

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 29/09/16)**

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P4	P7	P8	P9	P10	P11	P12
pH	6.5 to 8.5	No relaxation	7.7	7.3	7.7	7.6	7.6	7.5	7.5	7.5	7.6	7.9
TDS (mg/l)	500	2000	470	364	447	646	647	644	655	632	670	390
Hardness (as CaCO ₃) (mg/l)	300	600	100	180	100	140	140	140	170	180	100	120
Alkalinity (as CaCO ₃) (mg/l)	200	600	280	230	210	270	240	210	250	300	320	300
Nitrate (mg/l)	50	No relaxation	0.06	0.14	0.05	0.03	0.05	0.02	0.05	0.06	0.06	0.03
Sulfate (mg/l)	200	400	46	43	37	44	45	71	47	51	32	35
Fluoride (mg/l)	1	1.5	0.621	0.623	0.610	0.456	0.471	0.437	0.472	0.445	0.435	0.587
Chloride (mg/l)	250	1000	150	50	125	250	300	275	300	275	275	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	0.0020	0.0014	0.0021	0.0019	0.0017	0.0017	0.0015	0.0015	0.0016	0.0023
Copper (mg/l)	0.05	1.5	0.0020	0.0012	0.0003	0.0001	0.0002	0.0005	0.0003	0.0002	0.00010	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	0.0065	0.0104	0.0069	0.0060	0.0055	0.0064	0.0050	0.0056	0.0050	0.0056
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.21	0.12	0.177	0.15	0.19	0.13	0.18	0.12	0.152	0.126
Zinc (mg/l)	5	15	0.0762	0.0276	0.0048	0.0109	0.0109	0.0026	0.0165	0.0068	0.0051	0.0036
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

