

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 21/02/19)**

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P7	P8	P11	P12
pH	6.5 to 8.5	No relaxation	8.21	8.11	8.42	8.21	7.92	8.23	8.41
TDS (mg/l)	500	2000	501	379	479	696	803	694	411
Hardness (as CaCO ₃) (mg/l)	300	600	100	230	120	150	160	190	90
Alkalinity (as CaCO ₃) (mg/l)	200	600	330	490	320	260	270	290	280
Nitrate (mg/l)	50	No relaxation	0.05	0.40	0.06	0.09	0.17	0.10	0.03
Sulfate (mg/l)	200	400	57	41	36	68	62	58	64
Fluoride (mg/l)	1	1.5	0.795	0.712	0.814	0.572	0.592	0.589	0.780
Chloride (mg/l)	250	1000	145	40	145	285	295	290	110
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	0.0002	0.0015	0.0029	0.0019	0.0015	0.0021	0.0029
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	0.0039	0.0048	0.0058	0.0027	0.0036	0.0034	0.0037
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.12	0.15	0.12	0.16	0.28	0.20	0.14
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*