

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE  
(SAMPLING DATE 28/04/14)**

<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	7.7	7.7	7.7	7.2	7.6	7.5	7.4	7.3	7.5
TDS (mg/l)	500	2000	469	376	447	750	683	741	450	660	708
Hardness (as CaCO <sub>3</sub> ) (mg/l)	300	600	110	150	100	110	150	160	180	180	150
Alkalinity (as CaCO <sub>3</sub> ) (mg/l)	200	600	260	270	260	280	300	320	310	320	350
Nitrate (mg/l)	50	No relaxation	0.2	0.21	0.25	0.28	0.23	0.26	0.39	0.45	0.51
Sulfate (mg/l)	200	400	39	43	60	38	45	48	57	59	51
Fluoride (mg/l)	1	1.5	0.52	0.74	0.76	0.54	0.33	0.38	0.65	0.71	0.45
Chloride (mg/l)	250	1000	160	43	132	182	285	123	94	113	108
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	0.0022	0.0016	0.0026	0.0004	0.0013	0.002	0.0008	0.0013	0.0018
Copper (mg/l)	0.05	1.5	0.0029	0.0004	BDL	0.0018	0.0006	BDL	0.0004	0.0004	BDL
Cadmium (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.002	BDL	0.0014	0.0076	0.0032	0.0062	0.0019	0.0071	0.0027
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	1	0.174	0.155	0.274	0.195	0.217	0.265	0.160	0.245	0.239
Zinc (mg/l)	5	15	BDL	BDL	BDL	BDL	BDL	BDL	0.0012	0.005	BDL
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, 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.**