

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 26/06/14)**

Parameters	Desirable Limit	Maximum Limit	P1	P2B	P3	P4	P7	P8	P9	P10	P11
pH	6.5 to 8.5	No relaxation	7.6	7.6	7.7	7.6	7.6	7.6	7.4	7.5	7.6
TDS (mg/l)	500	2000	473	456	453	383	688	750	641	640	736
Hardness (as CaCO ₃) (mg/l)	300	600	120	110	140	130	140	130	150	140	150
Alkalinity (as CaCO ₃) (mg/l)	200	600	230	250	250	210	250	280	260	280	300
Nitrate (mg/l)	50	No relaxation	0.2	0.23	0.2	0.23	0.24	0.22	0.28	0.35	0.41
Sulfate (mg/l)	200	400	39	34	45	41	36	48	55	47	44
Fluoride (mg/l)	1	1.5	0.53	0.65	0.68	0.55	0.31	0.33	0.55	0.65	0.48
Chloride (mg/l)	250	1000	138	36	102	153	262	131	74	111	128
Turbidity (NTU)	5	10	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
Arsenic (mg/l)	0.01	No relaxation	0.0035	0.0018	0.0027	0.0015	0.0017	0.0010	0.0014	0.0014	0.0036
Copper (mg/l)	0.05	1.5	0.0027	0.0013	0.0005	0.0004	0.0004	0.0005	0.0004	0.0004	0.0027
Cadmium (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0029	0.0015	0.0026	0.0028	0.0042	0.0037	0.005	0.0035	0.003
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	1	0.146	0.105	0.168	0.176	0.147	0.185	0.149	0.194	0.256
Zinc (mg/l)	5	15	0.0053	0.0053	0.0091	0.0048	BDL	0.0028	0.002	0.006	0.0053
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 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.