

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 28/05/14)**

Parameters	Desirable Limit	Maximum Limit	P1	P2B	P3	P4	P7	P8	P9	P10	P11
pH	6.5 to 8.5	No relaxation	7.2	7.8	7.7	7.6	7.6	7.5	7.2	7.4	7.2
TDS (mg/l)	500	2000	479	379	450	774	692	746	628	658	632
Hardness (as CaCO ₃) (mg/l)	300	600	130	140	120	120	130	150	170	160	160
Alkalinity (as CaCO ₃) (mg/l)	200	600	250	260	230	250	280	300	290	300	330
Nitrate (mg/l)	50	No relaxation	0.21	0.2	0.23	0.25	0.25	0.25	0.31	0.4	0.45
Sulfate (mg/l)	200	400	32	41	50	34	40	54	60	51	48
Fluoride (mg/l)	1	1.5	0.51	0.71	0.73	0.51	0.63	0.68	0.89	0.7	0.41
Chloride (mg/l)	250	1000	149	42	124	165	281	117	85	106	116
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	0.0021	0.0023	0.0016	0.001	BDL	0.0017	0.0012	0.0016	0.0018
Copper (mg/l)	0.05	1.5	0.0003	0.0014	0.0007	BDL	0.0006	BDL	BDL	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	0.0032	BDL	0.0014	BDL	0.0012	BDL	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	0.164	0.125	0.281	0.201	0.247	0.165	0.170	0.284	0.259
Zinc (mg/l)	5	15	0.0043	BDL	BDL	0.0023	BDL	BDL	0.0009	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.