

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 17/03/16)**

Parameters	Desirable Limit	Maximum Limit	P1	P2	P3	P4	P7	P8	P9	P10	P11	P12
pH	6.5 to 8.5	No relaxation	7.5	7.9	7.8	7.4	7.8	7.6	7.4	7.5	7.2	7.7
TDS (mg/l)	500	2000	362	469	446	652	643	750	608	700	680	385
Hardness (as CaCO ₃) (mg/l)	300	600	140	190	170	400	140	200	310	530	120	100
Alkalinity (as CaCO ₃) (mg/l)	200	600	460	190	330	400	290	300	180	210	300	350
Nitrate (mg/l)	50	No relaxation	0.48	0.052	0.026	0.47	0.088	0.085	0.25	0.019	0.006	0.032
Sulfate (mg/l)	200	400	44.5	28.8	30.6	68.6	57	68.1	46.6	76.5	47.4	44.5
Fluoride (mg/l)	1	1.5	0.92	0.713	0.876	0.976	0.893	0.943	0.785	0.854	0.858	0.943
Chloride (mg/l)	250	1000	150	250	150	240	300	320	190	340	325	100
Turbidity (NTU)	5	10	0.001	0.001	0.002	0.001	0.001	0.001	0.00	0.001	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0012	0.0019	0.0021	0.0015	0.0018	0.0020	0.001	0.0010	0.0015	0.0030
Copper (mg/l)	0.05	1.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cadmium (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0061	0.0030	0.0031	0.0041	0.0036	0.0031	0.005	0.0043	0.0034	0.0039
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	1	0.22	0.26	0.23	0.173	0.165	0.123	0.27	0.148	0.134	0.173
Zinc (mg/l)	5	15	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fecal Coliform (cfu)	0	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	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-8 Near Health Centre, P-9 Near front parking area of Hall-9, P-10- Near water tank at right side of Hall-3, 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.

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