

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 27/11/18)**

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P7	P8	P11	P12
pH	6.5 to 8.5	No relaxation	7.43	7.17	7.44	7.39	7.29	7.37	7.58
TDS (mg/l)	500	2000	495	372	470	675	788	690	416
Hardness (as CaCO ₃) (mg/l)	300	600	100	180	100	120	190	140	90
Alkalinity (as CaCO ₃) (mg/l)	200	600	320	440	310	270	280	260	320
Nitrate (mg/l)	50	No relaxation	0.04	0.37	0.06	0.09	0.12	0.01	0.10
Sulfate (mg/l)	200	400	54	41	37	56	64	48	38
Fluoride (mg/l)	1	1.5	0.772	0.783	0.803	0.577	0.628	0.598	0.761
Chloride (mg/l)	250	1000	145	40	140	275	310	290	110
Turbidity (NTU)	5	10	0.001	0.001	0.002	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0018	0.0021	0.0018	0.0021	0.0019	0.0023	0.0016
Copper (mg/l)	0.05	1.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0028	0.0032	0.0042	0.0030	0.0025	0.0038	0.0033
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.09	0.11	0.10	0.12	0.21	0.26	0.10
Zinc (mg/l)	5	15	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fecal Coliform (cfu)	0	0	0	0	0	0	0	0	0
E. Coli (cfu)	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-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*