

RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 21/2/18)

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P4	P7	P8	P9	P11	P12
pH	6.5 to 8.5	No relaxation	7.83	7.72	7.83	8.19	7.79	7.82	7.51	7.78	7.77
TDS (mg/l)	500	2000	476	367	455	578	581	767	636	675	437
Hardness (as CaCO ₃) (mg/l)	300	600	140	170	100	140	130	160	300	140	120
Alkalinity (as CaCO ₃) (mg/l)	200	600	340	410	330	270	300	230	450	260	310
Nitrate (mg/l)	50	No relaxation	0.06	0.42	0.08	0.07	0.05	0.19	0.25	0.06	0.09
Sulfate (mg/l)	200	400	42.5	23.4	52.7	49.4	48.5	63.8	44.4	52.5	41.8
Fluoride (mg/l)	1	1.5	0.758	0.764	0.782	0.750	0.698	0.522	1.05	0.604	0.779
Chloride (mg/l)	250	1000	150	35	125	230	235	295	195	285	120
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	0.0014	0.0011	0.0017	0.0019	0.0015	0.0016	0.0014	0.0018	0.0022
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	0.0011	0.0014	0.0010	0.0018	0.0022	0.0036	0.0028	0.0023	0.0012
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.12	0.14	0.17	0.20	0.16	0.15	0.20	0.14	0.13
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