

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 28/10/16)**

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P4	P7	P8	P9	P10	P11	P12
pH	6.5 to 8.5	No relaxation	7.9	7.7	7.3	7.8	7.7	7.5	7.7	7.5	7.4	8.0
TDS (mg/l)	500	2000	447	388	393	385	449	385	450	446	385	385
Hardness (as CaCO₃) (mg/l)	300	600	110	100	90	90	100	90	100	110	90	100
Alkalinity (as CaCO₃) (mg/l)	200	600	250	210	230	200	210	210	200	220	190	200
Nitrate (mg/l)	50	No relaxation	0.12	0.06	0.08	0.03	0.05	0.03	0.13	0.06	0.06	0.06
Sulfate (mg/l)	200	400	30	32	33	42	42	43	37	45	46	41
Fluoride (mg/l)	1	1.5	0.758	0.704	0.715	0.684	0.668	0.670	0.665	0.641	0.646	0.636
Chloride (mg/l)	250	1000	140	105	100	150	230	120	200	235	100	110
Turbidity (NTU)	5	10	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.002	0.0025	0.0024	0.0024	0.0018	0.002	0.0019	0.0020	0.0021	0.0022
Copper (mg/l)	0.05	1.5	BDL	BDL	BDL	0.0014	BDL	BDL	BDL	BDL	BDL	BDL
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.003	0.0034	0.0094	0.0041	0.0038	0.004	0.0049	0.0077	0.0034	0.0038
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.11	0.161	0.143	0.125	0.18	0.10	0.13	0.110	0.121	0.119
Zinc (mg/l)	5	15	BDL	BDL	BDL	BDL	BDL	BDL	0.0038	BDL	0.0015	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

**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-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