

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE  
(SAMPLING DATE 25/10/18)**

<b>Parameters</b>	<b>Permissible Limit</b>	<b>Maximum Limit</b>	<b>P1</b>	<b>P2</b>	<b>P3</b>	<b>P7</b>	<b>P8</b>	<b>P9</b>	<b>P11</b>	<b>P12</b>
pH	6.5 to 8.5	No relaxation	7.32	7.16	7.41	7.29	7.22	7.42	7.62	7.32
TDS (mg/l)	500	2000	490	376	468	661	782	692	412	490
Hardness (as CaCO <sub>3</sub> ) (mg/l)	300	600	100	170	90	160	170	150	80	100
Alkalinity (as CaCO <sub>3</sub> ) (mg/l)	200	600	270	390	290	270	260	250	280	270
Nitrate (mg/l)	50	No relaxation	0.06	0.47	0.07	0.10	0.12	0.08	0.12	0.06
Sulfate (mg/l)	200	400	77	52	22	62	69	57	43	77
Fluoride (mg/l)	1	1.5	0.877	0.842	0.748	0.583	0.636	0.650	0.728	0.877
Chloride (mg/l)	250	1000	160	40	135	270	305	290	105	160
Turbidity (NTU)	5	10	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0022	0.0015	0.0019	0.0021	0.0015	0.0020	0.0019	0.0022
Copper (mg/l)	0.05	1.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0030	0.0038	0.0042	0.0033	0.0029	0.0041	0.0035	0.0030
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.10	0.16	0.09	0.16	0.23	0.26	0.11	0.10
Zinc (mg/l)	5	15	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fecal Coliform (cfu)	0	0	0	0	0	0	0	0	0	0
E. Coli (cfu)	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*