

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 23/04/2024)**

Parameters	Permissible Limit	Maximum Limit	P3	P7	P8	P11	P12	P13	P14	P15	P16
pH	6.5 to 8.5	No relaxation	8.11	7.95	7.81	7.98	8.05	8.13	7.82	7.76	8.19
TDS (mg/l)	500	2000	470	649	759	685	426	605	680	747	438
Hardness (as CaCO ₃) (mg/l)	200	600	100	130	180	140	100	120	130	150	100
Alkalinity(as CaCO ₃) (mg/l)	200	600	300	260	310	260	310	280	260	280	290
Nitrate (mg/l)	45	No relaxation	0.06	0.10	0.08	0.06	0.07	0.09	0.06	0.08	0.07
Sulfate (mg/l)	200	400	37.26	45.05	49.78	34.11	38.47	44.63	29.78	37.57	41.89
Fluoride (mg/l)	1	1.5	0.788	0.582	0.605	0.622	0.795	0.655	0.683	0.761	0.843
Chloride (mg/l)	250	1000	130	270	240	280	105	190	285	290	115
Turbidity (NTU)	1	5	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0024	0.0026	0.0030	0.0028	0.0030	0.0025	0.0030	0.0029	0.0023
Copper (mg/l)	0.05	1.5	0.0019	0.0020	0.0022	0.0019	0.0014	0.0018	0.0019	0.0022	0.0014
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0007	0.0011	0.0013	0.0012	0.0009	0.0011	0.0013	0.0012	0.0009
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	1.0	No relaxation	0.15	0.22	0.17	0.20	0.18	0.16	0.17	0.19	0.16
Zinc (mg/l)	5	15	0.0022	BDL	BDL	BDL	0.0016	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.