

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE  
(SAMPLING DATE 28/12/22)**

<b>Parameters</b>	<b>Permissible Limit</b>	<b>Maximum Limit</b>	<b>P3</b>	<b>P8</b>	<b>P11</b>	<b>P12</b>	<b>P13</b>	<b>P14</b>	<b>P15</b>	<b>P16</b>
pH	6.5 to 8.5	No relaxation	7.89	7.95	8.12	8.10	7.91	7.98	8.02	8.08
TDS (mg/l)	500	2000	404	739	635	395	541	639	693	407
Hardness (as CaCO <sub>3</sub> ) (mg/l)	200	600	100	140	130	80	100	120	160	90
Alkalinity(as CaCO <sub>3</sub> ) (mg/l)	200	600	350	280	290	350	300	280	290	300
Nitrate (mg/l)	45	No relaxation	0.08	0.06	0.11	0.09	0.06	0.08	0.09	0.06
Sulfate (mg/l)	200	400	34.01	52.31	38.42	33.26	41.05	36.02	54.98	36.63
Fluoride (mg/l)	1	1.5	0.962	0.627	0.726	0.953	0.842	0.656	0.680	0.957
Chloride (mg/l)	250	1000	125	300	280	90	200	275	310	100
Turbidity (NTU)	5	10	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	0.05	0.0025	0.0023	0.0024	0.0034	0.0022	0.0023	0.0022	0.0021
Copper (mg/l)	0.05	1.5	0.0019	0.0042	0.0039	0.0028	0.0033	0.0039	0.0041	0.0034
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0026	0.0019	0.0020	0.0013	0.0010	0.0011	0.0009	0.0010
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.14	0.12	0.19	0.13	0.17	0.15	0.21	0.16
Zinc (mg/l)	5	15	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0036
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: P3 – Behind Helicopter building,  
P-8 Near Health Centre,  
P-11 Hall 10 back side,  
P-12 - Near about 150 M of P-2 (end of lane-36),  
P13 – Near Visiting Faculty Apartment,  
P14 Near Hall 12,  
P15 Behind New Sac,  
P16 – Near duplex type-3*

*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.*