

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 27/12/18)**

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P7	P11	P12
pH	6.5 to 8.5	No relaxation	7.58	7.61	7.86	7.81	7.52	7.96
TDS (mg/l)	500	2000	485	379	480	678	716	423
Hardness (as CaCO ₃) (mg/l)	300	600	100	190	110	140	170	90
Alkalinity (as CaCO ₃) (mg/l)	200	600	320	420	350	300	310	340
Nitrate (mg/l)	50	No relaxation	0.07	0.42	0.06	0.11	0.06	0.09
Sulfate (mg/l)	200	400	48	51	49	50	57	29
Fluoride (mg/l)	1	1.5	0.752	0.769	0.794	0.577	0.612	0.779
Chloride (mg/l)	250	1000	140	50	145	275	295	100
Turbidity (NTU)	5	10	0.001	0.001	0.002	0.001	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0016	0.0020	0.0021	0.0015	0.0014	0.0024
Copper (mg/l)	0.05	1.5	BDL	BDL	BDL	BDL	BDL	BDL
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0028	0.0041	0.0042	0.0037	0.0032	0.0033
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.10	0.24	0.14	0.31	0.36	0.18
Zinc (mg/l)	5	15	BDL	BDL	BDL	BDL	BDL	BDL
Fecal Coliform (cfu)	0	0	0	0	0	0	0	0
E. Coli (cfu)	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-1, 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*