

UTTARAKHAND POLLUTION CONTROL BOARD
Gaura devi Parayavaran Bhawan 46-B, SIDCUL, IT Park, Sahashradhara Road
DEHRADUN (Uttarakhand)



उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड
गौरा देवी पर्यावरण भवन
46-बी, सिडकुल, आई.टी. पार्क, सहस्रधारा रोड़, देहरादून(उत्तराखण्ड)

Ground Water Quality Analysis Report (April 2022)

Parameters	Date	pH	Total Dissolved Solids (mg/l)	Electrical Conductivity(µs/cm)	Chemical Oxygen Demand(mg/l)	Total Hardness(mg/l)	Calcium Hardness (mg/l)	Magnesium Hardness (mg/l)	Total Alkalinity(mg/l)	P - Alkalinity(mg/l)	Chloride (mg/l)	Fluoride(mg/l)	Nitrate - N(mg/l)	Nitrite - N(mg/l)	Sulphate (mg/l)	Phosphate(mg/l)	Sodium(mg/l)	Potassium(mg/l)	Sodium Adsorption Ratio	Arsenic(mg/l)	Nickel(mg/l)	Copper(mg/l)	Mercury(mg/l)	Chromium(mg/l)	Cadmium(mg/l)	Zinc(mg/l)	Lead(mg/l)	Iron(mg/l)	Total Kjeldahl Nitrogen (mg/l)	Aldrin(µg/l)	Endosulphan(µg/l)	Malathion(µg/l)	
Drinking Water Requirement (acceptable limit) as per BIS IS 10500:2012		6.5-8.5	500	N/A	N/A	200	N/A	N/A	200	N/A	250	1	45	N/A	200	N/A	N/A	N/A	N/A	0.01	0.02	0.05	0.001	N/A	0.003	5	0.01	0.3	N/A	0.03	0.4	0.4	
Drinking water Permissible limit(as per BIS IS 10500:2012)		No relaxation	2000	N/A	N/A	600	N/A	N/A	600	N/A	1000	1.5	No relaxation	N/A	400	N/A	N/A	N/A	N/A	0.05	No relaxation	1.5	No relaxation	N/A	No relaxation	15	No relaxation	No relaxation	N/A	N/A	N/A	N/A	
Lowest Detection Limit		2	10 mg/l	05 µs/cm	05 mg/l	10 mg/l	5 mg/l	4 mg/l	20 mg/l	5 mg/l	5 mg/l	0.2 mg/l	0.3 mg/l	0.02 mg/l	5 mg/l	0.2 mg/l	5 mg/l	1 mg/l	N/A	0.01	0.1	0.03	0.001	0.06	0.02	0.01	0.1	0.06	1.5 mg/l	0.05 µg/l	0.05 µg/l	0.50 µg/l	
S.No	Monitoring Location																																
District - Chamoli																																	
1	Handpump, Joshimath town	07-04-2022	6.93	104	165	BDL	76	49	27	BDL	ND	11	0.39	BDL	BDL	22.01	BDL	16.2	9.5	0.8	ND	BDL	0.085	ND	BDL	BDL	0.702	BDL	2.62	9.56	BDL	BDL	BDL
2	Handpump, Gopeshwar town	07-04-2022	6.55	274	384	BDL	110	84	26	72	ND	65	0.24	BDL	0.32	73.69	BDL	69.2	27.7	2.86	ND	BDL	0.34	ND	BDL	BDL	0.118	BDL	1.02	5.4	BDL	BDL	BDL
District - Rudraprayag																																	
3	Handpump, Augestmuni town	04-04-2022	7.42	255	398	BDL	174	146	29	142	ND	50	0.4	BDL	BDL	35.71	BDL	41.6	6.3	1.36	ND	BDL	0.059	ND	BDL	BDL	0.872	BDL	2.12	7.96	BDL	BDL	BDL
4	Handpump, Rudraprayag town	04-04-2022	8.03	320	525	BDL	236	160	76	230	ND	70	0.38	BDL	BDL	18.65	BDL	71.9	7.3	2.02	ND	BDL	BDL	ND	BDL	BDL	0.334	BDL	3.23	4.96	BDL	BDL	BDL
District - Uttarkashi																																	
5	Handpump, Chinyalisaur	07-04-2022	8.08	149	277	BDL	178	120	58	140	ND	11.98	0.43	BDL	0.03	359.7	0.18	26.8	2.1	0.87	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	0.48	6.85	BDL	BDL	BDL
6	Handpump, Uttarkashi	07-04-2022	7.9	109	227	BDL	112	70	42	120	ND	4	0.37	BDL	0.02	357.3	BDL	16.4	2.4	0.67	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	3.72	8.5	BDL	BDL	BDL
District- Tehri																																	

7	Handpump, Bhagirathipurum, Tehri	04-04-2022	7.43	312	472	BDL	186	130	56	200	ND	5	0.24	BDL	BDL	4.44	BDL	36.9	1.7	1.17	ND	BDL	BDL	ND	BDL	BDL	0.26	BDL	3.52	4.55	BDL	BDL	BDL
8	Handpump, New tehri	04-04-2022	7.8	85	133	BDL	61	40	21	53	ND	5	0.21	BDL	BDL	7.21	BDL	36.3	1.8	2.01	ND	BDL	BDL	ND	BDL	BDL	0.282	BDL	2.8	7.62	BDL	BDL	BDL
District - Pauri Garhwal																																	
9	Handpump, Kotdwar Town	11-04-2022	7.8	219	399	BDL	240	170	70	265	ND	27	0.29	BDL	0.18	9.96	BDL	34.4	1.8	0.96	ND	BDL	BDL	ND	BDL	BDL	3.619	0.316	7.07	8.41	BDL	BDL	BDL
10	Handpump near Siggadi Industrial Area, Kotdwar	11-04-2022	7.59	257	474	BDL	133	113	30	170	ND	7	0.33	BDL	0.6	18.23	BDL	40.6	0.82	1.47	ND	BDL	BDL	ND	BDL	BDL	1.541	0.1	4.92	7.85	BDL	BDL	BDL
District - Dehradun																																	
11	Handpump, Pharma city, Selaqui,Dehradun	05-04-2022	6.7	173	260	BDL	122	68	54	80	ND	12	0.27	BDL	0.13	18.9	BDL	26.6	1.5	1.04	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	0.41	7.52	BDL	BDL	BDL
12	Handpump,Selaqui, Industrial Area-1	05-04-2022	6.55	182	274	BDL	124	83	41	90	ND	9	0.33	BDL	BDL	28.24	BDL	29.4	3.8	1.14	ND	BDL	BDL	ND	BDL	BDL	2.17	BDL	13.23	6.52	BDL	BDL	BDL
13	Handpump,Selaqui, Industrial Area-2	05-04-2022	6.76	199	286	BDL	100	61	39	79	ND	14	0.49	BDL	0.02	11.77	BDL	28.2	3.9	1.22	ND	BDL	BDL	ND	BDL	BDL	0.108	BDL	0.06	5.5	BDL	BDL	BDL
14	MSW Landfill site, Sisambada,Dehradun-1 ,North side	05-04-2022	6.94	167	266	BDL	183	152	31	97	ND	6	0.36	BDL	BDL	84.6	0.18	18.8	1.2	0.6	ND	BDL	BDL	ND	BDL	BDL	0.291	BDL	2.16	8.21	BDL	BDL	BDL
15	MSW Landfill site, Sisambada,Dehradun-1 ,South side	05-04-2022	7.05	179	271	BDL	220	160	60	102	ND	7	0.48	BDL	BDL	75.08	BDL	16.9	BDL	0.49	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	2.18	6.52	BDL	BDL	BDL
District - Udham Singh Nagar																																	
16	Handpump at Santipuri Kiccha - 2, U.S. Nagar	07-04-2022	7.6	216	330	5	174	112	62	200	ND	18	0.42	BDL	0.02	15.75	BDL	8.4	BDL	0.27	ND	BDL	BDL	ND	BDL	BDL	0.272	BDL	0.45	8.86	BDL	BDL	BDL
17	Handpump at Santipuri Kiccha - 1, U.S. Nagar	07-04-2022	7.2	234	350	8	195	136	59	212	ND	16	0.4	0.7	0.06	30.8	BDL	12.5	BDL	0.38	ND	BDL	BDL	ND	BDL	BDL	0.037	BDL	0.28	10.56	BDL	BDL	BDL
18	Handpump at Pantnagar Industrial Area - 2, U.S. Nagar	07-04-2022	7.5	200	308	5.8	202	120	82	190	ND	17	0.8	BDL	BDL	36.68	BDL	22.86	BDL	0.69	ND	BDL	BDL	ND	BDL	BDL	0.201	BDL	2.05	8.52	BDL	BDL	BDL
19	Handpump at Pantnagar Industrial Area - 1, U.S. Nagar	07-04-2022	7.4	220	330	5.2	180	122	58	196	ND	14	0.75	BDL	0.06	17.2	0.22	16.2	BDL	0.52	ND	BDL	0.08	ND	BDL	BDL	0.025	BDL	0.12	7.52	BDL	BDL	BDL
20	Handpump at Sitarganj Industrial Area - 2, U.S. Nagar	07-04-2022	7.2	294	440	15	200	164	36	228	ND	20	0.6	BDL	0.05	26.8	BDL	22	BDL	0.67	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	0.98	6.99	BDL	BDL	BDL
21	Handpump near Sitarganj Industrial Area - 1, U.S. Nagar	07-04-2022	7.4	276	410	11	208	164	44	246	ND	26	0.68	BDL	0.02	28.76	BDL	38.4	BDL	1.15	ND	BDL	BDL	ND	BDL	BDL	1.74	BDL	1.84	7.86	BDL	BDL	BDL
22	Handpump near Gurudwara, Muradabad Road, Kashipur, U.S. Nagar	06-04-2022	7.2	230	350	7	214	120	94	196	ND	20	0.46	BDL	0.02	40.3	BDL	54.43	1	1.61	ND	BDL	0.177	ND	BDL	BDL	0.235	BDL	0.98	11.5	BDL	BDL	BDL
23	Handpump near Kendriya Vidyalaya, Bazpur Road, Kashipur, U.S. Nagar	06-04-2022	Handpump was in dry condition due to which sample not taken																														
24	Handpump near I.G.L Lagoon, Chamalida, Kashipur, U.S. Nagar	06-04-2022	7.6	220	720	9	184	110	74	160	ND	18	0.4	BDL	0.02	18	BDL	10.2	BDL	0.32	ND	BDL	BDL	ND	BDL	BDL	0.325	BDL	0.27	10.51	BDL	BDL	BDL
25	Handpump at Chaiti Chauraha, Bajpur Road, Kashipur, U.S. Nagar	06-04-2022	7.4	216	320	12	180	100	80	224	ND	15	0.5	BDL	0.03	32.1	BDL	20.8	2.4	0.67	ND	BDL	BDL	ND	BDL	BDL	0.016	BDL	0.6	7.84	BDL	BDL	BDL
26	Handpump near Govt Primary School, Kashipur, U.S. Nagar	06-04-2022	7.5	226	346	8	220	148	72	222	ND	18	0.4	BDL	BDL	7.8	BDL	28.9	1.8	0.84	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	0.89	11.3	BDL	BDL	BDL

27	Handpump at Industrial Area, Mahuakheraganj, Kashipur, U.S. Nagar	06-04-2022	7.4	290	420	10	140	120	20	244	ND	15	0.55	BDL	0.02	20.4	BDL	20	1.6	0.73	ND	BDL	0.077	ND	BDL	BDL	0.056	BDL	0.6	9.85	BDL	BDL	BDL
28	Handpump near old Industrial Area, Kashipur near IGL, U.S. Nagar.	06-04-2022	7.5	536	800	10	218	142	76	264	ND	12	0.5	BDL	0.05	22.18	BDL	16.2	BDL	0.47	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	0.42	9.52	BDL	BDL	BDL
District - Haridwar																																	
29	Handpump at CHC, Bhagwanpur Industrial Area - 1	12-04-2022	7.39	326	509	11	48	20	28	256	ND	12	0.17	0.24	0.17	9.10	0.15	43.5	1.7	2.73	ND	BDL	0.034	ND	BDL	BDL	0.127	BDL	1.01	5.99	BDL	BDL	BDL
30	Handpump at Sikendrabad, Lakeshwari, Bhagwanpur Industrial Area- 2	12-04-2022	7.4	291	455	8	70	12	58	254	ND	14	0.18	0.25	0.13	5	0.14	47.9	1.8	1.94	ND	BDL	0.046	ND	BDL	BDL	0.043	BDL	0.06	6.1	BDL	BDL	BDL
31	Handpump at Ramnagar Roorkee Industrial Area -1	12-04-2022	7.2	388	606	7	84	18	66	298	ND	26	0.31	0.26	0.33	6.6	0.13	24.2	4	1.14	ND	BDL	BDL	ND	BDL	BDL	ND	0.178	ND	5.68	BDL	BDL	BDL
32	Handpump at Village Sunhera, Roorkee Industrial Area - 2	12-04-2022	7.6	360	563	BDL	66	22	44	320	ND	12	0.23	0.23	0.19	98.3	0.13	47.8	2.4	3.60	ND	BDL	0.04	ND	BDL	BDL	1.73	BDL	2.13	7.12	BDL	BDL	BDL
33	Handpump at Roshnabad, Collectorate, SIDCUL, Industrial Area - 1	12-04-2022	7.1	454	709	6	100	44	56	302	ND	18	0.56	6.55	0.11	6.11	0.05	14.3	1.6	0.62	ND	BDL	0.04	ND	BDL	BDL	ND	0.195	5.37	5.4	BDL	BDL	BDL
34	Handpump at Saleempur Mahdood Chowk, SIDCUL Industrial Area - 2	12-04-2022	6.98	882	1378	10	142	100	42	344	ND	114	BDL	2.4	0.39	5.7	0.19	54.7	BDL	1.98	ND	BDL	BDL	ND	BDL	BDL	0.489	BDL	3.38	6.85	BDL	BDL	BDL
35	Handpump near Municipal Solid Waste Landfill Site, Sarai, Jawalapur Haridwar - 1	12-04-2022	7.2	495	774	8	98	54	44	274	ND	30	BDL	5.3	0.07	38.4	0.18	23.2	2.4	1.01	ND	BDL	BDL	ND	BDL	BDL	3.01	BDL	3.57	5.67	BDL	BDL	BDL
36	Handpump near Municipal Solid Waste Landfill Site, Sarai, Jawalapur Haridwar - 2	12-04-2022	7.15	592	925	9	106	70	36	302	ND	52	0.39	6.20	0.05	68.3	0.14	20.5	1.7	0.86	ND	BDL	0.03	ND	BDL	BDL	0.81	BDL	0.97	4.48	BDL	BDL	BDL
District - Pithoragarh																																	
37	Handpump at Pithoragarh Town near Chandrabhaga, Pithoragarh	11-04-2022	7.75	137	190	BDL	176	102	74	154	ND	21	0.38	BDL	0.09	32.78	BDL	26	3.4	0.84	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	0.25	5.62	BDL	BDL	BDL
38	Handpump at Pithoragarh Town near Pithoragarh fort, Pithoragarh	11-04-2022	7.59	155	230	BDL	168	94	78	172	ND	17	0.29	BDL	BDL	BDL	0.13	BDL	1.1	0.09	ND	BDL	0.161	ND	BDL	BDL	6.82	BDL	5.34	3.96	BDL	BDL	BDL
District - Almora																																	
39	Handpump at Almora Town- 2 near jai shri college, Khatyari, Almora	12-04-2022	7.36	118	170	BDL	184	96	88	166	ND	15	0.28	BDL	0.02	20.89	0.11	45.8	18.3	1.46	ND	BDL	0.033	ND	BDL	BDL	ND	BDL	2.5	3.36	BDL	BDL	BDL
40	Handpump at Almora Town- 1 near Pataldevi, Almora	12-04-2022	7.51	131	190	BDL	196	104	92	184	ND	17	0.23	BDL	BDL	29.65	0.12	8.2	6.6	0.25	ND	BDL	0.06	ND	BDL	BDL	ND	BDL	0.72	4.87	BDL	BDL	BDL
District - Nainital																																	
41	Handpump at Ramnagar Town near Govt PG College, Ramnagar	12-04-2022	7.53	163	240	BDL	190	102	88	192	ND	21	0.35	BDL	BDL	34.64	0.12	8.8	4	0.27	ND	BDL	0.036	ND	BDL	BDL	ND	BDL	0.93	4.85	BDL	BDL	BDL
42	Handpump at Nainital Town near Sariyatal	12-04-2022	7.75	145	210	BDL	182	98	84	164	ND	25	0.22	BDL	0.02	32.85	0.12	13.5	5	0.43	ND	BDL	0.032	ND	BDL	BDL	ND	BDL	1.11	3.36	BDL	BDL	BDL

District - Bageshwar																																	
43	Handpump at Bageshwar Town - 1 near Kafligair	12-04-2022	7.31	148	210	BDL	194	108	86	186	ND	19	0.44	BDL	0.02	23.58	BDL	7.2	3.1	0.22	ND	BDL	0.395	ND	BDL	BDL	0.467	BDL	4.45	5.54	BDL	BDL	BDL
44	Handpump at Baheshwar Town - 2 near Roadways station, Bageshwar	12-04-2022	7.59	113	160	BDL	170	92	78	144	ND	21	0.31	BDL	BDL	BDL	0.25	22.8	13.7	0.75	ND	BDL	0.086	ND	BDL	BDL	0.164	BDL	2.61	4.96	BDL	BDL	BDL
District - Champawat																																	
45	Handpump at Champawat Town - 1 near Shivmandir	11-04-2022	7.43	111	160	BDL	196	104	92	152	ND	19	0.42	BDL	BDL	29.13	BDL	8.8	3.9	0.27	ND	BDL	0.482	ND	BDL	BDL	0.226	BDL	3.43	6.11	BDL	BDL	BDL
46	Handpump at Champawat Town - 2 near Gas Station Lohagat	11-04-2022	7.11	137	190	BDL	166	98	68	160	ND	17	0.36	BDL	BDL	15.16	0.11	BDL	1.4	0.15	ND	BDL	0.534	ND	BDL	BDL	0.767	BDL	2.23	4.1	BDL	BDL	BDL