

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 29/11/16)**

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	8.2	8.3	8.2	8.2	7.8	8.0	8.3	8.0	8.2
TDS (mg/l)	500	2000	472	356	443	492	646	741	682	600	687	389
Hardness (as CaCO ₃) (mg/l)	300	600	150	200	80	120	130	170	200	250	170	80
Alkalinity (as CaCO ₃) (mg/l)	200	600	330	400	290	260	250	250	350	400	250	300
Nitrate (mg/l)	50	No relaxation	0.05	0.37	0.02	0.06	0.03	0.04	0.05	0.50	0.07	0.05
Sulfate (mg/l)	200	400	30	29	36	45	52	72	48	58	60	54
Fluoride (mg/l)	1	1.5	0.879	0.877	0.917	0.677	0.682	0.574	0.928	0.849	0.640	0.728
Chloride (mg/l)	250	1000	175	50	125	170	275	320	275	175	290	105
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	0.0023	0.0015	0.0022	0.0017	0.0019	0.0020	0.001	0.0004	0.0014	0.0024
Copper (mg/l)	0.05	1.5	BDL	BDL	BDL	BDL	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	BDL	BDL	0.0007	BDL	0.0001	0.0020	BDL	BDL	BDL	BDL
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	1	0.11	0.13	0.17	0.12	0.18	0.11	0.19	0.13	0.17	0.16
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

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

