

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 20/07/17)**

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P4	P7	P8	P9	P11	P12
pH	6.5 to 8.5	No relaxation	8.40	7.80	8.33	8.14	7.69	8.44	7.82	8.04	8.19
TDS (mg/l)	500	2000	460	360	452	509	660	745	594	667	428
Hardness(as CaCO ₃) (mg/l)	300	600	100	130	160	130	140	190	270	220	130
Alkalinity (as CaCO ₃) (mg/l)	200	600	300	430	330	300	260	290	420	260	300
Nitrate (mg/l)	50	No relaxation	0.06	0.52	0.07	0.06	0.05	0.09	0.38	0.06	0.04
Sulfate (mg/l)	200	400	40	50	41	38	44	72	54	60	35
Fluoride (mg/l)	1	1.5	0.665	0.719	0.702	0.653	0.514	0.474	0.979	0.526	0.793
Chloride (mg/l)	250	1000	180	45	130	180	290	295	170	285	120
Turbidity (NTU)	5	10	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0023	0.0017	0.0023	0.0016	0.0017	0.0018	0.001	0.0019	0.0024
Copper (mg/l)	0.05	1.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cadmium (mg/l)	0.003	No relaxation	BDL	0.0001	BDL	BDL	BDL	BDL	0.00003	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0022	0.0017	0.0021	0.0005	0.0010	0.0006	0.00164	0.0009	0.0014
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.11	0.16	0.17	0.13	0.12	0.11	0.19	0.16	0.13
Zinc (mg/l)	5	15	BDL	BDL	BDL	BDL	0.0048	BDL	BDL	BDL	0.0041
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 M of P-2 (end of lane-36) .