

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 23/05/18)**

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P7	P8	P9	P11	P12
pH	6.5 to 8.5	No relaxation	8.12	8.47	8.42	7.96	7.99	8.35	8.11	8.35
TDS (mg/l)	500	2000	474	332	453	645	751	593	659	397
Hardness (as CaCO ₃) (mg/l)	300	600	50	150	70	110	130	190	60	110
Alkalinity (as CaCO ₃) (mg/l)	200	600	300	360	290	220	210	250	230	280
Nitrate (mg/l)	50	No relaxation	0.25	0.21	0.06	0.09	0.10	0.08	0.06	0.10
Sulfate (mg/l)	200	400	52	40	36	54	58	43	48	33
Fluoride (mg/l)	1	1.5	0.758	0.771	0.790	0.577	0.512	0.852	0.631	0.771
Chloride (mg/l)	250	1000	165	20	150	320	325	240	295	105
Turbidity (NTU)	5	10	0.001	0.001	0.002	0.001	0.001	0.002	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0014	0.0011	0.0016	0.0023	0.0026	0.0009	0.0018	0.0025
Copper (mg/l)	0.05	1.5	0.0083	0.0038	0.0076	0.0080	0.0084	0.0069	0.0081	0.0051
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0011	0.0012	0.0009	0.0007	0.0010	0.0010	0.0005	0.0010
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.058	0.035	0.068	0.099	0.120	0.202	0.068	0.042
Zinc (mg/l)	5	15	0.0058	0.0055	0.0034	0.0033	0.0048	0.0020	0.0020	0.0090
Fecal Coliform (cfu)	0	0	0	0	0	0	0	0	0	0
E. Coli (cfu)	0	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-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*

