate (mg/l)	45	No relaxation	0.09	0.07	0.10	0.06	0.08	0.06	0.08	0.07	0.06
Sulfate (mg/l)	200	400	34.84	37.89	40.42	49.73	31.89	28.52	46.82	34.94	28.85
Fluoride (mg/l)	1	1.5	0.769	0.683	0.622	0.632	0.875	0.630	0.751	0.627	0.834
Chloride (mg/l)	250	1000	135	265	245	295	105	280	195	310	125
Turbidity (NTU)	5	10	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	0.05	0.0024	0.0022	0.0021	0.0017	0.0031	0.0027	0.0024	0.0020	0.0021
Copper (mg/l)	0.05	1.5	0.0016	0.0026	0.0038	0.0016	0.0014	0.0021	0.0020	0.0031	0.0023
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0008	0.0006	0.0008	0.0009	0.0005	0.0007	0.0006	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	0.16	0.20	0.19	0.22	0.18	0.16	0.17	0.15	0.19
Zinc (mg/l)	5	15	BDL	0.0010	0.0013	BDL	BDL	BDL	BDL	BDL	BDL
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.