

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 28/08/18)**

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P7	P8	P9	P11	P12
pH	6.5 to 8.5	No relaxation	7.89	7.35	7.62	7.46	7.84	7.21	7.75	7.63
TDS (mg/l)	500	2000	474	376	474	672	760	548	671	411
Hardness (as CaCO ₃) (mg/l)	300	600	90	190	100	120	150	290	140	90
Alkalinity (as CaCO ₃) (mg/l)	200	600	320	280	360	260	280	320	260	280
Nitrate (mg/l)	50	No relaxation	0.12	0.37	0.06	0.05	0.11	0.12	0.03	0.05
Sulfate (mg/l)	200	400	55	58	24	37	71	52	36	29
Fluoride (mg/l)	1	1.5	0.754	0.764	0.790	0.579	0.511	1.19	0.631	0.744
Chloride (mg/l)	250	1000	165	35	150	330	325	240	275	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	0.0022	0.0014	0.0023	0.0021	0.0011	0.0017	0.0014	0.0021
Copper (mg/l)	0.05	1.5	0.0093	0.0044	0.0076	0.0063	0.0092	0.0059	0.0078	0.0075
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0014	0.0017	0.001	0.0008	0.0007	0.0016	0.0009	0.0008
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.09	0.03	0.06	0.08	0.15	0.22	0.07	0.10
Zinc (mg/l)	5	15	0.0043	0.0062	0.0021	0.0028	0.008	0.0013	0.0029	0.011
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*