

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE-28/07/16)**

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	365	453	500	655	499	452	730	672	387
Hardness (as CaCO ₃) (mg/l)	300	600	100	150	100	110	120	210	240	200	140	100
Alkalinity (as CaCO ₃) (mg/l)	200	600	350	460	350	330	280	460	460	350	260	330
Nitrate (mg/l)	50	No relaxation	0.07	0.15	0.05	0.10	0.06	0.03	0.30	0.78	0.18	0.08
Sulfate (mg/l)	200	400	56	45	43	52	69	78	67	66	41	56
Fluoride (mg/l)	1	1.5	0.889	0.912	0.889	0.686	0.696	0.578	0.941	0.862	0.726	0.736
Chloride (mg/l)	250	1000	110	60	135	480	285	265	70	110	285	100
Turbidity (NTU)	5	10	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	0.05	0.0027	0.0020	0.0024	0.0022	0.0020	0.0015	0.0014	0.0009	0.0021	0.0034
Copper (mg/l)	0.05	1.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	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	0.0076	0.0187	0.0084	0.0075	0.0067	0.0010	0.0011	0.0077	0.0035	0.0074
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.23	0.23	0.20	0.24	0.21	0.121	0.143	0.21	0.121	0.134
Zinc (mg/l)	5	15	0.0011	0.0457	0.0259	BDL	BDL	0.0021	BDL	BDL	BDL	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

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

