

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE  
(SAMPLING DATE 30/05/2024)**

<b>Parameters</b>	<b>Permissible Limit</b>	<b>Maximum Limit</b>	<b>P3</b>	<b>P7</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	8.37	7.85	7.88	8.31	7.79	8.11	7.98	8.19	8.27
TDS (mg/l)	500	2000	469	637	736	662	415	667	582	745	441
Hardness (as CaCO <sub>3</sub> ) (mg/l)	200	600	110	120	160	130	100	130	110	160	110
Alkalinity(as CaCO <sub>3</sub> ) (mg/l)	200	600	310	240	290	250	300	260	250	280	300
Nitrate (mg/l)	45	No relaxation	0.08	0.07	0.10	0.07	0.09	0.06	0.07	0.06	0.08
Sulfate (mg/l)	200	400	31.52	49.37	39.65	42.17	33.89	28.74	45.32	35.81	29.95
Fluoride (mg/l)	1	1.5	0.781	0.613	0.641	0.621	0.862	0.571	0.719	0.669	0.822
Chloride (mg/l)	250	1000	135	265	245	285	100	280	190	295	110
Turbidity (NTU)	1	5	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	No relaxation	0.0022	0.0023	0.0024	0.0025	0.0029	0.0026	0.0023	0.0027	0.0022
Copper (mg/l)	0.05	1.5	0.0028	0.0035	0.0034	0.0032	0.0020	0.0029	0.0020	0.0032	0.0016
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0010	0.0008	0.0011	0.0010	0.0009	0.0008	0.0007	0.0009	0.0007
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	1.0	No relaxation	0.18	0.20	0.16	0.21	0.17	0.18	0.16	0.17	0.19
Zinc (mg/l)	5	15	0.0024	BDL	0.0025	BDL	0.0047	BDL	BDL	BDL	BDL
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: P3 - Behind Helicopter building,  
P7 - Near water tank and main entrance of VH-Extension, type-1  
P8 - Near Health Centre,  
P11 - Hall 10 back side,  
P12 - 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.*