

RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 26/07/22)

Parameters	Permissible Limit	Maximum Limit	P1	P3	P7	P8	P11	P12	P13	P14	P15	P16
pH	6.5 to 8.5	No relaxation	7.39	7.26	7.30	7.22	7.32	7.54	7.36	7.44	7.12	7.68
TDS (mg/l)	500	2000	584	446	639	775	667	402	663	516	797	415
Hardness (as CaCO ₃) (mg/l)	200	600	100	110	130	120	110	100	120	100	150	130
Alkalinity(as CaCO ₃) (mg/l)	200	600	300	340	260	230	250	330	250	290	320	330
Nitrate (mg/l)	45	No relaxation	0.14	0.10	0.08	0.06	0.11	0.09	0.07	0.06	0.09	0.12
Sulfate (mg/l)	200	400	36.83	26.98	39.36	50.73	29.94	38.15	42.52	27.94	41.57	29.10
Fluoride (mg/l)	1	1.5	0.694	0.599	0.438	0.396	0.427	0.599	0.411	0.568	0.441	0.590
Chloride (mg/l)	250	1000	190	130	270	300	290	90	285	160	320	105
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	0.0028	0.0025	0.0026	0.0024	0.0027	0.0030	0.0025	0.0018	0.0020	0.0023
Copper (mg/l)	0.05	1.5	0.0034	0.0074	0.0033	0.0018	0.0040	0.0014	0.0076	0.0012	0.0028	0.0057
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0012	0.0008	0.0009	0.0016	0.0006	0.0011	0.0007	0.0010	0.0011	0.0009
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.18	0.16	0.21	0.11	0.15	0.19	0.16	0.14	0.18	0.17
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.