

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE  
(SAMPLING DATE 30/08/2022)**

Parameters	Permissible Limit	Maximum Limit	P1	P3	P7	P8	P11	P12	P13	P14	P15	P16
pH	6.5 to 8.5	No relaxation	7.35	7.84	8.03	7.68	7.49	7.92	7.98	8.05	7.78	7.82
TDS (mg/l)	500	2000	713	452	637	774	656	399	600	653	710	414
Hardness (as CaCO <sub>3</sub> ) (mg/l)	200	600	150	100	110	160	130	90	110	120	150	100
Alkalinity(as CaCO <sub>3</sub> ) (mg/l)	200	600	330	350	270	280	260	300	310	270	280	310
Nitrate (mg/l)	45	No relaxation	0.12	0.09	0.06	0.08	0.11	0.08	0.09	0.07	0.09	0.07
Sulfate (mg/l)	200	400	28.81	37.76	48.89	51.64	34.42	37.62	28.75	25.86	31.77	26.24
Fluoride (mg/l)	1	1.5	0.754	0.635	0.563	0.453	0.589	0.678	0.568	0.581	0.521	0.618
Chloride (mg/l)	250	1000	205	125	280	295	290	90	220	260	320	100
Turbidity (NTU)	5	10	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	0.05	0.0016	0.0027	0.0023	0.0020	0.0021	0.0034	0.0018	0.0023	0.0020	0.0024
Copper (mg/l)	0.05	1.5	0.0032	0.0029	0.0037	0.0012	0.0036	0.0019	0.0021	0.0025	0.0028	0.0036
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0015	0.0008	0.0007	0.0011	0.0008	0.0010	0.0008	0.0012	0.0011	0.0008
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.17	0.13	0.19	0.16	0.15	0.12	0.14	0.16	0.15	0.14
Zinc (mg/l)	5	15	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fecal Coliform (cfu)	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

*Sampling Locations: P1 - Opp. Type 2 shop-C near water tank,  
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.*