

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE  
(SAMPLING DATE 23/11/17)**

<b>Parameters</b>	<b>Permissible Limit</b>	<b>Maximum Limit</b>	<b>P1</b>	<b>P2</b>	<b>P3</b>	<b>P4</b>	<b>P7</b>	<b>P8</b>	<b>P9</b>	<b>P11</b>	<b>P12</b>
pH	6.5 to 8.5	No relaxation	7.98	7.54	7.88	7.91	7.84	7.73	7.43	7.79	7.90
TDS (mg/l)	500	2000	556	382	479	511	674	788	703	679	459
Hardness (as CaCO <sub>3</sub> ) (mg/l)	300	600	100	190	120	110	160	150	280	150	100
Alkalinity (as CaCO <sub>3</sub> ) (mg/l)	200	600	300	380	310	270	250	220	340	260	310
Nitrate (mg/l)	50	No relaxation	0.06	0.48	0.07	0.05	0.03	0.04	0.32	0.13	0.05
Sulfate (mg/l)	200	400	44.7	34.7	49.8	46.1	44.1	75.8	31.2	47.3	37.0
Fluoride (mg/l)	1	1.5	0.839	0.881	0.899	0.846	0.695	0.570	1.17	0.752	0.850
Chloride (mg/l)	250	1000	200	55	145	175	290	305	240	295	125
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	0.0013	0.0008	0.0021	0.0013	0.0010	0.0012	0.0008	0.0012	0.0013
Copper (mg/l)	0.05	1.5	BDL	BDL	0.0021	BDL	BDL	BDL	BDL	BDL	0.0013
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0025	0.0009	0.0067	0.0017	0.0022	0.0036	0.0022	0.0025	0.0016
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	0.11	0.11	0.18	0.10	0.13	0.16	0.15	0.11
Zinc (mg/l)	5	15	BDL	BDL	0.0209	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*