

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 25/01/19)**

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P7	P8	P11	P12
pH	6.5 to 8.5	No relaxation	7.72	7.52	7.41	7.29	7.39	7.37	7.81
TDS (mg/l)	500	2000	494	358	479	701	796	692	423
Hardness (as CaCO ₃) (mg/l)	300	600	140	170	100	130	150	140	100
Alkalinity (as CaCO ₃) (mg/l)	200	600	320	420	320	280	270	300	310
Nitrate (mg/l)	50	No relaxation	0.06	0.41	0.08	0.09	0.11	0.04	0.09
Sulfate (mg/l)	200	400	48	41	27	58	62	37	35
Fluoride (mg/l)	1	1.5	0.813	0.742	0.794	0.562	0.621	0.582	0.769
Chloride (mg/l)	250	1000	175	40	145	295	300	280	115
Turbidity (NTU)	5	10	0.001	0.001	0.002	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0003	0.0021	0.0005	0.0020	0.0015	0.0019	0.0008
Copper (mg/l)	0.05	1.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0033	0.0032	0.0037	0.0027	0.0024	0.0027	0.0031
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.16	0.14	0.18	0.12	0.26	0.19	0.16
Zinc (mg/l)	5	15	BDL	BDL	BDL	BDL	BDL	BDL	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: P1 – Opp. Type 2 shop-C near water tank, P2- End of lane 37 near house 4098, P3 – Behind Helicopter building, P4 – Behind SIS hostel/NCC, P7 - Near water tank and main entrance of VH-Extension , type-I, P-8 Near Health Centre, P-11 - Behind mess and inside of Hall-10, P-12 - Near about 150 M of P-2 (end of lane-36) .

*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*