RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 27/03/19)
TABLE 1- PUMPS

Parameters	Permissible Limit	Maximum Limit	P1	P2	P3	P7	P8	P11	P12
pH	6.5 to 8.5	No relaxation	8.09	7.91	7.69	7.67	8.03	7.79	7.62
TDS (mg/l)	500	2000	498	372	478	664	763	682	419
Hardness (as $CaCO_3$) (mg/l)	300	600	90	180	100	140	160	160	90
Alkalinity (as $CaCO_3$) (mg/l)	200	600	350	400	280	280	240	280	320
Nitrate (mg/l)	50	No relaxation	0.02	0.23	0.05	0.03	0.06	0.08	0.04
Sulfate (mg/l)	200	400	42	29	31	56	58	34	37
Fluoride (mg/l)	1	1.5	0.664	0.689	0.652	0.505	0.456	0.502	0.657
Chloride (mg/l)	250	1000	150	35	135	315	245	300	100
Turbidity (NTU)	5	10	0	0	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0011	0.0022	0.0014	0.0017	0.0015	0.0019	0.0009
Copper (mg/l)	0.05	1.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0009	0.0018	0.0030	0.0004	BDL	0.0010	0.0006
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	1	0.11	0.09	0.18	0.15	0.19	0.10	0.13
Zinc (mg/l)	5	15	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fecal Coliform (cfu)	0	0	0	0	0	0	0	0	0
E. Coli (cfu)	0	0	0	0	0	0	0	0	0

TABLE 2 - VARIOUS HOSTELS LOCATIONS

Parameters	Hall 1	Hall 2	Hall 3	Hall 4	Hall 5	Hall 7	Hall 8	Hall 9	Hall 10	Hall 11	Hall 12	Hall 13	GH 1	GH2
pH	7.71	7.45	7.30	7.67	7.85	8.03	8.09	7.82	8.45	8.21	8.00	7.86	7.96	8.13
TDS (mg/l)	494	22.3	561	543	616	698	675	698	673	114	202	660	524	676
Hardness (as $CaCO_3$) (mg/l)	140	60	130	120	150	180	140	150	120	70	120	130	290	170
Alkalinity (as $CaCO_3$) (mg/l)	350	40	320	320	260	270	290	280	250	110	210	300	330	290
Nitrate (mg/l)	0.16	0.02	0.06	0.07	0.01	0.28	0.04	0.03	0.07	0.02	0.03	0.02	0.04	0.01
Sulfate (mg/l)	35	4	17	30	37	45	25	51	26	8	23	43	27	65
Fluoride (mg/l)	0.770	0.051	0.656	0.707	0.545	0.573	0.614	0.564	0.556	0.107	0.165	0.470	1.22	0.631
Chloride (mg/l)	140	20	195	180	245	290	270	285	295	50	90	260	170	255
Turbidity (NTU)	0.002	0.001	0.001	0	0	0	0	0.001	0	0.002	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.0016	0.0005	0.0014	0.0016	0.0016	0.0015	0.0011	0.0015	0.0016	BDL	0.0004	0.0014	0.0009	0.0014
Copper (mg/l)	0.0075	0.0015	0.0043	0.0072	0.0044	0.0100	0.0071	0.0091	0.0074	0.0010	0.0059	0.0180	0.0052	0.0056
Cadmium (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.1621	0.0246	0.1494	0.1569	0.1609	0.1813	0.1739	0.1881	0.0900	0.0934	0.0610	0.1383	0.1858	0.1809
Zinc (mg/l)	0.0440	0.1366	0.0618	0.0259	0.0218	0.0950	0.0580	0.0790	0.0074	0.0285	0.0121	0.0715	0.0358	0.0183
Fecal Coliform (cfu)	0	0	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	0	0

TABLE 3 - VARIOUS HOSTELS LOCATIONS CONTD

Parameters	New RA1	VH	HC	New SBRA	Old SBRA
pH	8.06	8.58	8.51	7.96	7.86
TDS (mg/l)	33.1	50.2	533	758	213
Hardness (as $CaCO_3$) (mg/l)	60	70	140	150	90
Alkalinity (as $CaCO_3$) (mg/l)	50	80	320	260	130
Nitrate (mg/l)	0.04	0.01	0.02	0.06	0.02
Sulfate (mg/l)	3	2	41	50	39
Fluoride (mg/l)	0.050	0.101	0.785	0.502	0.171
Chloride (mg/l)	30	20	180	295	90
Turbidity (NTU)	0.001	0	0.001	0	0.001
Arsenic (mg/l)	0.0005	0.0005	0.0014	0.0014	0.0002
Copper (mg/l)	0.0030	0.0018	0.0048	0.0069	0.0041
Cadmium (mg/l)	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	BDL	BDL	BDL	BDL	BDL
Lead (mg/l)	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.032	0.0796	0.1259	0.1782	0.0957
Zinc (mg/l)	0.0559	0.0312	0.0150	0.0216	0.0399
Fecal Coliform (cfu)	0	0	0	0	0
E. Coli (cfu)	0	0	0	0	0

TABLE 4 – VARIOUS RESIDENTIAL LOCATIONS

Parameters	T1 (1021)	T2 (203)	T3D (323)	T3F (365)	T4 (4062)	T5 (509)	T6 (618)	Multistory Building-A (104)	Multistory Building-B (103)	Multistory Building-C (104)	Multistory Building-D (102)
pH	7.55	7.23	7.74	7.25	8.31	8.21	7.85	8.41	8.36	8.46	8.20
TDS (mg/l)	651	504	500	403	400	728	400	746	738	765	738
Hardness (as $CaCO_3$) (mg/l)	130	100	110	140	150	160	160	220	120	170	160
Alkalinity (as $CaCO_3$) (mg/l)	300	350	340	420	410	280	390	250	220	260	230
Nitrate (mg/l)	0.21	0.16	0.24	0.18	0.49	0.16	0.40	0.04	0.07	0.03	0.02
Sulfate (mg/l)	49	24	34	20	39	61	26	62	38	70	75
Fluoride (mg/l)	0.834	0.821	0.854	0.875	0.909	0.662	0.857	0.437	0.445	0.435	0.427
Chloride (mg/l)	305	155	155	75	75	275	80	285	310	285	275
Turbidity (NTU)	0	0.001	0.001	0.001	0.001	0	0.001	0.001	0.002	0.001	0.001
Arsenic (mg/l)	0.0019	0.0019	0.0017	0.0019	0.0019	0.0016	0.0016	0.0013	0.0013	0.0013	0.0014
Copper (mg/l)	0.0121	0.0055	0.0037	0.0057	0.0065	0.0066	0.0060	0.0050	0.0126	0.0070	0.0050
Cadmium (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	BDL	BDL	BDL	BDL	0.0006	0.0038	BDL	BDL	BDL	BDL	BDL
Lead (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.1599	0.1411	0.1284	0.1407	0.1321	0.1932	0.1443	0.1260	0.0971	0.1539	0.1069
Zinc (mg/l)	0.0334	0.0291	0.0217	0.1729	0.0742	0.0383	0.1882	0.0043	0.0156	0.0158	0.0198
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.
Multistory Building A to D - 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