

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 29/06/18)**

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P7	P9	P11	P12
pH	6.5 to 8.5	No relaxation	7.42	7.23	8.29	7.42	7.01	7.31	7.63
TDS (mg/l)	500	2000	499	376	457	672	448	678	413
Hardness (as CaCO ₃) (mg/l)	300	600	90	200	100	120	290	160	100
Alkalinity (as CaCO ₃) (mg/l)	200	600	320	420	270	260	420	270	290
Nitrate (mg/l)	50	No relaxation	0.32	0.19	0.06	0.07	0.09	0.06	0.11
Sulfate (mg/l)	200	400	29	38	36	52	38	43	39
Fluoride (mg/l)	1	1.5	0.831	0.866	0.807	0.592	1.13	0.628	0.742
Chloride (mg/l)	250	1000	155	35	135	290	175	280	110
Turbidity (NTU)	5	10	0.001	0.001	0.002	0.001	0.002	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0012	0.0008	0.0014	0.0020	0.0015	0.0010	0.0009
Copper (mg/l)	0.05	1.5	0.0063	0.0030	0.0044	0.0086	0.0092	0.0065	0.0035
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0005	0.0009	0.0010	0.0010	0.0009	0.0006	0.0005
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.052	0.048	0.110	0.115	0.208	0.088	0.055
Zinc (mg/l)	5	15	0.0035	0.0040	0.0018	0.0022	0.0036	0.0028	0.0125
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-9 Near front parking area of Hall-9, 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*