

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 30/06/16)**

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	7.6	7.8	7.6	7.8	7.6	7.4	7.6	7.8	7.9
TDS (mg/l)	500	2000	470	364	461	699	649	550	428	637	675	386
Hardness (as CaCO ₃) (mg/l)	300	600	100	180	100	310	150	150	230	260	150	100
Alkalinity (as CaCO ₃) (mg/l)	200	600	300	400	300	250	250	280	460	410	250	350
Nitrate (mg/l)	50	No relaxation	0.07	0.13	0.03	0.08	0.02	0.01	0.37	0.73	0.17	0.05
Sulfate (mg/l)	200	400	54	43	41	55	67	72	62	61	38	53
Fluoride (mg/l)	1	1.5	0.892	0.917	0.881	0.680	0.691	0.570	0.936	0.850	0.640	0.726
Chloride (mg/l)	250	1000	100	50	125	450	275	250	50	100	275	85
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	0.0022	0.0013	0.0019	0.0013	0.0014	0.0013	0.0010	0.0008	0.0014	0.0023
Copper (mg/l)	0.05	1.5	BDL	BDL	BDL	0.0061	0.0054	BDL	BDL	0.0002	0.0003	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	0.0009	0.0006	0.0008	0.0014	0.0015	0.0023	0.0012	0.0022	0.0014	0.0008
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	1	0.11	0.12	0.23	0.19	0.21	0.17	0.16	0.19	0.23	0.154
Zinc (mg/l)	5	15	0.0061	0.0822	0.0206	0.0020	0.0538	0.0181	0.0106	0.0509	0.0103	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

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.

***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***

