

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 27/10/22)**

Parameters	Permissible Limit	Maximum Limit	P1	P7	P8	P11	P12	P13	P14	P15	P16
pH	6.5 to 8.5	No relaxation	8.13	7.98	7.89	8.01	8.18	8.03	7.93	8.16	8.11
TDS (mg/l)	500	2000	426	629	755	632	397	558	649	705	412
Hardness (as CaCO ₃) (mg/l)	200	600	100	110	170	130	90	120	110	140	100
Alkalinity(as CaCO ₃) (mg/l)	200	600	320	280	300	290	310	320	280	290	310
Nitrate (mg/l)	45	No relaxation	0.13	0.06	0.07	0.11	0.08	0.07	0.08	0.10	0.06
Sulfate (mg/l)	200	400	31.89	51.42	54.94	46.42	26.21	48.31	39.47	44.52	32.31
Fluoride (mg/l)	1	1.5	0.973	0.691	0.635	0.889	0.994	0.887	0.662	0.562	0.962
Chloride (mg/l)	250	1000	135	285	300	280	90	210	290	325	100
Turbidity (NTU)	5	10	0.001	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	0.0017	0.0021	0.0016	0.0031	0.0022	0.0023	0.0020	0.0021
Copper (mg/l)	0.05	1.5	0.0008	0.0004	0.0018	0.0004	0.0001	0.0004	0.0003	0.0045	0.0003
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0018	0.0012	0.0010	0.0016	0.0014	0.0017	0.0012	0.0016	0.0011
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	0.21	0.18	0.15	0.17	0.14	0.16	0.19	0.14
Zinc (mg/l)	5	15	BDL	BDL	0.0054	BDL	0.0010	0.0045	0.0013	0.0023	0.0016
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: P1 - Opp. Type 2 shop-C near water tank,
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.