

RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 11/05/16)

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P4	P7	P8	P9	P10	P11	P12
pH	6.5 to 8.5	No relaxation	7.93	7.41	7.50	7.73	7.62	7.20	7.26	7.70	7.23	7.78
TDS (mg/l)	500	2000	352	440	412	615	602	704	632	704	631	404
Hardness (as CaCO ₃) (mg/l)	300	600	140	190	100	290	120	270	240	150	240	170
Alkalinity (as CaCO ₃) (mg/l)	200	600	340	470	360	320	280	390	290	280	390	340
Nitrate (mg/l)	50	No relaxation	0.05	0.40	0.04	0.04	0.06	0.27	0.15	0.06	0.31	0.03
Sulfate (mg/l)	200	400	43	40	38	54	58	44	42	50	55	47
Fluoride (mg/l)	1	1.5	0.867	0.939	0.884	0.909	0.669	0.746	0.942	0.675	0.745	0.828
Chloride (mg/l)	250	1000	155	150	130	150	325	100	150	310	115	100
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	0.0017	0.0011	0.0018	0.0017	0.0013	0.0008	0.000	0.0011	0.0049	0.0020
Copper (mg/l)	0.05	1.5	0.0031	0.001	0.0004	0.0001	0.0001	0.0005	0.004	0.0001	BDL	BDL
Cadmium (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0065	0.0011	0.0077	0.0072	0.0062	0.0010	0.001	0.0064	0.0010	0.0069
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	1	0.12	0.17	0.16	0.19	0.21	0.22	0.19	0.18	0.13	0.14
Zinc (mg/l)	5	15	0.0045	0.0015	0.0037	0.0092	0.0043	0.0024	0.008	BDL	0.0022	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

