

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE  
(SAMPLING DATE 27/12/2024)**

<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	8.29	8.37	8.13	7.99	8.34	8.41	8.15	8.28	8.35
TDS (mg/l)	500	2000	468	654	759	686	424	612	691	752	443
Hardness (as CaCO <sub>3</sub> ) (mg/l)	200	600	120	140	150	130	100	120	160	170	110
Alkalinity (as CaCO <sub>3</sub> ) (mg/l)	200	600	300	270	280	250	290	280	250	260	300
Nitrate (mg/l)	45	No relaxation	0.08	0.10	0.07	0.09	0.06	0.08	0.06	0.07	0.08
Sulfate (mg/l)	200	400	32.85	48.52	51.78	23.36	32.42	47.89	38.42	40.55	27.57
Fluoride (mg/l)	1	1.5	0.749	0.541	0.579	0.509	0.795	0.665	0.605	0.566	0.732
Chloride (mg/l)	250	1000	130	260	280	285	105	185	290	310	120
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	0.0024	0.0029	0.0026	0.0030	0.0021	0.0027	0.0029	0.0025
Copper (mg/l)	0.05	1.5	0.0016	0.0019	0.0026	0.0020	0.0011	0.0018	0.0021	0.0015	0.0021
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	0.0012	0.0009	0.0013	0.0011	0.0009	0.0010	0.0008	0.0012
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	0.17	0.21	0.17	0.19	0.20	0.18	0.17	0.19
Zinc (mg/l)	5	15	BDL	BDL	0.0018	0.0027	BDL	BDL	BDL	0.0039	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.*