

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 27/09/17)**

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P4	P7	P8	P9	P11	P12
pH	6.5 to 8.5	No relaxation	7.73	7.38	7.66	7.78	7.65	7.62	7.33	7.64	7.81
TDS (mg/l)	500	2000	475	360	449	515	645	741	621	662	403
Hardness (as CaCO ₃) (mg/l)	300	600	100	200	100	130	140	160	290	150	120
Alkalinity (as CaCO ₃) (mg/l)	200	600	280	370	270	290	320	290	380	230	330
Nitrate (mg/l)	50	No relaxation	0.07	0.13	0.06	0.08	0.02	0.01	0.37	0.17	0.05
Sulfate (mg/l)	200	400	43.1	34.9	50.9	48.0	42.1	75.5	35.8	48.4	36.8
Fluoride (mg/l)	1	1.5	0.814	0.830	0.811	0.759	0.695	0.636	0.945	0.651	0.850
Chloride (mg/l)	250	1000	170	30	140	170	215	285	205	275	115
Turbidity (NTU)	5	10	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0010	0.0014	0.0021	0.0019	0.0017	0.0017	0.0015	0.0016	0.0020
Copper (mg/l)	0.05	1.5	0.0020	0.0012	0.0003	0.0001	0.0002	0.0005	0.0003	0.00010	BDL
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0065	0.0010	0.0049	0.0050	0.0053	0.0061	0.0050	0.0035	0.0052
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.113	0.108	0.117	0.125	0.091	0.131	0.181	0.152	0.126
Zinc (mg/l)	5	15	0.0312	0.0286	0.0041	0.0099	0.0112	0.0026	0.0165	0.0051	0.0036
Fecal Coliform (cfu)	0	0	0	0	0	0	0	0	0	0	0
E. Coli (cfu)	0	0	0	0	0	0	0	0	0	0	0

*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*

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-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 Mtr. of P-2 (end of lane-36) at same lane