

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 22/11/22)**

Parameters	Permissible Limit	Maximum Limit	P3	P7	P8	P11	P12	P13	P14	P15	P16
pH	6.5 to 8.5	No relaxation	7.81	7.89	7.93	8.02	8.19	8.05	7.98	8.16	8.21
TDS (mg/l)	500	2000	409	629	725	635	401	553	642	688	408
Hardness (as CaCO ₃) (mg/l)	200	600	100	110	150	130	80	120	110	150	90
Alkalinity(as CaCO ₃) (mg/l)	200	600	340	280	300	290	350	310	290	270	300
Nitrate (mg/l)	45	No relaxation	0.06	0.05	0.07	0.10	0.09	0.07	0.06	0.11	0.05
Sulfate (mg/l)	200	400	30.63	53.36	59.97	41.89	37.05	58.63	33.78	55.21	43.57
Fluoride (mg/l)	1	1.5	0.944	0.646	0.541	0.649	0.913	0.816	0.635	0.621	0.914
Chloride (mg/l)	250	1000	115	280	300	285	95	200	285	315	100
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	0.0022	0.0021	0.0020	0.0021	0.0029	0.0020	0.0022	0.0020	0.0021
Copper (mg/l)	0.05	1.5	0.0023	0.0030	0.0034	0.0032	0.0026	0.0031	0.0036	0.0040	0.0028
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0013	0.0008	0.0006	0.0011	0.0014	0.0008	0.0008	0.0006	0.0009
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.11	0.21	0.16	0.19	0.14	0.18	0.16	0.20	0.15
Zinc (mg/l)	5	15	0.0009	BDL	BDL	BDL	0.0006	0.0031	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.