

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE**  
**(SAMPLING DATE 15/02/17)**  
**TABLE 1- PUMPS**

<b>Parameters</b>	<b>Permissible Limit</b>	<b>Maximum Limit</b>	<b>P1</b>	<b>P2</b>	<b>P3</b>	<b>P4</b>	<b>P8</b>	<b>P9</b>	<b>P11</b>	<b>P12</b>
pH	6.5 to 8.5	No relaxation	8.42	8.48	8.49	8.47	8.38	8.38	8.50	8.48
TDS (mg/l)	500	2000	465	353	436	506	721	717	589	385
Hardness (as CaCO <sub>3</sub> ) (mg/l)	300	600	100	180	120	90	190	300	120	140
Alkalinity (as CaCO <sub>3</sub> ) (mg/l)	200	600	300	420	310	280	240	400	240	330
Nitrate (mg/l)	50	No relaxation	0.01	0.23	0.02	0.03	0.01	0.22	0.02	0.01
Sulfate (mg/l)	200	400	33	29	39	44	73	54	51	41
Fluoride (mg/l)	1	1.5	0.636	0.621	0.611	0.568	0.423	0.835	0.486	0.616
Chloride (mg/l)	250	1000	150	40	130	215	305	190	315	95
Turbidity (NTU)	5	10	0	0	0.001	0.001	0.001	0.002	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0020	0.0014	0.0022	0.0017	0.0019	0.0013	0.0022	0.0026
Copper (mg/l)	0.05	1.5	BDL	BDL	0.0016	BDL	BDL	BDL	BDL	0.00190
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0032	0.0052	0.0038	0.0034	0.0028	0.0055	0.0033	0.0040
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	1	0.121	0.172	0.123	0.198	0.172	0.134	0.177	0.192
Zinc (mg/l)	5	15	0.0574	0.0122	BDL	BDL	BDL	0.0359	0.0031	0.0061
Fecal Coliform (cfu)	0	0	0	0	0	0	0	0	0	0
E. Coli (cfu)	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**

<b>Parameters</b>	<b>T1 (249 B)</b>	<b>T2 (233)</b>	<b>T3 (3045)</b>	<b>T3 (3046)</b>	<b>T4 (448)</b>	<b>T5 (505)</b>	<b>T6 (623)</b>	<b>Block A (104)</b>	<b>Block B (103)</b>	<b>NEW SBRA</b>	<b>Old SBRA</b>
pH	8.25	8.38	8.44	8.19	8.41	8.48	8.550	8.50	8.42	8.47	8.11
TDS (mg/l)	613	461	371	52.8	353	733	368	720	729	732	75.6
Hardness (as CaCO <sub>3</sub> ) (mg/l)	130	90	110	70	200	190	130	160	150	170	80
Alkalinity (as CaCO <sub>3</sub> ) (mg/l)	300	300	340	100	410	280	340	220	270	250	100
Nitrate (mg/l)	0.02	0.01	0.02	0.03	0.29	0.02	0.05	0.01	0.06	0.01	0.01
Sulfate (mg/l)	58	57	43	04	45	72	32	78	82	82	22
Fluoride (mg/l)	0.425	0.548	0.591	0.193	0.613	0.437	0.624	0.443	0.426	0.408	0.104
Chloride (mg/l)	290	150	70	25	35	325	80	285	300	285	40
Turbidity (NTU)	0	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001
Arsenic (mg/l)	0.0019	0.0025	0.0026	0.0002	0.002	0.0015	0.004	0.0018	0.0017	0.0013	0.0016
Copper (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.00016
Cadmium (mg/l)	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.0036	0.0039	0.0052	0.0009	0.004	0.0057	0.004	0.0031	0.003	0.0053	0.0031
Lead (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.121	0.121	0.161	0.171	0.133	0.122	0.126	0.198	0.213	0.165	0.121
Zinc (mg/l)	0.0759	0.0974	0.124	0.00750	0.072	0.215	0.223	0.0288	0.0246	0.1051	0.07198
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. Block 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*