

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 24/1/18)**

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P4	P7	P8	P9	P11	P12
pH	6.5 to 8.5	No relaxation	7.81	7.66	7.83	7.92	7.74	7.79	7.41	7.75	7.98
TDS (mg/l)	500	2000	472	363	448	481	645	758	624	651	402
Hardness (as CaCO ₃) (mg/l)	300	600	90	190	100	120	140	110	380	130	100
Alkalinity (as CaCO ₃) (mg/l)	200	600	320	460	310	310	300	240	460	260	320
Nitrate (mg/l)	50	No relaxation	0.08	0.48	0.06	0.07	0.06	0.10	0.23	0.07	0.09
Sulfate (mg/l)	200	400	49.0	23.3	37.6	44.2	35.3	63.4	45.1	39.4	25.6
Fluoride (mg/l)	1	1.5	0.869	0.955	0.880	0.827	0.784	0.608	1.27	0.626	0.874
Chloride (mg/l)	250	1000	175	35	135	170	270	325	180	265	135
Turbidity (NTU)	5	10	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0018	0.0012	0.0019	0.0020	0.0010	0.0017	0.0012	0.0016	0.0025
Copper (mg/l)	0.05	1.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0021	0.0014	0.0012	0.0021	0.0029	0.0046	0.0038	0.0033	0.0022
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.13	0.16	0.19	0.22	0.15	0.17	0.21	0.15	0.14
Zinc (mg/l)	5	15	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
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

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*