

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 24/04/18)**

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P7	P8	P9	P11	P12
pH	6.5 to 8.5	No relaxation	8.19	8.16	8.42	7.96	7.84	7.62	8.09	8.17
TDS (mg/l)	500	2000	486	352	464	651	770	654	661	401
Hardness (as CaCO ₃) (mg/l)	300	600	100	160	80	110	150	290	110	100
Alkalinity (as CaCO ₃) (mg/l)	200	600	330	240	390	230	250	300	360	280
Nitrate (mg/l)	50	No relaxation	0.17	0.27	0.03	0.07	0.11	0.11	0.06	0.07
Sulfate (mg/l)	200	400	55	56	22	52	62	45	31	29
Fluoride (mg/l)	1	1.5	0.812	0.823	0.798	0.658	0.592	1.12	0.703	0.832
Chloride (mg/l)	250	1000	160	40	140	270	330	220	285	105
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	0.0024	0.0011	0.0026	0.0023	0.0016	0.0010	0.0017	0.0031
Copper (mg/l)	0.05	1.5	0.0093	0.0048	0.0066	0.0083	0.0094	0.0069	0.0088	0.0065
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0013	0.0018	0.0010	0.0007	0.0009	0.0018	0.0006	0.0008
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.048	0.029	0.059	0.095	0.130	0.210	0.070	0.050
Zinc (mg/l)	5	15	0.0047	0.0052	0.0024	0.0028	0.005	0.0023	0.002	0.010
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*