

RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 17/02/16)
TABLE 1- PUMPS

Parameters	Desirable Limit	Maximum Limit	P1	P2	P3	P4	P7	P8	P9	P10	P11	P12
pH	6.5 to 8.5	No relaxation	7.8	7.3	8.2	7.3	7.9	7.9	7.8	7.4	7.7	7.2
TDS (mg/l)	500	2000	472	366	450	541	614	745	566	653	684	387
Hardness (as CaCO ₃) (mg/l)	300	600	130	250	120	130	170	200	380	350	200	90
Alkalinity (as CaCO ₃) (mg/l)	200	600	370	470	370	330	310	300	480	350	310	370
Nitrate (mg/l)	50	No relaxation	0.013	0.032	0.47	0.042	0.21	0.20	0.25	0.03	0.23	0.05
Sulfate (mg/l)	200	400	54	45	59	63	66	87	65	49	89	71
Fluoride (mg/l)	1	1.5	0.93	0.97	0.42	0.69	0.62	0.91	0.89	0.56	0.91	0.59
Chloride (mg/l)	250	1000	165	140	150	270	295	340	160	135	340	115
Turbidity (NTU)	5	10	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.000	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0011	0.0012	0.0015	0.0011	0.0019	0.0016	0.0010	0.0014	0.0017	0.0019
Copper (mg/l)	0.05	1.5	0.0045	0.0011	BDL	0.0021	BDL	0.0003	0.0011	0.0015	0.0010	0.0012
Cadmium (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0064	0.0013	0.0034	0.0021	0.0030	0.0061	0.0041	0.0051	0.0077	0.0050
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	1	0.121	0.112	0.130	0.138	0.126	0.145	0.121	0.121	0.132	0.145
Zinc (mg/l)	5	15	0.0021	BDL	0.0013	0.0017	BDL	0.0019	BDL	BDL	0.0067	BDL
Fecal Coliform (cfu)	0	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	0

Sampling Locations: P1 – Opp. Type 2 shop-C near water tank, P2- End of lane 37 near house 4098, P3 – Behind Helicopter building, P4 – Behind SIS hostel/NCC, P7 - Near water tank and main entrance of VH-Extension , type-1, P-8 Near Health Centre, P-9 Near front parking area of Hall-9, P-10- Near water tank at right side of Hall-3, P-11 - Behind mess and inside of Hall-10, P-12 - Near about 150 Mtr. of P-2 (end of lane-36) at same lane.

TABLE 3 – VARIOUS RESIDENTIAL LOCATIONS

Parameters	T1 (249 B)	T2 (233)	T3 (3045)	T3 (3046)	T4 (448)	T5 (505)	T6 (623)	Multistory Building-A (104)	Multistory Building-B (103)
pH	7.9	8.1	7.5	6.9	7.4	7.9	7.7	7.5	7.6
TDS (mg/l)	612	466	382	467	387	745	382	695	674
Hardness (mg/l)	150	110	110	120	120	180	160	240	270
Alkalinity (mg/l)	360	370	380	370	430	310	390	420	450
Nitrate (mg/l)	0.312	0.095	0.072	0.101	0.042	0.101	0.23	0.29	0.11
Sulfate (mg/l)	39	53	51	69	45	59	37	87	98
Fluoride (mg/l)	0.91	0.93	0.93	0.88	0.92	0.761	0.91	0.83	0.94
Chloride (mg/l)	290	175	165	150	115	335	105	240	210
Turbidity (NTU)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.0013	0.0017	0.0057	0.0032	0.0025	0.0014	0.0013	0.0026	0.0027
Copper (mg/l)	0.0002	0.0004	0.0006	0.0008	0.0008	0.0004	0.0003	0.0012	BDL
Cadmium (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.0026	0.0027	0.0021	0.0026	0.0025	0.0063	0.0028	0.0057	0.0055
Lead (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.12	0.16	0.12	0.17	0.19	0.12	0.17	0.19	0.16
Zinc (mg/l)	0.031	0.018	0.028	0.037	0.052	0.046	0.018	0.021	0.041
Fecal Coliform (cfu)	0	0	0	0	0	0	0	0	0
E. Coli (cfu)	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.

Multistory Building A & B- New faculty buildings 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