

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE  
(SAMPLING DATE 23/07/14)**

<b>Parameters</b>	<b>Desirable Limit</b>	<b>Maximum Limit</b>	<b>P1</b>	<b>P2B</b>	<b>P3</b>	<b>P4</b>	<b>P7</b>	<b>P8</b>	<b>P9</b>	<b>P10</b>	<b>P11</b>
pH	6.5 to 8.5	No relaxation	7.1	7.7	7.7	7.8	7.7	7.6	7.5	7.6	7.7
TDS (mg/l)	500	2000	468	376	650	383	682	742	617	641	716
Hardness (as CaCO <sub>3</sub> ) (mg/l)	300	600	150	120	100	140	150	140	180	170	170
Alkalinity (as CaCO <sub>3</sub> ) (mg/l)	200	600	200	250	220	240	260	280	260	280	300
Nitrate (mg/l)	50	No relaxation	0.22	0.19	0.17	0.26	0.22	0.2	0.24	0.38	0.37
Sulfate (mg/l)	200	400	32	24	47	25	23	60	31	34	42
Fluoride (mg/l)	1	1.5	0.81	0.856	0.884	0.6	0.902	0.37	0.633	0.494	0.712
Chloride (mg/l)	250	1000	94	58	149	119	309	179	199	294	274
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	0.0015	0.001	0.0017	0.0015	0.0012	0.0009	0.0011	0.0016	0.002
Copper (mg/l)	0.05	1.5	BDL	0.0023	0.0015	0.0004	BDL	BDL	0.0004	0.0001	0.0021
Cadmium (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0019	0.0025	0.0016	0.0018	0.0022	0.0027	0.0041	0.0031	0.0019
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	1	0.136	0.97	0.174	0.156	0.150	0.206	0.170	0.235	0.226
Zinc (mg/l)	5	15	BDL	BDL	0.006	0.0053	0.0091	0.0053	0.002	0.0028	0.0048
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 P3, 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.**