

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 27/09/18)**

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P7	P8	P9	P11	P12
pH	6.5 to 8.5	No relaxation	7.37	7.22	7.48	7.33	7.23	7.28	7.32	7.66
TDS (mg/l)	500	2000	491	378	469	682	783	676	693	414
Hardness (as CaCO ₃) (mg/l)	300	600	110	160	90	120	130	140	120	80
Alkalinity (as CaCO ₃) (mg/l)	200	600	320	400	290	240	260	250	230	300
Nitrate (mg/l)	50	No relaxation	0.19	0.24	0.06	0.03	0.10	0.12	0.08	0.06
Sulfate (mg/l)	200	400	31	25	33	39	69	40	43	52
Fluoride (mg/l)	1	1.5	0.784	0.820	0.817	0.616	0.568	0.984	0.602	0.761
Chloride (mg/l)	250	1000	175	35	150	290	310	265	290	100
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	0.0023	0.0014	0.0023	0.0017	0.0016	0.0018	0.0019	0.0020
Copper (mg/l)	0.05	1.5	BDL	BDL	BDL	BDL	BDL	BDL	0.0005	0.0079
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0035	0.0059	0.0041	0.0033	0.0031	0.0034	0.0035	0.0042
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.10	0.13	0.08	0.15	0.22	0.16	0.17	0.11
Zinc (mg/l)	5	15	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
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-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) .

*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*