

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 28/01/14)**

Parameters	Desirable Limit	Maximum Limit	P1	P2B	P3	P4	P7	P8	P9	P10	P11
pH	6.5 to 8.5	No relaxation	7.5	7.0	7.2	7.2	7.2	7.2	7.1	7.3	7.3
TDS (mg/l)	500	2000	440	320	450	510	600	650	600	600	610
Hardness (as CaCO ₃) (mg/l)	300	600	100	120	100	150	160	170	180	190	160
Alkalinity (as CaCO ₃) (mg/l)	200	600	260	300	280	300	320	310	320	300	340
Nitrate (mg/l)	50	No relaxation	0.2	0.21	0.25	0.29	0.26	0.28	0.41	0.45	0.51
Sulfate (mg/l)	200	400	41	55	66	48	45	41	55	52	45
Fluoride (mg/l)	1	1.5	0.55	0.71	0.66	0.49	0.3	0.22	0.66	0.7	0.31
Chloride (mg/l)	250	1000	152	49	113	172	261	104	91	125	129
Turbidity (NTU)	5	10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Arsenic (mg/l)	0.01	No relaxation	0.003	0.002	0.0031	0.002	0.002	0.002	0.001	0.001	0.002
Copper (mg/l)	0.05	1.5	0.002	0.0009	0.0006	0.0014	0.001	0.0007	0.0007	0.0008	0.0008
Cadmium (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0023	0.0031	0.0017	0.0032	0.0034	0.0046	0.0036	0.0058	0.0037
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	0.004	BDL	0.0043	BDL	0.0011
Iron (mg/l)	0.3	1	0.239	0.289	0.278	0.233	0.146	0.173	0.267	0.242	0.274
Zinc (mg/l)	5	15	0.0005	BDL	BDL	BDL	0.004	BDL	0.0059	0.00022	0.0056
Fecal Coliform (cfu)	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

*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*

REMARKS: Except Total dissolved solids (TDS) in source pumps P4, P7, P8, P9, P10 and P11, all the other water quality parameters were within desirable limits. However, all the water quality parameters analyzed were within the maximum limits.