

RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 28/12/16)

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P4	P7	P8	P9	P10	P11	P12
pH	6.5 to 8.5	No relaxation	7.8	7.5	7.9	7.9	7.8	7.6	7.6	7.7	8.1	7.8
TDS (mg/l)	500	2000	463	357	442	498	639	737	600	651	382	463
Hardness (as CaCO ₃) (mg/l)	300	600	140	210	100	150	160	190	220	120	110	140
Alkalinity (as CaCO ₃) (mg/l)	200	600	350	400	300	350	250	250	350	250	300	350
Nitrate (mg/l)	50	No relaxation	0.08	0.40	0.09	0.08	0.07	0.04	0.12	0.06	0.07	0.08
Sulfate (mg/l)	200	400	31	34	40	33	41	60	57	48	38	31
Fluoride (mg/l)	1	1.5	0.739	0.755	0.707	0.664	0.466	0.435	0.849	0.564	0.629	0.739
Chloride (mg/l)	250	1000	150	50	125	175	275	275	225	275	100	150
Turbidity (NTU)	5	10	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0023	0.0017	0.0023	0.0017	0.0018	0.0018	0.0008	0.0019	0.0024	0.0023
Copper (mg/l)	0.05	1.5	BDL	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	BDL
Chromium (mg/l)	0.05	No relaxation	0.0031	0.0049	0.0035	0.0031	0.0034	0.0026	0.0037	0.0029	0.0027	0.0031
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.11	0.23	0.23	0.16	0.17	0.14	0.21	0.13	0.14	0.16
Zinc (mg/l)	5	15	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fecal Coliform (cfu)	0	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	0

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

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-10- Near water tank at right side of Hall-3, P-11 - Behind mess and inside of Hall-10, P-12 - Near about 150 Mtr. of P-2 (end of lane-36) at same lane

