

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 23/03/18)**

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P7	P8	P9	P11	P12
pH	6.5 to 8.5	No relaxation	8.00	8.14	7.89	8.01	7.86	7.49	7.86	8.09
TDS (mg/l)	500	2000	477	338	452	636	742	601	667	409
Hardness (as CaCO ₃) (mg/l)	300	600	150	200	100	150	180	340	170	100
Alkalinity (as CaCO ₃) (mg/l)	200	600	330	400	320	280	260	400	300	330
Nitrate (mg/l)	50	No relaxation	0.05	0.38	0.07	0.06	0.21	0.28	0.07	0.08
Sulfate (mg/l)	200	400	59.5	25.2	56.0	71.1	69.6	66.3	56.1	51.7
Fluoride (mg/l)	1	1.5	0.763	0.783	0.752	0.683	0.499	1.09	0.610	0.759
Chloride (mg/l)	250	1000	185	40	125	275	305	205	290	115
Turbidity (NTU)	5	10	0.001	0.001	0.002	0.001	0.001	0.002	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0014	0.0018	0.0016	0.0022	0.0018	0.0009	0.0015	0.0011
Copper (mg/l)	0.05	1.5	0.0083	0.0038	0.0046	0.0076	0.0084	0.0062	0.0085	0.0055
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0009	0.0012	0.0011	0.0012	0.0007	0.0011	0.0005	0.0007
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.055	0.049	0.110	0.112	0.128	0.206	0.098	0.075
Zinc (mg/l)	5	15	0.0033	0.0042	0.0014	0.0026	0.0047	0.0033	0.0025	0.0120
Fecal Coliform (cfu)	0	0	0	0	0	0	0	0	0	0
E. Coli (cfu)	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-I, 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) .

*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*