HEAD OFFICE

UTTARAKHAND POLLUTION CONTROL BOARD
Gauradevi Parayavaran Bhawan
46-B, SIDCUL, IT Park, Sahashtradhara Road, DEHRADUN (Uttarakhand)

उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड
गौरादेवी पर्यावरण भवन
46–बी, सिडकुल, आई.टी. पार्क, सहस्त्रधारा रोड़, देहरादून(उत्तराखण्ड)

Ground Water Metals and Pesticides Quality Report- Pre Mansoon (May-June 2023)

Annexure-II

Parameters		Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	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)	Aldrin (µg/L)	Dieldrin (µg/L)	Alpha-BHC (µg/L)	Beta-BHC (µg/L)	Gamma-BHC (Lindane) (µg/L)	Carbary (Carbamate) (µg/L)	Anilophos (µg/L)	Chlorpyriphos (µg/L)	2,4-dichloro phenoxy Acetic Acid (µg/L)	O,p -DDT (µg/L)	p,p -DDT (µg/L)	Alpha Endosulphan (µg/L)	Beta-Endosulfan (µg/L)	Malathion (µg/L)	Methyl Parathion (µg/L)
Acceptable limit as per BIS IS 10500:2012							0.01	0.02	0.05	0.001	N/A	0.003	5	0.01	0.3	0.03	0.03	0.01	0.04	2	NSL	NSL	30	30	1	1	0.4	0.4	190	0.3
Permissible limit as per BIS IS 10500:2012							0.05	NR	1.5	NR	N/A	NR	15	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Lowest Detection limit							0.01	0.1	0.03	0.001	0.06	0.02	0.01	0.1	0.06	0.01	0.01	0.001	0.01	0.1	0.01	0.01	0.5	0.5	0.01	0.01	0.1	0.1	5.6	0.1
S.No	**Monitoring Location**																													
District - Chamoli																														
1	Handpump, near patrol pump,Joshimath	09-05-2023	Clear	Odourfree	Clear	13	ND	ND	ND	ND	ND	ND	2.18	ND	1.62	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2	Handpump, near Gopinath mandir, Gopeshwar	09-05-2023	Clear	Odourfree	Clear	14	ND	ND	ND	ND	ND	ND	2.61	ND	2.69	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District - Rudraprayag																														
3	Handpump, near Mandhakini ghat,Auguestmuni	15-05-2023	Clear	Odourfree	Clear	13	ND	ND	ND	ND	ND	ND	0.53	ND	0.90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4	Handpump, near Bus Stand, Rudraprayag town	15-05-2023	Clear	Odourfree	Clear	14	ND	ND	ND	ND	ND	ND	0.98	ND	1.22	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District - Uttarkashi																														
5	Handpump near market,Chinyalisaur	03-05-2023	Clear	Odourfree	Clear	19	ND	ND	ND	ND	ND	ND	1.95	ND	2.90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
6	Handpump near market, Uttarkashi	03-05-2023	Turbid	Odourfree	Clear	20	ND	ND	ND	ND	ND	ND	3.65	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District- Tehri																														
7	Handpump, Bhagirathipurum, Tehri	03-05-2023	clear	Odourfree	Clear	20	ND	ND	ND	ND	ND	ND	1.31	ND	2.34	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
8	Handpump, near Chamund, New tehri	03-05-2023	Clear	Odourfree	Clear	20	ND	ND	ND	ND	ND	ND	1.87	ND	2.72	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District - Pauri Garhwal																														
9	Handpump near Devi Mandir, Kotdwar	03-05-2023	clear	Odourfree	Clear	21	ND	ND	ND	ND	ND	ND	3.97	ND	3.13	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10	Handpump near Hanuman Mandhir, Siggadi Industrial Area, Kotdwar	03-05-2023	clear	Odourfree	Clear	20	ND	ND	ND	ND	ND	ND	2.68	ND	2.60	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

S.No	Monitoring Location	Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	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)	Aldrin (µg/L)	Dieldrin (µg/L)	Alpha-BHC (µg/L)	Beta-BHC (µg/L)	Gamma-BHC (Lindane) (µg/L)	Carbary (Carbamate) (µg/L)	Anilophos (µg/L)	Chlorpyriphos (µg/L)	2,4-dichloro phenoxy Acetic Acid (µg/L)	O,p -DDT (µg/L)	p,p -DDT (µg/L)	Alpha Endosulphan (µg/L)	Beta-Endosulfan (µg/L)	Malathion (µg/L)	Methyl Parathion (µg/L)
District - Dehradun																														
11	Handpump near Rusan Pharma, Pharma city, Selaqui,Dehradun	11-05-2023	clear	Odourfree	Clear	19	ND	ND	ND	ND	ND	ND	2.58	ND	3.20	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12	Handpump near Old Police Station, Selaqui, Industrial Area-1	11-05-2023	Clear	Odourfree	Clear	19	ND	ND	ND	ND	ND	ND	1.57	ND	3.28	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
13	Handpump near Honeywell Pvt. Ltd., Selaqui, Industrial Area-2	11-05-2023	clear	Odourfree	Clear	20	ND	ND	ND	ND	ND	ND	0.82	ND	3.22	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
14	MSW Landfill site, Sisambada, Dehradun-1 ,North side	11-05-2023	Clear	Odourfree	Clear	18	ND	ND	ND	ND	ND	ND	1.42	ND	3.09	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
15	MSW Landfill site, Sisambada, Dehradun-1 ,South side	11-05-2023	Clear	Odourfree	Clear	18	ND	ND	ND	ND	ND	ND	1.71	ND	2.91	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District - Udham Singh Nagar																														
17	Handpump at Santipuri Kiccha - 1, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	28	ND	ND	ND	ND	ND	ND	ND	ND	0.69	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
16	Handpump at Santipuri Kiccha - 2, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	26	ND	ND	ND	ND	ND	ND	ND	ND	2.75	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
19	Handpump at Pantnagar Industrial Area - 1, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	26	ND	ND	ND	ND	ND	ND	ND	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
18	Handpump at Pantnagar Industrial Area - 2, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	26	ND	ND	ND	ND	ND	ND	ND	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
21	Handpump near Sitarganj Industrial Area - 1, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	26	ND	ND	ND	ND	ND	ND	ND	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
20	Handpump at Sitarganj Industrial Area - 2, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	27	ND	ND	ND	ND	ND	ND	ND	ND	0.85	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
22	Handpump near Gurudwara, Muradabad Road, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	28	ND	ND	ND	ND	ND	ND	3.69	ND	4.66	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
23	Handpump near Kendriya Vidyalaya, Bazpur Road, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	26	ND	ND	ND	ND	ND	ND	ND	ND	0.74	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
24	Handpump near I.G.L Lagoon, Chamalida, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	27	ND	ND	ND	ND	ND	ND	ND	ND	0.43	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
25	Handpump at Chaiti Chauraha, Bajpur Road, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	27	ND	ND	ND	ND	ND	ND	ND	ND	2.10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
26	Handpump near Govt Primary School, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	26	ND	ND	ND	ND	ND	ND	ND	ND	1.36	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
27	Handpump at Industrial Area, Mahuakheraganj, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	26	ND	ND	ND	ND	ND	ND	ND	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
28	Handpump near old Industrial Area, Kashipur near IGL, U.S. Nagar.	29-05-2023	Clear	Odourless	Clear	28	ND	ND	ND	ND	ND	ND	ND	ND	0.52	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

S.No	Monitoring Location	Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	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)	Aldrin (µg/L)	Dieldrin (µg/L)	Alpha-BHC (µg/L)	Beta-BHC (µg/L)	Gamma-BHC (Lindane) (µg/L)	Carbary (Carbamate) (µg/L)	Anilophos (µg/L)	Chlorpyriphos (µg/L)	2,4-dichloro phenoxy Acetic Acid (µg/L)	O,p -DDT (µg/L)	p,p -DDT (µg/L)	Alpha Endosulphan (µg/L)	Beta-Endosulfan (µg/L)	Malathion (µg/L)	Methyl Parathion (µg/L)
District - Haridwar																														
29	Handpump at CHC, Bhagwanpur Industrial Area - 1	31-05-2023	Clear	Odourfree	Clear	27.6	ND	ND	ND	ND	ND	ND	ND	ND	0.28	BDL	BDL	BDL	BDL	0.201	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
30	Handpump at Sikendarpur, Lakeshwari, Bhagwanpur Industrial Area- 2	31-05-2023	clear	Odourfree	Clear	25.7	ND	ND	ND	ND	ND	ND	ND	ND	0.79	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
31	Handpump at Ramnagar Roorkee Industrial Area -1	31-05-2023	Clear	Odourfree	Clear	27	ND	ND	ND	ND	ND	ND	ND	ND	1.77	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.372	BDL
32	Handpump at Village Sunhera, Roorkee Industrial Area - 2	31-05-2023	Clear	Odourfree	Clear	27	ND	ND	ND	ND	ND	ND	ND	ND	0.46	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
33	Handpump at Roshnabad, Collectorate, SIDCUL, Industrial Area - 1	31-05-2023	Clear	Odourfree	Clear	27.5	ND	ND	ND	ND	ND	ND	1.55	ND	1.47	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.029	BDL
34	Handpump at Saleempur Mahdood Chowk, SIDCUL Industrial Area - 2	31-05-2023	Clear	Odourfree	Clear	28	ND	ND	ND	ND	ND	ND	ND	ND	0.25	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.029	BDL
35	Handpump near Municipal Solid Waste Landfill Site, Near Model Primary School, Sarai, Jawalapur Haridwar	01-06-2023	Clear	Odourfree	Clear	27	ND	ND	ND	ND	ND	ND	ND	ND	0.38	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.029	BDL
36	Handpump near Municipal Solid Waste Landfill Site, Near Jhanda Chowk,Sarai, Jawalapur Haridwar	01-06-2023	Clear	Odourfree	Clear	27.4	ND	ND	ND	ND	ND	ND	ND	ND	0.95	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.029	BDL
District - Pithoragarh																														
37	Handpump at Pithoragarh Town near Chandrabhaga, Pithoragarh	09-05-2023	Clear	Odourfree	Clear	17	ND	ND	ND	ND	ND	ND	2.21	ND	2.76	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
38	Handpump at Pithoragarh Town near Pithoragarh fort, Pithoragarh	09-05-2023	Clear	Odourfree	Clear	16	ND	ND	ND	ND	ND	ND	1.37	ND	1.03	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District - Almora																														
39	Handpump near jai shri college, Khatyari, Almora	09-05-2023	Clear	Odourfree	Clear	16	ND	ND	ND	ND	ND	ND	2.74	ND	6.34	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
40	Handpump near Pataldevi, Almora	09-05-2023	Clear	Odourfree	Clear	16	ND	ND	ND	ND	ND	ND	0.34	ND	2.99	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District - Nainital																														
41	Handpump at Ramnagar Town near Govt PG College, Ramnagar	09-05-2023	Clear	Odourfree	Clear	19	ND	ND	ND	ND	ND	ND	1.79	ND	2.04	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
42	Handpump at Nainital Town near Sariyatal	09-05-2023	Clear	Odourfree	Clear	16	ND	ND	ND	ND	ND	ND	0.96	ND	3.21	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District - Bageshwar																														
43	Handpump near Kafilgair, Bageshwar	08-05-2023	Clear	Odourfree	Clear	17	ND	ND	ND	ND	ND	ND	1.07	ND	2.16	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
44	Handpump at Bageshwar Town - 2 near Roadways station, District-Bageshwar	08-05-2023	Clear	Odourfree	Clear	18	ND	ND	ND	ND	ND	ND	3.51	ND	3.14	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

S.No	Monitoring Location	Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	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)	Aldrin (µg/L)	Dieldrin (µg/L)	Alpha-BHC (µg/L)	Beta-BHC (µg/L)	Gamma-BHC (Lindane) (µg/L)	Carbary (Carbamate) (µg/L)	Anilophos (µg/L)	Chlorpyriphos (µg/L)	2,4-dichloro phenoxy Acetic Acid (µg/L)	O,p -DDT (µg/L)	p,p -DDT (µg/L)	Alpha Endosulphan (µg/L)	Beta-Endosulfan (µg/L)	Malathion (µg/L)	Methyl Parathion (µg/L)
District - Champawat																														
45	Handpump near Shivmandir, Champawat	08-05-2023	Clear	Odourfree	Clear	16	ND	ND	ND	ND	ND	ND	1.31	ND	3.27	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
46	Handpump near Gas Station Lohaghat, Champawat	08-05-2023	Clear	Odourfree	Clear	17	ND	ND	ND	ND	ND	ND	1.61	ND	3.15	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL