

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE  
(SAMPLING DATE 27/02/14)**

<b>Parameters</b>	<b>Permissible 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	7.3	7.2	7.3	7.4	7.4	7.3	7.0	7.2	7.4
TDS (mg/l)	500	2000	470	375	441	587	674	739	442	662	703
Hardness (as CaCO <sub>3</sub> ) (mg/l)	300	600	120	140	110	140	150	160	170	180	150
Alkalinity (as CaCO <sub>3</sub> ) (mg/l)	200	600	250	270	300	280	310	300	310	320	330
Nitrate (mg/l)	50	No relaxation	0.22	0.2	0.23	0.25	0.27	0.26	0.38	0.41	0.48
Sulfate (mg/l)	200	400	40	48	60	45	49	38	50	47	41
Fluoride (mg/l)	1	1.5	0.50	0.68	0.61	0.45	0.26	0.29	0.60	0.67	0.35
Chloride (mg/l)	250	1000	148	45	105	165	245	115	95	120	135
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	0.002	0.0017	0.0027	0.0018	0.0021	0.0020	0.0012	0.0015	0.0023
Copper (mg/l)	0.05	1.5	0.001	0.0007	0.0008	0.0012	0.001	0.0006	0.0008	0.0006	0.0007
Cadmium (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0034	0.0019	0.0025	0.0040	0.0052	0.0040	0.0038	0.0050	0.0041
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	0.0041	BDL	BDL	BDL	0.0012
Iron (mg/l)	0.3	1	0.219	0.267	0.263	0.241	0.157	0.181	0.271	0.251	0.269
Zinc (mg/l)	5	15	0.0003	BDL	BDL	BDL	BDL	BDL	0.0045	BDL	0.0040
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

*Sampling locations: H1 to RA2 various hostels; VH- Visitors Hostel; HC- Health Centre;*

*T1 to T6 Residences with corresponding House Numbers.*

*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.**