

2591

BEFORE THE NATIONAL GREEN TRIBUNAL

PRINCIPAL BENCH, NEW DELHI

Original Application No. 985/2019

In Re: Water Pollution by Tanneries at Jajmau, Kanpur, Uttar Pradesh

with

Original Application No. 986/2019

In Re: Water Pollution at Rania, Kanpur Dehat & Rakhi Mandi, Kanpur

Nagar, Uttar Pradesh

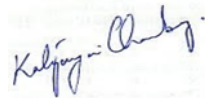
with

Original Application No. 528/2023

News report published in Dainik Jagran dated 14.08.2023 "highlights a growing concern regarding industrial pollution in the Godhrauli village"

FINAL SAMPLE TEST REPORT- CPCB

Dated: 17.01.2025



Through

Katyayni

(Amicus Curiae)

katyaynichaubey986@gmail.com

Mob: 9871741764

The Hon'ble Tribunal, vide order dated 14.08.2024 in OA No. 985/2019 with OA No. 986/2019 and OA No. 528/ 2023, directed Advocate Katyayni, to visit certain districts in the State of Uttar Pradesh. The effective para of the order is as follows:

"...7. Learned Amicus Curiae has sought permission to visit the affected area and collect the information and submit her own assessment before the Tribunal. Regional Officer, CPCB, Lucknow will facilitate the visit of Amicus and District Magistrates, Kanpur Dehat, Kanpur Nagar and Fatehpur will extend full cooperation to the Amicus during the visit and ensure her safety and security."

In compliance of the above-mentioned order, Districts Kanpur Nagar, Kanpur Dehat and Fatehpur (over 19 locations) were visited by the amicus along with the officers from CPCB, UP PCB, UP Jal Nigam and CMO office from 17.11.2024 to 20.11.2024.

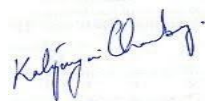
Samples were collected and submitted for testing by the experts from CPCB, Lucknow office namely:

1. Sh. Arvind Kumar, Scientist C, CPCB, RD Lucknow
2. Sh. Lalji Verma, Research Associate-II, CPCB, RD Lucknow
3. Sh. Ravinder Singh, Senior Research Fellow, CPCB, RD Lucknow

The soil, water, drains, and groundwater samples from the three districts were collected and analyzed at the CPCB laboratories. The results of the analysis were shared with the Amicus via email on 16.01.25 at 5:00 PM. The analysis report is summarized in the table below for your kind review.

AND FOR THIS ACT OF KINDNESS, THE ADVOCATE AS IN DUTY BOUND SHALL EVER BE GRATEFUL.

Dated: 17/01/2025



Through
Katyayni
(Amicus Curie)
katyaynichaubey986@gmail.com
Mob: 9871741764

Report IN THE MATTER OF
(O. A. No. 985, 986 of 2019 & 528 of 2024)

1.0. Background:

Hon'ble NGT, Principal Bench, New Delhi has passed order on dated 14.08.2024 for visit of Amicus Curia in the O.A. No. 985, 986 of 2019 & 528 of 2024. The relevant portion of the order is as below:

“7. Learned Amicus Curiae has sought permission to visit the affected area and collect the information and submit her own assessment before the Tribunal. Regional Officer, CPCB, Lucknow will facilitate the visit of Amicus and District Magistrates, Kanpur Dehat, Kanpur Nagar and Fatehpur will extend full cooperation to the Amicus during the visit and ensure her safety and security.

8. List on 27.11.2024”

Copy of reference NGT order is annexed as **Annexure-1**.

In compliance to said order CPCB RD Lucknow has facilitated visit of Amicus Curiae with the coordination of UPPCB and District Administration during 17.11.2024 to 21.11.2024.

2.0. Inspection and Monitoring Activity in Kanpur Nagar on 18.11.2024:

1. Site visit of Golaghat Drain and Ground Water Sampling:
2. Ground water and soil sampling at Rakhi Mandi Juhi Baburiya
3. Ground water samples Rakhi Mandi Afeem Kothi
4. 130 MLD STP 42 MLD STP Jajmau (Inlet, Outlet and Sludge Sampling)
5. 36 MLD CETP Jajmau (Currently operating as STP)
6. Site visit of STP Bhingwa (STP outlet and Sludge Sampling)
7. 20 MLD CETP Jajmau Outlet sampling
8. Irrigation Canal sampling in Jajmau

S. N.	Sampling Details	Lat Long
Golaghat		
1.	Golaghat drain near confluence to river Ganga at Golaghat	26.465486, 80.375493

2.	Handpump sample at Golaghat (120 feet depth)	26.465245, 80.375067
Rakhi Mandi and Afeem Kothi		
3.	Ground water at Rakhi Mandi Juhi Baburiya from borewell (depth 220 feet)	26.445478, 80.32581
4.	Ground water at Makan no 1/3 Rakhi Mandi Juhi Baburiya from borewell (depth 200 feet) newly boring	26.445163, 80.325217
5.	Silt sample at Makan no 1/3 Rakhi Mandi Juhi Baburiya from newly bored borewell (depth 200 feet)	26.445163, 80.325217
6.	Ground Water samples at Rakhi Mandi Afeem Kothi from borewell 120 feet depth	26.453623,80.33445
7.	Ground Water samples at Jaggubabadham Mandir Rakhi Mandi Afeem Kothi from handpump 120 feet depth	26.454635, 80.333887
STP and CETP monitoring		
8.	130 MLD STP, 42 MLD STP Jajmau (Inlet,Outlet and Sludge Sampling) 36 MLD CETP Jajmau (Currently operating as STP)	26.417332, 80.418795
9.	Sampling of outlet and Sludge at Bhingwa STP	26.36785, 80.317297
10.	20 MLD CETP Jajmau Outlet sampling	26.41473, 80.425503
11.	Irrigation Canal sampling in Jajmau	26.413548, 80.42645

3.0. Inspection and Monitoring Activity in Kanpur Dehat on 19.11.2024:

1. Soil and Ground Water monitoring at Hazardous waste dumpsite Rania Khanchandpur
2. Ground water and ash sampling at Khanchandpur Village (Palanpurwa, Yadavpurwa, Chauhanpurwa)
3. Noon river sampling

4. Hazardous waste management site M/s U.P. Waste Management Project & M/s Bharat Oil & Waste Management Pvt. Ltd. Khumbhi, Kanpur Dehat site visit and ground water sampling.

S. N.	Sampling Details	Lat Long
Rania Dump site visit		
1.	Soil sample at Dump site Rania (left side of road)	26.403044, 80.046669
2.	Soil sample at Dump site Rania (Right side of road)	26.403243, 80.04666
3.	Ash sample at dump site (right side)	26.403547, 80.046742
4.	Soil Sample at dump side (back side)	26.403365, 80.048268
5.	Soil and surface water sample at dump side (Mid)	26.40419, 80.047137
6.	Ground water sample from bore well at M/s Natraj Polyplast Pvt. Ltd near dump side Rania (40 feet depth)	26.405415, 80.046454
7.	Ground water sample from bore well at M/s V D Paper and Graphics Industries near dump side Rania (160 feet depth)	26.405047, 80.045689
Khanchandpur village visit		
8.	Handpump (Ground Water) sample at Khanchandpur (100 feet depth)	26.39427, 80.049343
9.	Handpump (Ground Water) sample at Khanchandpur (120 feet depth)	26.395552, 80.05059
10.	Ash sample dumped at Khanchandpur village	26.392839, 80.052177
Noon river sampling		
11.	Water Sample at Noon River, near toll plaza Rania	26.386392, 80.020397
Hazardous waste management site visit at Khumbhi Kanpur Dehat		
12.	Downstream Ground water sample at M/s	26.359013, 79.8681

	U.P. Waste Management Project, Khumbhi Kanpur Dehat	
13.	Upstream Ground water sample at M/s U.P. Waste Management Project, Khumbhi Kanpur Dehat	26.363208, 79.863454
14.	Downstream Ground water sample at M/s Bharat Oil & Waste Management Pvt. Ltd. Khumbhi, Kanpur Dehat	26.36386, 79.86327
15.	Upstream Ground water sample at M/s Bharat Oil & Waste Management Pvt. Ltd. Khumbhi, Kanpur Dehat	26.364395, 79.865362

4.0. Inspection and Monitoring Activity in Fatehpur on 20.11.2024

1. Soil and ground water sampling near M/s MLMP Food Pvt. Ltd. Gadrauli, Fatehpur
2. Soil and ground water sampling at Gadrauli village, Fatehpur and nearby area.

S. N.	Sampling Details	Lat Long
Soil and ground water sampling near M/s MLMP Food Pvt. Ltd. Gadrauli, Fatehpur		
1.	Soil sample near M/s MLMP Food Pvt. Ltd. Gadrauli, Fatehpur	26.13889, 80.576808
2.	Ground water sample near M/s MLMP Food Pvt. Ltd. Gadrauli, Fatehpur	26.138945, 80.576887
Soil and ground water sampling at Gadrauli village, Fatehpur and nearby area		
3.	Ground water sample from Handpump of Shri. Virendra at Gadrauli village (120 feet depth)	26.150103, 80.565683
4.	Ground water sample from Handpump near Shitla Mata Mandir at Gadrauli village (120 feet depth)	26.150012, 80.566918
5.	Soil Sample near Pond Shitla Mata Mandir at Gadrauli village	26.150031, 80.567117
6.	Soil Sample at Ambuj Khera Marg	26.146061, 80.568192
7.	Soil Sample near railway line at Ambuj	26.14002, 80.565722

	Khera Marg	
8.	Waste sample at Mid of Baniyapur dumpsite Gadrauli (near Railway line)	26.139006, 80.562804
9.	Waste sample at back side on Baniyapur dumpsite Gadrauli (near Railway line)	26.139643, 80.562343
10.	Ground water sample from borewell (100 feet depth) at Ashapur Medical Collage (under construction)	26.194292, 80.550763
11.	Ground water sample from borewell (150 feet depth) at Flour mill (under construction)	26.195663, 80.553335

Above collected samples were analysed in the laboratory of CPCB and analysis report/results are tabulated as below:

**❖ Analysis report of monitoring at
Kanpur Nagar:**

**Table-1: Analysis report of ground water samples collected on 18.11.2024 at Golaghat, Rakhi Mandi, Rakhi Mandi Juhi Baburiya in
Kanpur Nagar**

Sr. No	Parameter	Unit						Drinking Water Standards (acceptable) as per BIS STD 10500:2012
			Hand Pump at Gola Ghat	Borewell at Rakhi mandi Baburiya (Old pump)	Borewell at Makan no 3 Rakhi mandi Baburiya (New pump)	Borewell at Rakhi mandi Afeem Kothi	Hand pump at Rakhi mandi Afeem Kothi Mandir)	
1	pH		7.97	7.86	7.88	7.33	7.21	6.5-8.5
2	Colour	Hazen	05	05	05	05	05	05
3	TDS	mg/L	353	1263	1193	1445	541	500
4	FDS	mg/L	233	1005	960	1317	524	--
5	Total Hardness	mg/L	323	628	633	750	350	200
6	Alkalinity	mg/L	329	424	502	517	508	200
7	Chloride (Cl ⁻)	mg/L	28.0	184	232	388	58.0	250
8	Fluoride (F ⁻)	mg/L	1.09	<0.5	<0.5	<0.5	<0.5	1.0
9	Sulphate (SO ₄ ⁻⁻)	mg/L	11.8	107	226	64.2	20.1	200
10	Nitrate (NO ₃ ⁻)	mg/L	2.74	221	208	119	<2.2	45

2599

Sr. No	Parameter	Unit						Drinking Water Standards (acceptable) as per BIS STD 10500:2012
			Hand Pump at Gola Ghat	Borewell at Rakhi mandi Baburiya (Old pump)	Borewell at Makan no 3 Rakhi mandi Baburiya (New pump)	Borewell at Rakhi mandi Afeem Kothi	Hand pump at Rakhi mandi Afeem Kothi Mandir)	
11	Nitrite (NO ₂ ⁻)	mg/L	<0.16	<0.16	<0.16	0.249	<0.16	--
12	COD	mg/L	<5	9.94	12.6	14.2	<5	--
13	Cadmium (Cd)	mg/L	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	0.003
14	Cobalt (Co)	mg/L	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	--
15	Chromium (Cr)	mg/L	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	0.05
16	Copper (Cu)	mg/L	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	0.05
17	Iron (Fe)	mg/L	<0.00067	<0.00067	1.07	<0.00067	6.512	0.3
18	Manganese (Mn)	mg/L	<0.00043	<0.00043	<0.00043	<0.00043	<0.00043	0.1
19	Nickel (Ni)	mg/L	<0.00054	<0.00054	<0.00054	<0.00054	<0.00054	0.02
20	Lead (Pb)	mg/L	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	0.01
21	Zinc (Zn)	mg/L	<0.00059	<0.00059	<0.00059	<0.00059	1.024	5
22	Arsenic (As)	mg/L	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	0.01
23	Mercury (Hg)	µg/L	3.14	2.32	1.57	2.46	0.49	1

2600

Table-2: Analysis results of STP samples collected on 18.11.2024 at Kanpur (130 MLD STP Jajmau, 36 MLD STP Jajmau, and STP Bhingwa)

S. No	Parameter	Unit	Inlet of STP (130 MLD) Jajmau	Outlet of STP (130 MLD) Jajmau	Inlet of STP (36 MLD) Jajmau	Outlet of STP (36 MLD) Jajmau	Outlet of STP Bhingwa	STD. NGT order dated 30.04.2019	MoEF&CC notification dated 13.10.2017
1	pH		7.49	8.07	7.55	7.62	7.72	5.5 – 9.0	5.5 – 9.0
2	Colour	Hazen	150	40	75	50	75	--	--
3	SS	mg/L	616	21.4	568	40.2	31.8	20	<100
4	Total Nitrogen	mg/L	44.5	40.7	40.7	54	36.2	10	--
5	Total Phosphorus	mg/L	2.54	1	2.27	1.86	4.43	1.0 [^]	--
6	Nitrate as N	mg/L	8.10	1.44	6.11	2.15	2.61	--	--
7	Nitrite as N	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	--	--
8	TKN	mg/L	36.4	39.3	34.6	51.8	33.6	--	--
9	O&G	mg/L	23.6	<5	26.2	30.2	7.22	--	--
10	COD	mg/L	342	110	344	143	61.3	50	--
11	BOD	mg/L	149	35.6	164	59	21.9	10	30
12	TC	MPN/100 ml	3.5x10 ⁸	<1.8	1.6x10 ⁹	1.3x10 ⁷	2.4x10 ⁶	--	--
13	FC	MPN/100 ml	1.7x10 ⁸	<1.8	1.7x10 ⁷	4.9x10⁶	1.3x10⁶	230	<1000

2601

Heavy Metal								
S. No	Parameter	Unit	Inlet of STP (130 MLD) Jajmau	Outlet of STP (130 MLD) Jajmau	Inlet of STP (36 MLD) Jajmau	Outlet of STP (36 MLD) Jajmau	Outlet of STP Bhingwa	
14	Cadmium (Cd)	mg/L	<0.00242	0.007	0.151	0.017	0.003	--
15	Cobalt (Co)	mg/L	<0.00161	<0.00161	0.005	<0.00161	<0.00161	--
16	Chromium (Cr)	mg/L	0.006	0.269	1.795	1.305	0.02	--
17	Copper (Cu)	mg/L	0.015	0.014	0.157	0.024	0.015	--
18	Iron (Fe)	mg/L	0.904	0.372	10.41	0.550	0.749	--
19	Manganese (Mn)	mg/L	0.152	0.09	0.408	0.085	0.099	--
20	Nickel (Ni)	mg/L	<0.00488	0.1	0.017	<0.00488	0.015	--
21	Lead (Pb)	mg/L	0.006	<0.00632	0.024	<0.00632	0.007	--
22	Zinc (Zn)	mg/L	0.042	0.244	0.244	0.287	0.108	--
23	Arsenic (As)	mg/L	<0.0146	<0.0146	<0.0146	<0.0146	<0.0146	--
24	Mercury (Hg)	µg/L	1.809	5.143	1.902	2.363	<0.9	--

* As per NGT order dated 30.04.2019 in OA No. 1069/2018

** As per MoEF&CC notification dated 13.10.2017

^ Not applicable – as the discharge is not into a pond or lake

Table-3: Analysis results of outlet of 20 MLD CETP Jajmau, Kanpur Nagar and irrigation channel sample collected on 18.11.2024: -

S. No	Parameter	Unit	Outlet of 20 MLD CETP	Irrigation Canal	CETP STD. as MoEF&CC Notification
1	pH		6.75	7.48	6-9
2	Colour	Hazen	150	50	--
3	SS	mg/L	16.9	31.2	100
4	TDS	mg/L	11787	2029	2100
5	FDS	mg/L	NA	1939	--
6	Chloride	mg/L	9068	616	1000
7	Sulphide	mg/L	<1.0	NA	2
8	Phosphate as P	mg/L	<0.5	<0.5	5
10	Ammonical Nitrogen	mg/L	58.2	55.9	50
11	O&G	mg/L	<5.0	6.39	10
12	COD	mg/L	428	97.6	250
13	BOD	mg/L	98.7	29.6	30
14	Cr-VI	mg/L	<0.1	<0.1	0.1
15	TC	MPN/100 ml	NA	2.2x10 ⁶	-
16	FC	MPN/100 ml	NA	2.1x10 ⁵	-
15	Cadmium (Cd)	mg/L	<0.00242	0.010	0.05
16	Chromium (Cr)	mg/L	0.785	0.589	2
17	Copper (Cu)	mg/L	0.029	0.018	3
18	Manganese (Mn)	mg/L	0.077	0.079	2
19	Nickel (Ni)	mg/L	<0.00488	0.006	3
20	Lead (Pb)	mg/L	<0.00632	<0.00632	0.1
21	Zinc (Zn)	mg/L	0.077	0.046	5
22	Arsenic (As)	mg/L	<0.0146	<0.0146	0.2

Table-4: Analysis results Gola Ghat Drain before confluence to River Ganga sample collected on 18.11.2024: -

S. No	Parameter	Unit	Gola Ghat Drain
1	pH		7.40
2	Colour	Hazen	50
3	SS	mg/L	132
4	TDS	mg/L	849
5	Chloride	mg/L	128
6	Sulphate	mg/L	49.1
7	Phosphate	mg/L	4.45
8	Nitrate as N	mg/L	2.0
9	Nitrite as N	mg/L	<0.05
10	Ammonium Nitrogen	mg/L	29.7
11	COD	mg/L	207
12	BOD	mg/L	107
13	TC	MPN/100 ml	7.9×10^{10}
14	FC	MPN/100 ml	4.9×10^{10}
15	Cadmium (Cd)	mg/L	<0.00242
16	Cobalt (Co)	mg/L	<0.00161
17	Chromium (Cr)	mg/L	0.006
18	Copper (Cu)	mg/L	0.008
19	Iron (Fe)	mg/L	0.649
20	Manganese (Mn)	mg/L	0.077
21	Nickel (Ni)	mg/L	<0.00488
22	Lead (Pb)	mg/L	<0.00632
23	Zinc (Zn)	mg/L	0.617
24	Arsenic (As)	mg/L	<0.0146
25	Mercury (Hg)	$\mu\text{g/L}$	0.1

Table-5: Analysis results of silt & sludge samples collected on 18.11.2024 at 210 MLD STP Bhingwa, 130 MLD STP Jajmau and silt at Rakhimandi Baburiya

Sr. N.	Parameter	Unit	210 MLD STP Bhingwa	130 MLD STP Jajmau	Silt at Rakhimandi Baburiya
1	Cadmium (Cd)	mg/g	BDL	BDL	BDL
2	Cobalt (Co)	mg/g	0.03	0.089	0.019
3	Chromium (Cr)	mg/g	0.079	15.11	0.016
4	Chromium-VI (Cr ⁶⁺)	mg/g	BDL	BDL	BDL
5	Copper (Cu)	mg/g	0.021	0.025	0.026
6	Iron (Fe)	mg/g	19.48	14.6	5.24
7	Manganese (Mn)	mg/g	1.12	0.047	0.089
8	Nickel (Ni)	mg/g	0.015	0.068	0.023
9	Lead (Pb)	mg/g	0.001	0.009	0.002
10	Zinc (Zn)	mg/g	0.078	0.054	0.096
11	Arsenic (As)	mg/g	BDL	0.024	0.019
12	Mercury (Hg)	µg/g	0.736	1.867	0.306

BDL: Below detection limit for used instrument.

2605

❖ Kanpur Dahat:

Table-6: Analysis results of ground water samples collected on 19.11.2024 near hazardous waste dump site Rania, Khanchandpur Village and Hazardous Waste management site of M/s UP Waste Management Project Pvt. Ltd. (Ramkey) & M/s Bharat Oil & Waste Management Limited in Kanpur Dehat

Sr. No	Parameter	Unit	Location								Drinking Water Standards (acceptable) as per BIS STD 10500:2012
			Borewell at Natraj polyplast	Borewell in VD Paper	Hand pump u/s Khanchandpur	Hand pump D/s Khanchandpur	Borewell D/s Ramky	Borewell U/s Ramky	Borewell D/s Bharat Oil	Borewell U/s Bharat Oil	
1	pH		7.00	7.18	7.43	7.32	7.28	7.59	6.83	7.26	6.5-8.5
2	Colour	Hazen	250	300	05	05	05	25	05	05	05
3	TDS	mg/L	5364	5265	3873	303	462	263	826	406	500
4	FDS	mg/L	4821	4393	2922	239	304	257	633	291	--
5	Total Hardness	mg/L	374	580	248	309	327	842	773	1761	200
6	Alkalinity	mg/L	537	539	393	446	457	840	841	888	200
7	Chloride (Cl ⁻)	mg/L	31.0	25.0	41.0	65.0	29.0	526	487	271	250
8	Floride (F ⁻)	mg/L	0.63	1.17	0.92	1.23	0.66	1.01	0.77	0.56	1.0
9	Sulphate (SO ₄ ²⁻)	mg/L	66.4	168	43.6	48.0	48.5	1162	808	561	200
10	Nitrate(NO ₃)	mg/L	15.5	14.6	6.97	74.8	<2.2	68.5	224	564	45

2606

Sr. No	Parameter	Unit	Location								Drinking Water Standards (acceptable) as per BIS STD 10500:2012
			Borewell at Natraj polyplast	Borewell in VD Paper	Hand pump u/s Khanchandpur	Hand pump D/s Khanchandpur	Borewell D/s Ramky	Borewell U/s Ramky	Borewell D/s Bharat Oil	Borewell U/s Bharat Oil	
11	Nitrite(NO ₂)	mg/L	<0.16	<0.16	<0.16	<0.16	<0.16	0.348	<0.16	<0.16	--
12	COD	mg/L	<5	<5	6.81	12.0	10.7	81.1	74.6	48.4	--
13	Cadmium (Cd)	mg/L	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	0.003
14	Cobalt (Co)	mg/L	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	--
15	Chromium (Cr)	mg/L	12.719	17.832	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	0.05
16	Copper (Cu)	mg/L	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	0.05
17	Iron (Fe)	mg/L	<0.00067	<0.00067	<0.00067	<0.00067	1.219	<0.00067	<0.00067	<0.00067	0.3
18	Manganese (Mn)	mg/L	<0.00043	<0.00043	<0.00043	<0.00043	<0.00043	<0.00043	<0.00043	<0.00043	0.1
19	Nickel (Ni)	mg/L	<0.00054	<0.00054	<0.00054	<0.00054	<0.00054	<0.00054	<0.00054	<0.00054	0.02
20	Lead (Pb)	mg/L	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	0.01
21	Zinc (Zn)	mg/L	<0.00059	<0.00059	<0.00059	<0.00059	<0.00059	<0.00059	<0.00059	<0.00059	5
22	Arsenic (As)	mg/L	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	0.01
23	Mercury (Hg)	µg/L	6.21	2.10	7.74	34.94	2.06	1.26	1.85	14.70	1

**Table-7: Analysis results of Noon River sample collected on 19.11.2024 near toll plaza
Rania, Kanpur Dehat**

Sr. No	Parameter	Unit	Noon River near Toll Plaza Rania
1.	pH		7.20
2.	Temperature	^o C	23.0
3.	Colour	Hazen	35
4.	Conductivity	μ S/cm	876
5.	Total Hardness	mg/L	430
6.	Sulphate (SO ₄ ⁻)	mg/L	171
7.	Boron	mg/L	<0.5
8.	SAR	--	3.63
9.	DO	mg/L	Nil
10.	COD	mg/L	130
11.	BOD	mg/L	38.6
12.	T. Coliforms	MPN/100 ml	1.6x10 ⁸
13.	F. Coliforms	MPN/100 ml	3.5x10 ⁷
14.	Cadmium (Cd)	mg/L	<0.00042
15.	Cobalt (Co)	mg/L	<0.00035
16.	Chromium (Cr)	mg/L	<0.00056
17.	Copper (Cu)	mg/L	<0.00035
18.	Iron (Fe)	mg/L	<0.00067
19.	Manganese (Mn)	mg/L	<0.00043
20.	Nickel (Ni)	mg/L	<0.00054
21.	Lead (Pb)	mg/L	<0.00031
22.	Zinc (Zn)	mg/L	<0.00059
23.	Arsenic (As)	mg/L	<0.00049
24.	Mercury (Hg)	μ g/L	2.74

**Table-8: Analysis results of Surface water collected at Rania Dump site on dated
19.11.2024: -**

Sr. No	Parameter	Unit	Surface water collected at Rania Dump site
1	Cadmium (Cd)	mg/L	<0.00242
2	Cobalt (Co)	mg/L	0.007
3	Chromium (Cr)	mg/L	0.586
4	Chromium-VI (Cr ⁶⁺)	mg/L	<0.1
5	Copper (Cu)	mg/L	0.026
6	Iron (Fe)	mg/L	10.84
7	Manganese (Mn)	mg/L	0.164
8	Nickel (Ni)	mg/L	0.011
9	Lead (Pb)	mg/L	0.011
10	Zinc (Zn)	mg/L	0.053
11	Arsenic (As)	mg/L	<0.0146
12	Mercury (Hg)	µg/L	2.194

Table-9: Analysis results of Soil, Waste & Ash samples collected from Rania dumpsite & nearby village Khan chandpur on 19.11.2024:-

Sr. No	Parameter	Unit	Soil Near Road (Lift side of dumpsite)	Soil Near Road (Right side in Dumpsite)	Soil & Ash from Dumpsite	Soil from backside of dumpsite	Soil from wet area of dumpsite	Ash from Khanchandpur village road site
1	Cadmium (Cd)	mg/g	BDL	BDL	BDL	BDL	BDL	BDL
2	Cobalt (Co)	mg/g	0.021	0.054	0.038	0.037	0.013	0.001
3	Chromium (Cr)	mg/g	10.88	36.97	39.47	29.10	2.63	0.001
4	Chromium-VI (Cr ⁶⁺)	mg/g	5.53	23.60	0.03	14.26	0.002	BDL
5	Copper (Cu)	mg/g	0.023	0.025	0.024	0.026	0.008	0.002
6	Iron (Fe)	mg/g	13.20	9.650	18.09	31.27	6.76	0.020
7	Manganese (Mn)	mg/g	0.054	0.099	1.080	0.047	0.017	0.147
8	Nickel (Ni)	mg/g	0.098	0.065	0.140	0.090	0.030	0.002
9	Lead (Pb)	mg/g	0.085	0.009	0.008	0.012	0.003	BDL
10	Zinc (Zn)	mg/g	0.036	0.080	0.059	0.058	0.194	0.022
11	Arsenic (As)	mg/g	0.015	BDL	0.004	0.035	0.002	BDL
12	Mercury (Hg)	µg/g	2.406	1.306	1.020	0.580	0.770	3.380

BDL: Below detection limit for used instrument

❖ **Analysis report of monitoring at Fatehpur:****Table-10: Analysis results of 05 ground water samples near hazardous waste dump site and Gadrauli Village at Fatehpur samples collected on 20.11.2024:**

Sr. No	Parameter	Unit	Location					Drinking Water Standards (acceptable) as per BIS STD 10500:2012
			Near MLMP Food (Industry Dump Site)	Hand pump near Sh.Virendra House, Gadrauli	Hand pump near Sheetla Mata Mandir (Pond) Gadrauli	Borewell at Ashapur Medical Hospital	Borewell of Maida Mill	
1	pH		7.01	7.08	6.84	7.04	7.31	6.5-8.5
2	Colour	Hazen	05	10	250	500	05	05
3	TDS	mg/L	927	818	1734	1479	845	500
4	FDS	mg/L	793	738	1487	1400	783	--
5	Total Hardness	mg/L	516	412	610	580	256	200
6	Alkalinity	mg/L	586	472	573	583	497	200
7	Chloride (Cl ⁻)	mg/L	40.0	108	241	360	69.0	250
8	Floride (F ⁻)	mg/L	1.33	0.99	<0.5	1.31	0.56	1.0
9	Sulphate (SO ₄ ⁻⁻)	mg/L	17.8	59.1	207	131	39.7	200
10	Nitrate (NO ₃ ⁻)	mg/L	37.9	30.9	165	30.2	12.8	45
11	Nitrite (NO ₂ ⁻)	mg/L	<0.16	<0.16	<0.16	<0.16	<0.16	--
12	COD	mg/L	<5	<5	5.70	<5	<5	--

2611

Sr. No	Parameter	Unit	Location					Drinking Water Standards (acceptable) as per BIS STD 10500:2012
			Near MLMP Food (Industry Dump Site)	Hand pump near Sh.Virendra House, Gadrauli	Hand pump near Sheetla Mata Mandir (Pond) Gadrauli	Borewell at Ashapur Medical Hospital	Borewell of Maida Mill	
13	Cadmium (Cd)	mg/L	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	0.003
14	Cobalt (Co)	mg/L	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	--
15	Chromium (Cr)	mg/L	<0.00056	<0.00056	16.572	31.909	<0.00056	0.05
16	Copper (Cu)	mg/L	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	0.05
17	Iron (Fe)	mg/L	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.3
18	Manganese (Mn)	mg/L	<0.00043	<0.00043	<0.00043	<0.00043	<0.00043	0.1
19	Nickel (Ni)	mg/L	<0.00054	<0.00054	<0.00054	<0.00054	<0.00054	0.02
20	Lead (Pb)	mg/L	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	0.01
21	Zinc (Zn)	mg/L	<0.00059	<0.00059	<0.00059	<0.00059	<0.00059	5
22	Arsenic (As)	mg/L	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	0.01
23	Mercury (Hg)	µg/L	0.68	0.41	1.09	1.46	0.27	1

2612

Table-11: Analysis results of Soil & Waste Samples collected from Village Gadrauli & nearby and Baniyakhera dump site on 20.11.2024: -

Sr. No	Parameter	Unit	Soil Near Road (near MLMP Factory)	Soil near pond Sheetla mata mandir Gadrauli	Soil on the Baniyakhera ambuj nagar road	Soil near railway crossing Baniyakhera ambuj nagar road	Waste Baniyapur dumpsite (mid-point)	Waste Baniyapur dumpsite (back side)
1	Cadmium (Cd)	mg/g	BDL	BDL	BDL	BDL	BDL	BDL
2	Cobalt (Co)	mg/g	0.076	0.144	0.105	0.021	0.135	0.014
3	Chromium (Cr)	mg/g	21.800	17.980	21.27	52.50	31.32	25.52
4	Chromium-VI (Cr ⁶⁺)	mg/g	12.0	2.93	6.66	20.24	19.05	22.37
5	Copper (Cu)	mg/g	0.009	0.008	0.006	0.016	0.009	0.024
6	Iron (Fe)	mg/g	35.40	40.07	45.22	18.59	70.45	18.78
7	Manganese (Mn)	mg/g	0.056	1.275	0.100	0.298	1.195	0.310
8	Nickel (Ni)	mg/g	0.240	1.17	0.690	0.040	1.040	0.030
9	Lead (Pb)	mg/g	0.004	0.002	0.004	0.007	0.006	0.010
10	Zinc (Zn)	mg/g	0.066	0.114	0.055	0.045	0.083	0.039
11	Arsenic (As)	mg/g	0.020	0.013	0.018	0.064	0.026	0.035
12	Mercury (Hg)	µg/g	0.870	0.590	0.570	1.000	0.810	0.760

BDL: Below detection limit for used instrument

2613

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला

Central Pollution Control Board Zonal Laboratory

Doc No. CB/ZLN/QR/7.8/1/1

Issue No. : 01

Date of Issue : 16.08.2022

Page No. : 1 of 1

Amendment no. : 02/05

Amendment Date: 11/06/2024

Approved by : TM

Issued by: QM

पिकप भवन , विभूति खण्ड, गोमती नगर, लखनऊ

PICUP Bhawan, Vibhuti Khand, Gominagar, Lucknow

फ़ोन : 0522 : 4087600, 4087700

Phone : 0522- 4087600, 4087700



Fresh water
TEST REPORT

S.No: F/2024/235

1	Date of test report:06/12/2024	Date/period of testing:19-27/11/2024
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्थान/स्रोत(भूजल/सरिता/अन्य)Sample Location/Source(GW/River/others)	GW
3	नमूने का प्रकार /ग्रैब/कम्पोजिट/Type of Sample (Grab/Composite)	Grab
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Sh. Lalji Verma, RA
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	18/11/2024
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	19/11/2024
7	नमूना एकत्रण पद्धति/Sampling procedure	CB/ZLN/SOP/7.3/2 & CB/ZLN/SOP/B/7.4/1
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. Arvind Kumar, Scientist 'C'

क्रम सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.				
			KG-1	KG-2	KG-3	KG-4	KG-5
1.	पी एच/ pH		7.97 (29.7°C)	7.86 (26.0°C)	7.88 (25.4°C)	7.33 (25.2°C)	7.21 (25.3°C)
2.	रंग/ Colour	हैज़न/ Hazen	05	05	05	05	05
3.	टी डी एम/ TDS	मि.ग्रा./ली. mg/L	353	1263	1193	1445	541
4.	एफ़ डी एम/ FDS	मि.ग्रा./ली. mg/L	233	1005	960	1317	524
5.	कुल कठोरता/ Total Hardness	मि.ग्रा./ली. mg/L	323	628	633	750	350
6.	एल्कलिनिटी/ Alkalinity	मि.ग्रा./ली. mg/L	329	424	502	517	508
7.	क्लोराइड/ Chloride as Cl	मि.ग्रा./ली. mg/L	28.0	184	232	388	58.0
8.	फ्लोराइड/ Floride as F	मि.ग्रा./ली. mg/L	1.09	BDL	BDL	BDL	BDL
9.	सल्फ़ेट/ Sulphate as SO ₄ ²⁻	मि.ग्रा./ली. mg/L	11.8	107	226	64.2	20.1
10.	नाइट्रेट/ Nitrate (NO ₃)	मि.ग्रा./ली. mg/L	2.74	221	208	119	BDL
11.	नाइट्राइट/ Nitrite (NO ₂)	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	0.249	BDL
12.	सी ओ डी / COD	मि.ग्रा./ली. mg/L	BDL	9.94	12.6	14.2	BDL
13.	क्रोमियम हेक्सम./ Chromium-VI	मि.ग्रा./ली. mg/L	NA	BDL	BDL	BDL	BDL

विश्लेषण विधि हेतु कृ.प.उ./Test methods followed are appended overleaf

CODE	Description
KG-1	Handpump Golaghat
KG-2	Borewell Rakhi Mandi Baburiyaha Old
KG-3	Borewell Rakhi Mandi Baburiyaha New
KG-4	Borewell Rakhi Mandi Afeem Kothi
KG-5	Handpump Rakhi Mandi Afeem Kothi

Page.....1/2

Poonam
8/12/24
(Poonam Pandey)

Anamika
06/12/2024
(डॉ० अनामिका सिंह)
बैज्ञानिक 'ग' एवं प्रभासी प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

Note : 1. The results in the Test Report relate only to the items tested ; 2. The report shall not be reproduced except in full, without the written permission of laboratory.

2614

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला Central Pollution Control Board Zonal Laboratory

Doc No. CB/ZLN/QR/7.8/1/1	Issue No. : 01	Date of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Date: 11/06/2024	Approved by : TM	Issued by: QM

Parameters	Test Method	Detection Range
Colour	APHA 2120-B, 23 rd Ed. 2017	5 – 100 Hazen
pH	APHA 4500 H ⁺ -B, 23 rd Ed. 2017	2- 12
Total Dissolved Solids	APHA 2540 C, 23 rd Ed. 2017	2.5 mg/L – 5000 mg/L
Chemical Oxygen Demand (COD)	APHA 5220 B, 23 rd Ed. 2017	5 mg/L – 500 mg/L
Nitrate	APHA 4500 – NO ₃ – B, 23 rd Ed. 2017 (Ultraviolet Spectrophotometric Method)	2.2 mg/L -265 mg/L
Nitrite	APHA 4500-NO ₂ -B, 23 rd Ed. 2017	0.16 mg/L-164 mg/L
Sulphate	APHA 4500-SO ₄ ²⁻ E, 23 rd Ed. 2017	2.0 mg/L- 250 mg/L
Chloride	APHA 4500-Cl B, 23 rd Ed. 2017	3.0 mg/L- 2000 mg/L
Fluoride	APHA 4500-F C, 23 rd Ed. 2017 (Ion Selective Electrode Method)	0.5 - 10 mg/L
Hardness Total	APHA 2340-C, 23 rd Ed. 2017	5.0 - 2000mg/L
Alkalinity	APHA 2320-B, 23 rd Ed. 2017	2.0 mg/L- 2500 mg/L
Chromium - VI	APHA 3500-Cr B, 23 rd Ed. 2017	0.1 - 5 mg/L

1. APHA - American Public Health Association
2. IS – Indian Standard
3. BDL = Below Detection Limit (Less then lower detection range mentioned in above table)

End of Test Report

Page.....2/2

Poonam
6/12/24
(Poonam Pandey)

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

Anamika
06/12/2024
(डॉ० अनामिका सिंह)
वैज्ञानिक 'ग' एच प्रभासी प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

2615

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला Central Pollution Control Board Zonal Laboratory

Doc No. CB/ZLN/QR/7.8/1/1 Issue No. : 01 Date of Issue : 16.08.2022 Page No. : 1 of 1
Amendment no. : 02/05 Amendment Date: 11/06/2024 Approved by : TM Issued by: QM

पिकप भवन , विभूति खण्ड, गोमती नगर, लखनऊ

PICUP Bhawan, Vibhuti Khand, Gomtinagar, Lucknow

फ़ोन : 0522 : 4087600, 4087700

Phone : 0522- 4087600, 4087700

Fresh water
TEST REPORT

S.No: F/2024/235(HM)

1	Date of test report:06/01/2025	Date/period of testing:20/11-17/12/2024
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्थान/स्रोत(भूजल/सरिता/अन्य)Sample Location/Source(GW/River/others)	GW
3	नमूने का प्रकार /शैव/कम्पोजिट/Type of Sample (Grab/Composite)	Grab
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Sh. Lalji Verma, RA
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	18/11/2024
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	19/11/2024
7	नमूना एकत्रण पद्धति/Sampling procedure	CB/ZLN/SOP/7.3/2 & CB/ZLN/SOP/B/7.4/1
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. Arvind Kumar, Scientist 'C'

क्रम सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.				
			KG-1	KG-2	KG-3	KG-4	KG-5
1	कैडमियम /Cd	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
2	कोबाल्ट /Co	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
3	क्रोमियम /Cr	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
4	कॉपर /Cu	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
5	आयरन /Fe	मि.ग्रा./ली. mg/L	BDL	BDL	1.07	BDL	6.512
6	मैंगनीज /Mn	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
7	निकल /Ni	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
8	लैड /Pb	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
9	ज़िंक /Zn	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	1.024
10	आर्सेनिक /As	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
11	मरकरी /Hg	माइक्रोग्रा./ली. µg/L	3.14	2.32	1.57	2.46	0.49

विश्लेषण विधि हेतु कृ.प.उ./Test methods followed are appended overleaf

CODE	Description
KG-1	Handpump Golaghat
KG-2	Borewell Rakhi Mandi Baburiyaha Old
KG-3	Borewell Rakhi Mandi Baburiyaha New
KG-4	Borewell Rakhi Mandi Afeem Kothi
KG-5	Handpump Rakhi Mandi Afeem Kothi

End of Test Report

Poonam
6/1/25
(Poonam Pandey)

Anamika
06/01/25
(डॉ० अनामिका सिंह)
वैज्ञानिक 'ग' एच प्रभारी प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

Note : 1. The results in the Test Report relate only to the items tested : 2. The report shall not be reproduced except in full, without the written permission of laboratory.

Parameters	Test Method	Below Detection Limit
Cadmium (Cd)	APHA 3111 A+B, 23 rd Ed. 2017	0.00042 mg/L
Cobalt (Co)	APHA 3111 A+B, 23 rd Ed. 2017	0.00035 mg/L
Chromium (Cr)	APHA 3111 A+B, 23 rd Ed. 2017	0.00056 mg/L
Copper (Cu)	APHA 3111 A+B, 23 rd Ed. 2017	0.00035 mg/L
Iron (Fe)	APHA 3111 A+B, 23 rd Ed. 2017	0.00067 mg/L
Manganese (Mn)	APHA 3111 A+B, 23 rd Ed. 2017	0.00043 mg/L
Nickel (Ni)	APHA 3111 A+B, 23 rd Ed. 2017	0.00054 mg/L
Lead (Pb)	APHA 3111 A+B, 23 rd Ed. 2017	0.00031 mg/L
Zinc (Zn)	APHA 3111 A+B, 23 rd Ed. 2017	0.00059 mg/L
Arsenic (As)	APHA 3111 A+B, 23 rd Ed. 2017	0.00049 mg/L
Mercury (Hg)	USEPA-7473	0.9 µg/L

1. APHA - American Public Health Association
2. IS – Indian Standard

2617

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला Central Pollution Control Board Zonal Laboratory			
Doc No. CB/ZLN/QR/7.8/2/1	Issue No. : 01	Dt of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Dt: 11/06/2024	Approved by : TM	Issued by: QM

पिकप भवन , विभूति खण्ड, गोमती नगर, लखनऊ
फ़ोन : 0522 : 4087600,4087700

PICUP Bhawan, Vibhuti Khand, Gomtinagar, Lucknow
Phone : 0522- 4087600,4087700



S.No. W/2024/289

WASTEWATER TEST REPORT

Date of test report:04/12/2024	Date/period of testing:19-27/11/2024
1 परियोजना /Project/Test Programme	NGT
2 नमूने का स्रोत /भूजल /सरिता /अन्य/Sample Source (STP/ETP/Drain/any other)	Drain/ STP/ CETP
3 नमूने का प्रकार /गैब/कम्पोजिट/Type of Sample (Grab/Composite)	Grab
4 नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Sh. Lalji Verma, RA
5 नमूना एकत्रीकरण की तिथि/Date of Sample collection	18/11/2024
6 प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	19/11/2024
7 नमूना एकत्रण पद्धति/Sampling procedure.....Please Refer.....	CB/ZLN/SOP/7.3/2 & CB/ZLN/SOP/B/7.4/2 Issue No. 01
8 विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. Arvind Kumar, Scientist 'C'

क्रम सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.							
			KD-1	STP-2	STP-1	STP-3	STP-4	STP-5	CETP-1	IC-1
1.	पी एच/ pH		7.40 (26.3°C)	7.72 (26.4°C)	8.07 (26.1°C)	7.62 (26.5°C)	7.49 (25.9°C)	7.55 (26.0°C)	6.75 (26.2°C)	7.48 (26.1°C)
2.	रंग/ Colour	हैज़न/ Hazen	50	75	40	50	150	75	150	50
3.	एस.एस./ SS	मि. ग्रा./ली. mg/L	132	31.8	21.4	40.2	616	568	16.9	31.2
4.	टी.डी.एस./ TDS	मि. ग्रा./ली. mg/L	849	NA	NA	NA	NA	NA	11787	2029
5.	एफ.डी.एस./ FDS	मि. ग्रा./ली. mg/L	NA	NA	NA	NA	NA	NA	NA	1939
6.	क्लोराइड/ Chloride as Cl	मि. ग्रा./ली. mg/L	128	NA	NA	NA	NA	NA	9068	616
7.	सल्फेट/ Sulphate as SO ₄ ²⁻	मि. ग्रा./ली. mg/L	49.1	NA	NA	NA	NA	NA	NA	NA
8.	सल्फाइड/ Sulphide as S ²⁻	मि. ग्रा./ली. mg/L	NA	NA	NA	NA	NA	NA	BDL	NA
9.	कुल नाइट्रोजन / Total Nitrogen	मि. ग्रा./ली. mg/L	NA	36.2	40.7	54.0	44.5	40.7	NA	NA
10.	कुल फास्फोरस / Total Phosphorus	मि. ग्रा./ली. mg/L	NA	4.43	1.00	1.86	2.54	2.27	NA	NA
11.	फॉस्फेट/ Phosphate as P (PO ₄ -P)	मि. ग्रा./ली. mg/L	NA	NA	NA	NA	NA	NA	BDL	BDL
12.	फॉस्फेट/ Phosphate (PO ₄ ³⁻)	मि. ग्रा./ली. mg/L	4.45	NA	NA	NA	NA	NA	NA	NA
13.	नाइट्रेट/ Nitrate as N (NO ₃ -N)	मि. ग्रा./ली. mg/L	2.00	2.61	1.44	2.15	8.10	6.11	NA	NA
14.	नाइट्रेट/ Nitrate (NO ₃ ⁻)	मि. ग्रा./ली. mg/L	NA	NA	NA	NA	NA	NA	581	38.6
15.	नाइट्राइट/ Nitrite as N (NO ₂ -N)	मि. ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA
16.	अमोनिकल नाइट्रोजन/ Ammonical Nitrogen (NH ₃ -N)	मि. ग्रा./ली. mg/L	NA	NA	NA	NA	NA	NA	58.2	55.9
17.	अमोनियम नाइट्रोजन/ Ammonium Nitrogen (NH ₄ -N)	मि. ग्रा./ली. mg/L	29.7	NA	NA	NA	NA	NA	NA	NA
18.	टी.के.एन./ T.K.N.	मि. ग्रा./ली. mg/L	NA	33.6	39.3	51.8	36.4	34.6	NA	NA
19.	ऑयल व ग्रीस/ Oil & Grease	मि. ग्रा./ली. mg/L	NA	7.22	BDL	30.2	23.6	26.2	BDL	6.39
20.	सी.ओ.डी. / COD	मि. ग्रा./ली. mg/L	207	61.3	110	143	342	344	428	97.6
21.	बी.ओ.डी. / BOD	मि. ग्रा./ली. mg/L	107	21.9	35.6	59.0	149	164	98.7	29.6
22.	क्रोमियम हेक्स./ Chromium-VI	मि. ग्रा./ली. mg/L	NA	NA	NA	NA	NA	NA	BDL	BDL
23.	कुल कॉलीफॉर्म /T-Coliforms	MPN/100ml	7.9x10 ¹⁰	2.4x10 ⁶	<1.8	1.3x10 ⁷	3.5x10 ⁸	1.6x10 ⁹	NA	2.2x10 ⁶
24.	फीकल कॉलीफॉर्म/F-Coliforms	MPN/100ml	4.9x10 ¹⁰	1.3x10 ⁶	<1.8	4.9x10 ⁶	1.7x10 ⁸	1.7x10 ⁷	NA	2.1x10 ⁵

विश्लेषण विधि हेतु कृ.प.उ./Test methods followed are appended overleaf

CODE	Description
KD-1	Golaghat Drain
STP-2	Outlet of STP Bingawan
STP-1	Outlet 130 MLD STP Jajmau
STP-3	Outlet of 36 MLD CETP Jajmau
STP-4	Inlet of 130 MLD STP Jajmau
STP-5	Inlet of 36 MLD CETP Jajmau
CETP-1	Outlet of 20 MLD CETP Jajmau
IC-1	Irrigation Canal

Page.....1/2

Poonam Pandey
(Poonam Pandey)

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

Anamika Singh
(डॉ० अनामिका सिंह)
वैज्ञानिक 'ग' एवं प्रभारी प्रयोगशाला
के० प्र० मि० बोर्ड, लखनऊ

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

Note : 1. The results in the Test Report relate only to the items tested : 2. The report shall not be reproduced except in full, without the written permission of laboratory.

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला		Central Pollution Control Board Zonal Laboratory	
Doc No. CB/ZLN/QR/7.8/2/1	Issue No. : 01	Dt of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Dt: 11/06/2024	Approved by : TM	Issued by: QM

Parameters	Test Method	Detection Range
Colour	APHA 2120-B, 23 rd Ed. 2017	5 – 20000 Hazen
pH	APHA 4500 H ⁺ -B, 23 rd Ed. 2017	2- 12
Suspended solids	APHA 2540 D, 23 rd Ed. 2017	2.5 mg/L - 10,000 mg/L
Total Dissolved Solids	APHA 2540 C, 23 rd Ed. 2017	2.5 mg/L- 100 g/L
Chemical Oxygen Demand (COD)	APHA 5220 B, 23 rd Ed. 2017	5 mg/L - 100000 mg/L
Biochemical Oxygen demand (BOD)	APHA 5210 B, 23 rd Ed. 2017 4500 OC, 23 rd Ed. 2017 IS-3025 part 44; 1993 Biochemical Oxygen Demand	5.0 mg/L - 50000 mg/L
Nitrate Nitrogen	APHA 4500 – NO ₃ ⁻ – B, 23 rd Ed. 2017 (Ultraviolet Spectrophotometric Method)	0.5 mg/L-100mg/L
Nitrate	APHA 4500 – NO ₃ ⁻ – B, 23 rd Ed. 2017 (Ultraviolet Spectrophotometric Method)	2.2 mg/L - 442 mg/L
Nitrite Nitrogen	APHA 4500-NO ₂ ⁻ -B, 23 rd Ed. 2017	0.05 mg/L- 50 mg/L
Total Nitrogen	By calculation	----
Total Phosphorus	APHA 4500-PD, 23 rd Ed. 2017	0.5 mg/L-100 mg/L
Ammonical Nitrogen	APHA 4500-NH ₃ -F, 23 rd Ed. 2017 (Phenate Method)	0.5mg/L- 200 mg/L
Ammonium Nitrogen	APHA 4500-NH ₃ -F, 23 rd Ed. 2017 (Phenate Method)	0.5 mg/L- 200 mg/L
Oil and grease	APHA 5520-B, 23 rd Ed. 2017	5 - 1000 mg/L
Phosphate	APHA 4500-PD, 23 rd Ed. 2017	1.5 mg/L- 307 mg/L
Phosphate as P	APHA 4500-PD, 23 rd Ed. 2017	0.5 mg/L-100 mg/L
Sulphate	APHA 4500-SO ₄ ²⁻ E, 23 rd Ed. 2017	2.0 mg/L - 500 mg/L
Chloride	APHA 4500-Cl B, 23 rd Ed. 2017	3.0 -10,000 mg/L
Sulphide	APHA 4500 S ²⁻ F, 23 rd Ed. 2017	1.0 mg/L - 50 mg/L
TKN	APHA 4500-N _{org} B, 23 rd Ed. 2017	0.5 mg/L - 80 mg/L
Chromium - VI	APHA 3500-Cr B, 23 rd Ed. 2017	0.1 - 20 mg/L
Total Coliform	APHA 23rd Ed. 2017, 9221-A,B &C	1.8 - >1600 MPN/100 mL
Fecal Coliform	APHA 23rd Ed. 2017, 9221-C (2), 9221 E	1.8 - >1600 MPN/100 mL


1. APHA – American Public Health Association
2. IS – Indian Standard
3. BDL = Below Detection Limit (Less then lower detection range mentioned in above table)

End of Test Report

Page.....2/2


(Poonam Pandey)

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)


05/12/2024
(डॉ० अनामिका सिंह)
वैज्ञानिक 'ग' एब प्रमाणी प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला Central Pollution Control Board Zonal Laboratory			
Doc No. CB/ZLN/QR/7.8/2/1	Issue No. : 01	Dt of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Dt: 11/06/2024	Approved by : TM	Issued by: QM

पिकप भवन , विभूति खण्ड, गोमती नगर, लखनऊ
फ़ोन : 0522 : 4087600,4087700

PICUP Bhawan, Vibhuti Khand, Gomatnagar, Lucknow
Phone : 0522- 4087600,4087700



WASTEWATER
TEST REPORT

S.No. W/2024/289(HM)

1	Date of test report:06/01/2025	Date/period of testing:25/11-17/12/2024
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्रोत /भूजल /मरिना /अन्य/Sample Source (STP/ETP/Drain/any other)	Drain/ STP/ CETP
3	नमूने का प्रकार /गैब/कम्पोजिट/Type of Sample (Grab/Composite)	Grab
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Sh. Lalji Verma, RA
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	18/11/2024
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	19/11/2024
7	नमूना एकत्रण पद्धति/Sampling procedure.....Please Refer.....	CB/ZLN/SOP/7.3/2 & CB/ZLN/SOP/B/7.4/2 Issue No. 01
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. Arvind Kumar, Scientist 'C'

क्रम सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.							
			KD-1	STP-2	STP-1	STP-3	STP-4	STP-5	CETP-1	IC-1
1	कैडमियम /Cd	मि.ग्रा./ली. mg/L	BDL	0.003	0.007	0.017	BDL	0.151	BDL	0.010
2	कोबाल्ट /Co	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL	0.005	NA	NA
3	क्रोमियम /Cr	मि.ग्रा./ली. mg/L	0.006	0.02	0.269	1.305	0.006	1.795	0.785	0.589
4	कॉपर /Cu	मि.ग्रा./ली. mg/L	0.008	0.015	0.014	0.024	0.015	0.157	0.029	0.018
5	आयरन /Fe	मि.ग्रा./ली. mg/L	0.649	0.749	0.372	0.550	0.904	10.41	NA	NA
6	मैंगनीज /Mn	मि.ग्रा./ली. mg/L	0.077	0.099	0.09	0.085	0.152	0.408	0.077	0.079
7	निकल /Ni	मि.ग्रा./ली. mg/L	BDL	0.015	0.100	BDL	BDL	0.017	BDL	0.006
8	लैड /Pb	मि.ग्रा./ली. mg/L	BDL	0.007	BDL	BDL	0.006	0.024	BDL	BDL
9	ज़िंक /Zn	मि.ग्रा./ली. mg/L	0.617	0.108	0.244	0.287	0.042	0.244	0.077	0.046
10	आर्सेनिक /As	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11	मरकरी /Hg	माइक्रोग्राम/ली. µg/L	0.1	BDL	5.143	2.363	1.809	1.902	NA	NA

विश्लेषण विधि हेतु क.प.उ./Test methods followed are appended overleaf

CODE	Description
KD-1	Golaghat Drain
STP-2	Outlet of STP Bingawan
STP-1	Outlet 130 MLD STP Jajmau
STP-3	Outlet of 36 MLD CETP Jajmau
STP-4	Inlet of 130 MLD STP Jajmau
STP-5	Inlet of 36 MLD CETP Jajmau
CETP-1	Outlet of 20 MLD CETP Jajmau
IC-1	Irrigation Canal

End of Test Report

Poonam
(Poonam Pandey)

Anamika
(डॉ० अनामिका सिंह)
वैज्ञानिक 'ग' एवं प्रभारी प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

Note : 1. The results in the Test Report relate only to the items tested ; 2. The report shall not be reproduced except in full, without the written permission of laboratory.

Parameters	Test Method	Below Detection Limit
Cadmium (Cd)	APHA 3111 A+B, 23 rd Ed. 2017	0.00242 mg/L
Cobalt (Co)	APHA 3111 A+B, 23 rd Ed. 2017	0.00161 mg/L
Chromium (Cr)	APHA 3111 A+B, 23 rd Ed. 2017	0.00332 mg/L
Copper (Cu)	APHA 3111 A+B, 23 rd Ed. 2017	0.00585 mg/L
Iron (Fe)	APHA 3111 A+B, 23 rd Ed. 2017	0.00194 mg/L
Manganese (Mn)	APHA 3111 A+B, 23 rd Ed. 2017	0.00099 mg/L
Nickel (Ni)	APHA 3111 A+B, 23 rd Ed. 2017	0.00488 mg/L
Lead (Pb)	APHA 3111 A+B, 23 rd Ed. 2017	0.00632 mg/L
Zinc (Zn)	APHA 3111 A+B, 23 rd Ed. 2017	0.01055 mg/L
Arsenic (As)	APHA 3111 A+B, 23 rd Ed. 2017	0.0146 mg/L
Mercury (Hg)	USEPA-7473	0.9 µg/L

1. APHA – American Public Health Association
2. IS – Indian Standard

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला
पिकप भवन, विभूति खण्ड, गोमती नगर, लखनऊ
फ़ोन : 0522 : 4087600
फैक्स : 0522 : 4087602

2621



Central Pollution Control Board Zonal Laboratory
PICUP Bhawan, Vibhuti Khand, Gominagar, Lucknow
Phone : 0522- 4087600
Fax : 0522 - 4087602

S.No SL/2024/18

Sludge/Sediments
TEST REPORT

1	Date of test report:13/01/2025	Date/period of testing:25/11-03/12/2024
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्रोत /भूजल /सरिता /अन्य/Sample Source (STP/ETP/Drain/any other)	Sludge
3	नमूने का प्रकार /ग्रेब/कम्पोजिट/Type of Sample (Grab/Composite)	Grab
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Dr. Lalji Verma, RA
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	18/11/2024
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	19/11/2024
7	नमूना एकत्रण पद्धति/Sampling procedure.....Please Refer.....	CB/ZLN/SOP/7.3/2 Issue No. 01
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. Arvind Kumar, Scientist 'C'

क्रम सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.					
			Sludge -1	Sludge-2	Sludge-3			
1.	कैडमियम/Cd	मि.ग्रा./ग्रा. mg/g	BDL	BDL	BDL			
2.	कोबाल्ट/Co	मि.ग्रा./ग्रा. mg/g	0.03	0.019	0.089			
3.	क्रोमियम/Cr	मि.ग्रा./ग्रा. mg/g	0.079	0.016	15.110			
4.	क्रोमियमVI/CrVI	मि.ग्रा./ग्रा. mg/g	BDL	BDL	BDL			
5.	कॉपर/Cu	मि.ग्रा./ग्रा. mg/g	0.021	0.026	0.025			
6.	आयरन/Fe	मि.ग्रा./ग्रा. mg/g	19.48	5.24	14.6			
7.	मैंगनीज/Mn	मि.ग्रा./ग्रा. mg/g	1.120	0.089	0.047			
8.	निकल/Ni	मि.ग्रा./ग्रा. mg/g	0.015	0.023	0.068			
9.	लैड/Pb	मि.ग्रा./ग्रा. mg/g	0.001	0.002	0.009			
10.	जिंक/Zn	मि.ग्रा./ग्रा. mg/g	0.078	0.096	0.054			
11.	आर्सेनिक/As	मि.ग्रा./ग्रा. mg/g	BDL	0.019	0.024			
12.	मरकरी/Hg	माइक्रो ग्रा./ग्रा. µg/g	0.736	0.306	1.867			

विश्लेषण विधि हेतु कृ.प.उ./Test methods followed are appended overleaf

CODE	Description
Sludge -1	STP Bingawan
Sludge-2	Rakhimandi
Sludge-3	STP-130MLD

End of Test Report

(Poonam Pandey)

आख्या बनावे वाले के हस्ताक्षर/ Prepared by (Name & Sign)

(डॉ० अनामिका सिंह)
वैज्ञानिक 'ग' एब प्रभारी प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ
अधिकृत हस्ताक्षरकर्ता/ Authorized Signatory

Note : 1. The results in the Test Report relate only to the items tested : 2. The report shall not be reproduced except in full, without the written permission of laboratory

Parameters	Test Method	Below Detection Limit
Cadmium (Cd)	APHA 3111 A+B, 23 rd Ed. 2017	0.00242 mg/L
Cobalt (Co)	APHA 3111 A+B, 23 rd Ed. 2017	0.00161 mg/L
Chromium (Cr)	APHA 3111 A+B, 23 rd Ed. 2017	0.00332 mg/L
Chromium VI	TCLP Method	0.1 mg/L
Copper (Cu)	APHA 3111 A+B, 23 rd Ed. 2017	0.00585 mg/L
Iron (Fe)	APHA 3111 A+B, 23 rd Ed. 2017	0.00194 mg/L
Manganese (Mn)	APHA 3111 A+B, 23 rd Ed. 2017	0.00099 mg/L
Nickel (Ni)	APHA 3111 A+B, 23 rd Ed. 2017	0.00488 mg/L
Lead (Pb)	APHA 3111 A+B, 23 rd Ed. 2017	0.00632 mg/L
Zinc (Zn)	APHA 3111 A+B, 23 rd Ed. 2017	0.01055 mg/L
Arsenic (As)	APHA 3111 A+B, 23 rd Ed. 2017	0.0146 mg/L
Mercury (Hg)	USEPA-7473	0.9 µg/L

Note: General metal digested in 1:100 ratio
Chromium VI extracted in 1:20 ratio
Analysed by Head Office, Delhi

2623

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला Central Pollution Control Board Zonal Laboratory			
Doc No. CB/ZLN/QR/7.8/1/1	Issue No. : 01	Date of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Date: 11/06/2024	Approved by : TM	Issued by: QM

पिकप भवन, विभूति खण्ड, गोमती नगर, लखनऊ
फोन : 0522 : 4087600, 4087700



PICUP Bhawan, Vibhuti Khand, Gomtinagar, Lucknow
Phone : 0522- 4087600, 4087700



Fresh water
TEST REPORT

S.No: F/2024/237

	Date of test report:06/12/2024	Date/period of testing:20-27/11/2024
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्थान/स्रोत(भूजल/सरिता/अन्य)Sample Location/Source(GW/River/others)	GW
3	नमूने का प्रकार /गैब/कम्पोजिट/Type of Sample (Grab/Composite)	Grab
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Sh. Lalji Verma, RA
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	19/11/2024
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	20/11/2024
7	नमूना एकत्रण पद्धति/Sampling procedure	CB/ZLN/SOP/7.3/2 & CB/ZLN/SOP/B/7.4/1
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. Arvind Kumar, Scientist 'C'

क्रम सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.							
			RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	RW-7	RW-8
1.	पी एच/ pH		7.00 (25.1°C)	7.18 (25.3°C)	7.43 (25.5°C)	7.32 (25.9°C)	7.28 (26.1°C)	7.59 (25.2°C)	6.83 (25.1°C)	7.26 (25.1°C)
2.	रंग/ Colour	हैज़न/ Hazen	250	300	05	05	05	25	05	05
3.	टी डी एस/ TDS	मि.ग्र./ली. mg/L	5364	5265	3873	303	462	263	826	406
4.	एफ डी एस/ FDS	मि.ग्र./ली. mg/L	4821	4393	2922	239	304	257	633	291
5.	कुल कठोरता/ Total Hardness	मि.ग्र./ली. mg/L	374	580	248	309	327	842	773	1761
6.	एल्कलिनिटी/ Alkalinity	मि.ग्र./ली. mg/L	537	539	393	446	457	840	841	888
7.	क्लोराइड/ Chloride as Cl ⁻	मि.ग्र./ली. mg/L	31.0	25.0	41.0	65.0	29.0	526	487	271
8.	फ्लोराइड/ Fluoride as F ⁻	मि.ग्र./ली. mg/L	0.63	1.17	0.92	1.23	0.66	1.01	0.77	0.56
9.	सल्फेट/ Sulphate as SO ₄ ²⁻	मि.ग्र./ली. mg/L	66.4	168	43.6	48.0	48.5	1162	808	561
10.	नाइट्रेट/ Nitrate (NO ₃ ⁻)	मि.ग्र./ली. mg/L	15.5	14.6	6.97	74.8	BDL	68.5	224	564
11.	नाइट्राइट/ Nitrite (NO ₂ ⁻)	मि.ग्र./ली. mg/L	BDL	BDL	BDL	BDL	BDL	0.348	BDL	BDL
12.	सी ओ डी /COD	मि.ग्र./ली. mg/L	BDL	BDL	6.81	12.0	10.7	81.1	74.6	48.4
13.	क्रोमियम हेक्सा./ Chromium-VI	मि.ग्र./ली. mg/L	BDL	BDL	BDL	0.169	NA	NA	NA	NA

विश्लेषण विधि हेतु कृ.प.उ./Test methods followed are appended overleaf
NA Represents: Not applicable.

CODE	Description
RW-1	Borewell Natraj Polyplast
RW-2	Borewell VD Paper
RW-3	Handpump U/S Khandchandpur
RW-4	Handpump D/S Khandchandpur
RW-5	Borewell RDS
RW-6	Borewell RUS
RW-7	Borewell BDS
RW-8	Borewell BUS

Page.....1/2

6/12/24
(Poonam Pandey)

06/12/24
(डॉ० अनामिका सिंह)
वैज्ञानिक 'ग' एवं प्रभारी प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

Note : 1. The results in the Test Report relate only to the items tested ; 2. The report shall not be reproduced except in full, without the written permission of laboratory.

Doc No. CB/ZLN/QR/7.8/1/1	Issue No. : 01	Date of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Date: 11/06/2024	Approved by : TM	Issued by: QM

Parameters	Test Method	Detection Range
Colour	APHA 2120-B, 23 rd Ed. 2017	5 – 100 Hazen
pH	APHA 4500 H ⁺ -B, 23 rd Ed. 2017	2- 12
Total Dissolved Solids	APHA 2540 C, 23 rd Ed. 2017	2.5 mg/L – 5000 mg/L
Chemical Oxygen Demand (COD)	APHA 5220 B, 23 rd Ed. 2017	5 mg/L – 500 mg/L
Nitrate	APHA 4500 – NO ₃ ⁻ – B, 23 rd Ed. 2017 (Ultraviolet Spectrophotometric Method)	2.2 mg/L -265 mg/L
Nitrite	APHA 4500-NO ₂ ⁻ -B, 23 rd Ed. 2017	0.16 mg/L-164 mg/L
Sulphate	APHA 4500-SO ₄ ²⁻ E, 23 rd Ed. 2017	2.0 mg/L- 250 mg/L
Chloride	APHA 4500-Cl B, 23 rd Ed. 2017	3.0 mg/L- 2000 mg/L
Fluoride	APHA 4500-F C, 23 rd Ed. 2017 (Ion Selective Electrode Method)	0.5 - 10 mg/L
Hardness Total	APHA 2340-C, 23 rd Ed. 2017	5.0 - 2000mg/L
Alkalinity	APHA 2320-B, 23 rd Ed. 2017	2.0 mg/L- 2500 mg/L
Chromium - VI	APHA 3500-Cr B, 23 rd Ed. 2017	0.1 - 5 mg/L

1. APHA - American Public Health Association
2. IS – Indian Standard
3. BDL = Below Detection Limit (Less then lower detection range mentioned in above table)

End of Test Report

Page.....2/2

Poonam
6/12/24

(Poonam Pandey)

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

Anamika
06/12/24
(डॉ० अनामिका सिंह)
वैज्ञानिक 'म' एच प्रभासी प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला Central Pollution Control Board Zonal Laboratory			
Doc No. CB/ZLN/QR/7.8/1/1	Issue No. : 01	Date of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Date: 11/06/2024	Approved by : TM	Issued by: QM

पिकप भवन, विभूति खण्ड, गोमती नगर, लखनऊ
फ़ोन : 0522 : 4087600, 4087700



PICUP Bhawan, Vibhuti Khand, Gomtinagar, Lucknow
Phone : 0522- 4087600, 4087700

**Fresh water
TEST REPORT**

S.No: F/2024/237(HM)

1	Date of test report:06/01/2025	Date/period of testing:20/11-17/12/2024
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्थान/स्रोत(भूजल/सरिता/अन्य)Sample Location/Source(GW/River/others)	GW
3	नमूने का प्रकार /ग्रेब/कम्पोजिट/Type of Sample (Grab/Composite)	Grab
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Sh. Lalji Verma, RA
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	19/11/2024
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	20/11/2024
7	नमूना एकत्रण पद्धति/Sampling procedure	CB/ZLN/SOP/7.3/2 & CB/ZLN/SOP/B/7.4/1
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. Arvind Kumar, Scientist 'C'

क्रम सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.								
			RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	RW-7	RW-8	
1	कैडमियम /Cd	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2	कोबाल्ट /Co	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3	क्रोमियम /Cr	मि.ग्रा./ली. mg/L	12.719	17.832	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4	कॉपर /Cu	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
5	आयरन /Fe	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL	1.219	BDL	BDL	BDL
6	मैंगनीज /Mn	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
7	निकल /Ni	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
8	लैड /Pb	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
9	ज़िंक /Zn	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10	आर्सेनिक /As	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11	मरकरी /Hg	माइक्रोग्रा./ली. µg/L	6.21	2.10	7.74	34.94	2.06	1.26	1.85	14.70	

विश्लेषण विधि हेतु कृ.प.उ./Test methods followed are appended overleaf

CODE	Description
RW-1	Borewell Natraj Polyplast
RW-2	Borewell VD Paper
RW-3	Handpump U/S Khandchandpur
RW-4	Handpump D/S Khandchandpur
RW-5	Borewell RDS
RW-6	Borewell RUS
RW-7	Borewell BDS
RW-8	Borewell BUS

End of Test Report

Poonam
6/1/25

(Poonam Pandey)

Anamika
06/01/25

(डॉ० अनामिका सिंह)
वैज्ञानिक 'ग' एब प्रभासी प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

Note : 1. The results in the Test Report relate only to the items tested : 2. The report shall not be reproduced except in full, without the written permission of laboratory.

Parameters	Test Method	Below Detection Limit
Cadmium (Cd)	APHA 3111 A+B, 23 rd Ed. 2017	0.00042 mg/L
Cobalt (Co)	APHA 3111 A+B, 23 rd Ed. 2017	0.00035 mg/L
Chromium (Cr)	APHA 3111 A+B, 23 rd Ed. 2017	0.00056 mg/L
Copper (Cu)	APHA 3111 A+B, 23 rd Ed. 2017	0.00035 mg/L
Iron (Fe)	APHA 3111 A+B, 23 rd Ed. 2017	0.00067 mg/L
Manganese (Mn)	APHA 3111 A+B, 23 rd Ed. 2017	0.00043 mg/L
Nickel (Ni)	APHA 3111 A+B, 23 rd Ed. 2017	0.00054 mg/L
Lead (Pb)	APHA 3111 A+B, 23 rd Ed. 2017	0.00031 mg/L
Zinc (Zn)	APHA 3111 A+B, 23 rd Ed. 2017	0.00059 mg/L
Arsenic (As)	APHA 3111 A+B, 23 rd Ed. 2017	0.00049 mg/L
Mercury (Hg)	USEPA-7473	0.9 µg/L

1. APHA - American Public Health Association
2. IS - Indian Standard

2627

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला Central Pollution Control Board Zonal Laboratory			
Doc No. CB/ZLN/QR/7.8/1/1	Issue No. : 01	Date of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Date: 11/06/2024	Approved by : TM	Issued by: QM

पिकप भवन, विभूति खण्ड, गोमती नगर, लखनऊ
फ़ोन : 0522 : 4087600, 4087700



PICUP Bhawan, Vibhuti Khand, Gominagar, Lucknow
Phone : 0522- 4087600, 4087700



Fresh water
TEST REPORT

S.No: F/2024/236

	Date of test report:06/12/2024	Date/period of testing:20-28/11/2024
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्थान/स्रोत(भूजल/सरिता/अन्य)Sample Location/Source(GW/River/others)	River
3	नमूने का प्रकार /गैब/कम्पोजिट/Type of Sample (Grab/Composite)	Grab
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Sh. Lalji Verma, RA
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	19/11/2024
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	20/11/2024
7	नमूना एकत्रण पद्धति/Sampling procedure	CB/ZLN/SOP/7.3/2 & CB/ZLN/SOP/B/7.4/1
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. Arvind Kumar, Scientist 'C'

क्रम सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.			
			KR-1			
1.	पी एच/ pH		7.20 (25.2°C)			
2.	तापमान/ Temperature *	*से./°C	23.0			
3.	रंग/ Colour	हैज़न/ Hazen	35			
4.	चालकता/ Conductivity	मा.सिमेन/से.मी/ µ S/cm	876			
5.	कुल कठोरता/ Total Hardness	मि.ग्रा./ली. mg/L	430			
6.	सल्फेट/ Sulphate as SO ₄ ²⁻	मि.ग्रा./ली. mg/L	171			
7.	बोरॉन/ Boron	मि.ग्रा./ली. mg/L	BDL			
8.	एस.ए.आर./ S.A.R.	---	3.63			
9.	घुलित आक्सीजन/ DO *	मि.ग्रा./ली. mg/L	NT			
10.	सी ओ डी / COD	मि.ग्रा./ली. mg/L	130			
11.	बी ओ डी / BOD	मि.ग्रा./ली. mg/L	38.6			
12.	कुल कॉलीफॉर्म /T-Coliforms	MPN/100ml	1.6x10 ⁸			
13.	फीकल कॉलीफॉर्म/F-Coliforms	MPN/100ml	3.5x10 ⁷			

विश्लेषण विधि हेतु कृ.प.उ./Test methods followed are appended overleaf

*Analysed/measured at site by sampling team.

Page.....1/2

CODE	Description
KR-1	Noon River

Poonam
6/12/24
(Poonam Pandey)

Anamika
06/12/24
(डॉ० अनामिका सिंह)
वैज्ञानिक 'म' एक प्रभासी प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

Note : 1. The results in the Test Report relate only to the items tested ; 2. The report shall not be reproduced except in full, without the written permission of laboratory.

2628

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला Central Pollution Control Board Zonal Laboratory			
Doc No. CB/ZLN/QR/7.8/1/1	Issue No. : 01	Date of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Date: 11/06/2024	Approved by : TM	Issued by: QM

Parameters	Test Method	Detection Range
Colour	APHA 2120-B, 23 rd Ed. 2017	5 – 100 Hazen
Temperature	APHA 2550 A+B, 23 rd Ed. 2017	1 -50 °C
Conductivity	APHA 2510-B, 23 rd Ed. 2017	0.1 μ S/cm -12mS/cm
pH	APHA 4500 H ⁺ -B, 23 rd Ed. 2017	2- 12
Chemical Oxygen Demand (COD)	APHA 5220 B, 23 rd Ed. 2017	5 mg/L – 500 mg/L
Biochemical Oxygen demand (BOD)	APHA 5210 B, 23 rd Ed. 2017 4500 OC, 23 rd Ed. 2017 (05 DAY)	1.0 mg/L – 50 mg/L
Dissolved Oxygen	APHA 4500-OC, 23 rd Ed. 2017	1.0mg/L -12 mg/L
Hardness Total	APHA 2340-C, 23 rd Ed. 2017	5.0 - 2000mg/L
Sulphate	APHA 4500-SO ₄ ²⁻ E, 23 rd Ed. 2017	2.0 mg/L- 250 mg/L
Boron	APHA 4500-B C, 23 rd Ed. 2017	0.5 - 10.0 mg/L
Total Coliform	APHA 23rd Ed. 2017, 9221-A, B &C	1.8 - >1600 MPN/100 mL
Fecal Coliform	APHA 23rd Ed. 2017, 9221-C (2), 9221 E	1.8 - >1600 MPN/100 mL

1. APHA - American Public Health Association
2. IS – Indian Standard
3. BDL = Below Detection Limit (Less then lower detection range mentioned in above table)

End of Test Report

Page.....2/2

Poonam
6/12/24
(Poonam Pandey)

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

Anamika
06/12/24
(डॉ० अनामिका सिंह)
वैज्ञानिक 'ग' एच प्रभासी प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला Central Pollution Control Board Zonal Laboratory			
Doc No. CB/ZLN/QR/7.8/1/1	Issue No. : 01	Date of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Date: 11/06/2024	Approved by : TM	Issued by: QM

पिकप भवन , विभूति खण्ड, गोमती नगर, लखनऊ
फ़ोन : 0522 : 4087600, 4087700



PICUP Bhawan, Vibhuti Khand, Gomtinagar, Lucknow
Phone : 0522- 4087600, 4087700

Fresh water
TEST REPORT

S.No: F/2024/236(HM)

1	Date of test report:06/01/2025	Date/period of testing:25/11-17/12/2024
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्थान/स्रोत(भूजल/सरिता/अन्य)Sample Location/Source(GW/River/others)	River
3	नमूने का प्रकार /शैव/कम्पोजिट/Type of Sample (Grab/Composite)	Grab
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Sh. Lalji Verma, RA
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	19/11/2024
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	20/11/2024
7	नमूना एकत्रण पद्धति/Sampling procedure	CB/ZLN/SOP/7.3/2 & CB/ZLN/SOP/B/7.4/1
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. Arvind Kumar, Scientist 'C'

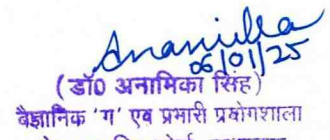
क्रम सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.						
			KR-1						
1.	कैडमियम /Cd	मि.ग्रा./ली. mg/L	BDL						
2.	कोबाल्ट /Co	मि.ग्रा./ली. mg/L	BDL						
3.	क्रोमियम /Cr	मि.ग्रा./ली. mg/L	BDL						
4.	कॉपर /Cu	मि.ग्रा./ली. mg/L	BDL						
5.	आयरन /Fe	मि.ग्रा./ली. mg/L	BDL						
6.	मैंगनीज /Mn	मि.ग्रा./ली. mg/L	BDL						
7.	निकल /Ni	मि.ग्रा./ली. mg/L	BDL						
8.	लैड /Pb	मि.ग्रा./ली. mg/L	BDL						
9.	जिंक /Zn	मि.ग्रा./ली. mg/L	BDL						
10.	आर्सेनिक /As	मि.ग्रा./ली. mg/L	BDL						
11.	मरकरी /Hg	माइक्रोग्रा./ली. µg/L	2.74						

विश्लेषण विधि हेतु कृ.प. 3./Test methods followed are appended overleaf

CODE	Description
KR-1	Noon River

End of Test Report


(Poonam Pandey)


(डा० अनामिका सिंह)
वैज्ञानिक 'ग' एव प्रभारी प्रयोगशाला

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

समीक्षा एवं हस्ताक्षरकर्ता/Reviewed & Authorized by

Note : 1. The results in the Test Report relate only to the items tested : 2. The report shall not be reproduced except in full, without the written permission of laboratory.

Parameters	Test Method	Below Detection Limit
Cadmium (Cd)	APHA 3111 A+B, 23 rd Ed. 2017	0.00042 mg/L
Cobalt (Co)	APHA 3111 A+B, 23 rd Ed. 2017	0.00035 mg/L
Chromium (Cr)	APHA 3111 A+B, 23 rd Ed. 2017	0.00056 mg/L
Copper (Cu)	APHA 3111 A+B, 23 rd Ed. 2017	0.00035 mg/L
Iron (Fe)	APHA 3111 A+B, 23 rd Ed. 2017	0.00067 mg/L
Manganese (Mn)	APHA 3111 A+B, 23 rd Ed. 2017	0.00043 mg/L
Nickel (Ni)	APHA 3111 A+B, 23 rd Ed. 2017	0.00054 mg/L
Lead (Pb)	APHA 3111 A+B, 23 rd Ed. 2017	0.00031 mg/L
Zinc (Zn)	APHA 3111 A+B, 23 rd Ed. 2017	0.00059 mg/L
Arsenic (As)	APHA 3111 A+B, 23 rd Ed. 2017	0.00049 mg/L
Mercury (Hg)	USEPA-7473	0.9 µg/L

1. APHA - American Public Health Association
2. IS – Indian Standard

2631

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला Central Pollution Control Board Zonal Laboratory			
Doc No. CB/ZLN/QR/7.8/2/1	Issue No. : 01	Dt of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Dt: 11/06/2024	Approved by : TM	Issued by: QM

पिकप भवन , विभूति खण्ड, गोमती नगर, लखनऊ
फ़ोन : 0522 : 4087600,4087700

PICUP Bhawan, Vibhuti Khand, Gominagar, Lucknow
Phone : 0522- 4087600,4087700



S.No. W/2024/290

WASTEWATER
TEST REPORT

	Date of test report:05/12/2024	Date/period of testing:20/11/2024
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्रोत /भूजल /सरिता /अन्य/Sample Source (STP/ETP/Drain/any other)	Surface water
3	नमूने का प्रकार /गैब/कम्पोजिट/Type of Sample (Grab/Composite)	Grab
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Sh. Lalji Verma, RA
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	19/11/2024
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	20/11/2024
7	नमूना एकत्रण पद्धति/Sampling procedure.....Please Refer.....	CB/ZLN/SOP/7.3/2 & CB/ZLN/SOP/B/7.4/2 Issue No. 01
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. Arvind Kumar, Scientist 'C'

क्रम सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.			
			RSW-1			
1.	क्रोमियम हेक्सा./ Chromium-VI	मि.ग्रा./ली. mg/L	BDL			

विश्लेषण विधि हेतु कृ.प.उ./Test methods followed are appended overleaf

Page.....1/2

CODE	Description
RSW-1	Surface water (Rania)

Poonam
5/12/24
(Poonam Pandey)

Anamika
05/12/24
(डॉ० अनामिका सिंह)
वैज्ञानिक 'ग' एवं प्रभारी प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

Note : 1. The results in the Test Report relate only to the items tested ; 2. The report shall not be reproduced except in full, without the written permission of laboratory.

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला		Central Pollution Control Board Zonal Laboratory	
Doc No. CB/ZLN/QR/7.8/2/1	Issue No. : 01	Dt of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Dt: 11/06/2024	Approved by : TM	Issued by: QM
Parameters	Test Method	Detection Range	
Chromium - VI	APHA 3500-Cr B, 23 rd Ed. 2017	0.1 - 20 mg/L	

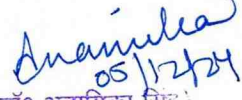
1. APHA – American Public Health Association
2. IS – Indian Standard
3. BDL = Below Detection Limit (Less than lower detection range mentioned in above table)

End of Test Report

Page.....2/2


5/12/24
(Poonam Pandey)

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)


05/12/24
(डॉ० अनामिका सिंह)
वैज्ञानिक 'ग' एवं प्रमोरी प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

2633

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला Central Pollution Control Board Zonal Laboratory			
Doc No. CB/ZLN/QR/7.8/2/1	Issue No. : 01	Dt of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Dt: 11/06/2024	Approved by : TM	Issued by: QM

पिकप भवन , विभूति खण्ड, गोमती नगर, लखनऊ
फ़ोन : 0522 : 4087600,4087700

PICUP Bhawan, Vibhuti Khand, Gomtinagar, Lucknow
Phone : 0522- 4087600,4087700



S.No. W/2024/290(HM)

WASTEWATER TEST REPORT

1	Date of test report:06/01/2025	Date/period of testing:25/11-17/12/2024
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्रोत /भूजल /सरिता /अन्य/Sample Source (STP/ETP/Drain/any other)	Surface water
3	नमूने का प्रकार /गैब/कम्पोजिट/Type of Sample (Grab/Composite)	Grab
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Sh. Lalji Verma, RA
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	19/11/2024
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	20/11/2024
7	नमूना एकत्रण पद्धति/Sampling procedure.....Please Refer.....	CB/ZLN/SOP/7.3/2 & CB/ZLN/SOP/B/7.4/2 Issue No. 01
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. Arvind Kumar, Scientist 'C'

क्रम सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.			
			RSW-1			
1.	कैडमियम /Cd	मि.ग्र./ली. mg/L.	BDL			
2.	कोबाल्ट /Co	मि.ग्र./ली. mg/L.	0.007			
3.	क्रोमियम /Cr	मि.ग्र./ली. mg/L.	0.586			
4.	कॉपर /Cu	मि.ग्र./ली. mg/L.	0.026			
5.	आयरन /Fe	मि.ग्र./ली. mg/L.	10.84			
6.	मैंगनीज /Mn	मि.ग्र./ली. mg/L.	0.164			
7.	निकल /Ni	मि.ग्र./ली. mg/L.	0.011			
8.	लेड /Pb	मि.ग्र./ली. mg/L.	0.011			
9.	जिंक /Zn	मि.ग्र./ली. mg/L.	0.053			
10.	आर्सेनिक /As	मि.ग्र./ली. mg/L.	BDL			
11.	मरकरी /Hg	माइक्रोग्र./ली. µg/L.	2.194			

विश्लेषण विधि हेतु कृ.प.उ./Test methods followed are appended overleaf

CODE	Description
RSW-1	Surface water (Rania)

End of Test Report

Poonam
6/11/25
(Poonam Pandey)

Anamika
06/01/25
(डॉ० अनामिका सिंह)
वैज्ञानिक 'ग' एवं प्रभासी प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

Note : 1. The results in the Test Report relate only to the items tested : 2. The report shall not be reproduced except in full, without the written permission of laboratory.

Parameters	Test Method	Below Detection Limit
Cadmium (Cd)	APHA 3111 A+B, 23 rd Ed. 2017	0.00242 mg/L
Cobalt (Co)	APHA 3111 A+B, 23 rd Ed. 2017	0.00161 mg/L
Chromium (Cr)	APHA 3111 A+B, 23 rd Ed. 2017	0.00332 mg/L
Copper (Cu)	APHA 3111 A+B, 23 rd Ed. 2017	0.00585 mg/L
Iron (Fe)	APHA 3111 A+B, 23 rd Ed. 2017	0.00194 mg/L
Manganese (Mn)	APHA 3111 A+B, 23 rd Ed. 2017	0.00099 mg/L
Nickel (Ni)	APHA 3111 A+B, 23 rd Ed. 2017	0.00488 mg/L
Lead (Pb)	APHA 3111 A+B, 23 rd Ed. 2017	0.00632 mg/L
Zinc (Zn)	APHA 3111 A+B, 23 rd Ed. 2017	0.01055 mg/L
Arsenic (As)	APHA 3111 A+B, 23 rd Ed. 2017	0.0146 mg/L
Mercury (Hg)	USEPA-7473	0.9 µg/L

1. APHA – American Public Health Association
2. IS – Indian Standard



Sludge/Sediments
TEST REPORT

S.No SL/2024/19

1	Date of test report:13/01/2025	Date/period of testing:25/11-03/12/2024
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्रोत /भूजल /मरिना /अन्य/Sample Source (STP/ETP/Drain/any other)	Sludge
3	नमूने का प्रकार /गैब/कम्पोजिट/Type of Sample (Grab/Composite)	Grab
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Dr. Lalji Verma, RA
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	19/11/2024
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	20/11/2024
7	नमूना एकत्रण पद्धति/Sampling procedure.....Please Refer.....	CB/ZLN/SOP/7.3/2 Issue No. 01
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. Arvind Kumar, Scientist 'C'

क्रम सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.					
			RS-1	RS-2	RS-3	RS-4	RS-5	RS-6
1	कैडमियम/Cd	मि.का./का. mg/g	BDL	BDL	BDL	BDL	BDL	BDL
2	कोबाल्ट/Co	मि.का./का. mg/g	0.021	0.054	0.038	0.037	0.013	0.001
3	क्रोमियम/Cr	मि.का./का. mg/g	10.88	36.97	39.47	29.10	2.63	0.001
4	क्रोमियमVI/CrVI	मि.का./का. mg/g	5.53	23.60	0.03	14.26	0.002	BDL
5	कॉपर/Cu	मि.का./का. mg/g	0.023	0.025	0.024	0.026	0.008	0.002
6	आयर्न/Fe	मि.का./का. mg/g	13.20	9.650	18.09	31.27	6.76	0.020
7	मैंगनीज/Mn	मि.का./का. mg/g	0.054	0.099	1.080	0.047	0.017	0.147
8	निकल/Ni	मि.का./का. mg/g	0.098	0.065	0.140	0.090	0.030	0.002
9	लैड/Pb	मि.का./का. mg/g	0.085	0.009	0.008	0.012	0.003	BDL
10	ज़िंक/Zn	मि.का./का. mg/g	0.036	0.080	0.059	0.058	0.194	0.022
11	आर्सेनिक/As	मि.का./का. mg/g	0.015	BDL	0.004	0.035	0.002	BDL
12	मरकरी/Hg	माइक्रो का/का. μg/g	2.406	1.306	1.020	0.580	0.770	3.380

विश्लेषण विधि हेतु कृ.प.३./Test methods followed are appended overleaf

CODE	Description
RS-1	Soil near Road (Rania) L
RS-2	Soil near Road (Rania) R
RS-3	Rania Soil & Ash
RS-4	Rania Soil Down side
RS-5	Rania Soil (WT)
RS-6	Soil / Ash Khanchandpur

End of Test Report

13/1/25
(Poonam Pandey)

आख्या बनाने वाले के हस्ताक्षर/ Prepared by (Name & Sign)

13/01/25
(श्रीमती अनामिका सिंह)
शैक्षणिक 'ग' एवं प्रशासकीय प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ

अधिकृत हस्ताक्षरकर्ता/ Authorized Signatory

Note : 1. The results in the Test Report relate only to the items tested ; 2. The report shall not be reproduced except in full, without the written permission of laboratory

Parameters	Test Method	Below Detection Limit
Cadmium (Cd)	APHA 3111 A+B, 23 rd Ed. 2017	0.00242 mg/L
Cobalt (Co)	APHA 3111 A+B, 23 rd Ed. 2017	0.00161 mg/L
Chromium (Cr)	APHA 3111 A+B, 23 rd Ed. 2017	0.00332 mg/L
Chromium VI	TCLP Method	0.1 mg/L
Copper (Cu)	APHA 3111 A+B, 23 rd Ed. 2017	0.00585 mg/L
Iron (Fe)	APHA 3111 A+B, 23 rd Ed. 2017	0.00194 mg/L
Manganese (Mn)	APHA 3111 A+B, 23 rd Ed. 2017	0.00099 mg/L
Nickel (Ni)	APHA 3111 A+B, 23 rd Ed. 2017	0.00488 mg/L
Lead (Pb)	APHA 3111 A+B, 23 rd Ed. 2017	0.00632 mg/L
Zinc (Zn)	APHA 3111 A+B, 23 rd Ed. 2017	0.01055 mg/L
Arsenic (As)	APHA 3111 A+B, 23 rd Ed. 2017	0.0146 mg/L
Mercury (Hg)	USEPA-7473	0.9 µg/L

Note: General metal digested in 1:100 ratio
 Chromium VI extracted in 1:20 ratio
 Analysed by Head Office, Delhi

2637

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला Central Pollution Control Board Zonal Laboratory			
Doc No. CB/ZLN/QR/7.8/1/1	Issue No. : 01	Date of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Date: 11/06/2024	Approved by : TM	Issued by: QM

पिकप भवन , विभूति खण्ड, गोमती नगर, लखनऊ
फ़ोन : 0522 : 4087600, 4087700



PICUP Bhawan, Vibhuti Khand, Gomtinagar, Lucknow
Phone : 0522- 4087600, 4087700



Fresh water
TEST REPORT

S.No: F/2024/239

	Date of test report:12/12/2024	Date/period of testing:21-26/11/2024
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्थान/स्रोत(भूजल/सरिता/अन्य)Sample Location/Source(GW/River/others)	GW
3	नमूने का प्रकार /गैब/कम्पोजिट/Type of Sample (Grab/Composite)	Grab
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Sh. Lalji Verma, RA
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	20/11/2024
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	21/11/2024
7	नमूना एकत्रण पद्धति/Sampling procedure	CB/ZLN/SOP/7.3/2 & CB/ZLN/SOP/B/7.4/1
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. Arvind Kumar, Scientist 'C'

क्रम सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.				
			GF-1	GF-2	GF-3	GF-4	GF-5
1.	पी एच/ pH		7.01 (24.5°C)	7.08 (23.9°C)	6.84 (23.6°C)	7.04 (23.6°C)	7.31 (25.8°C)
2.	रंग/ Colour	हैज़न/ Hazen	05	10	250	500	05
3.	टी डी एस/ TDS	मि.ग्रा./ली. mg/L	927	818	1734	1479	845
4.	एफ डी एस/ FDS	मि.ग्रा./ली. mg/L	793	738	1487	1400	783
5.	कुल कठोरता/ Total Hardness	मि.ग्रा./ली. mg/L	516	412	610	580	256
6.	एल्कलिनिटी/ Alkalinity	मि.ग्रा./ली. mg/L	586	472	573	583	497
7.	क्लोराइड/ Chloride as Cl ⁻	मि.ग्रा./ली. mg/L	40.0	108	241	360	69.0
8.	फ्लोराइड/ Floride as F ⁻	मि.ग्रा./ली. mg/L	1.33	0.99	BDL	1.31	0.56
9.	सल्फेट/ Sulphate as SO ₄ ²⁻	मि.ग्रा./ली. mg/L	17.8	59.1	207	131	39.7
10.	नाइट्रेट/ Nitrate (NO ₃ ⁻)	मि.ग्रा./ली. mg/L	37.9	30.9	165	30.2	12.8
11.	नाइट्राइट/ Nitrite (NO ₂ ⁻)	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
12.	सी ओ डी / COD	मि.ग्रा./ली. mg/L	BDL	BDL	5.70	BDL	BDL
13.	क्रोमियम हेक्सटा./ Chromium-VI	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL

विश्लेषण विधि हेतु कृ.प.उ./Test methods followed are appended overleaf

CODE	Description
GF-1	Ground water (Near MLMP Food)
GF-2	Handpump near Virendra
GF-3	Handpump near Sheetla Mata Mandir (Pond)
GF-4	Borewell Ashapur Medical Hospital
GF-5	Borewell of Maida Mill

Page.....1/2

(Poonam Pandey)
12/12/24

(डॉ० अनामिका सिंह)
13/12/24
वैज्ञानिक 'ग' एवं प्रभारी प्रयोगशाला
केन्द्रीय प्रदूषण नियंत्रण बोर्ड, लखनऊ

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

Note : 1. The results in the Test Report relate only to the items tested ; 2. The report shall not be reproduced except in full, without the written permission of laboratory.

2638

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला Central Pollution Control Board Zonal Laboratory			
Doc No. CB/ZLN/QR/7.8/1/1	Issue No. : 01	Date of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Date: 11/06/2024	Approved by : TM	Issued by: QM

Parameters	Test Method	Detection Range
Colour	APHA 2120-B, 23 rd Ed. 2017	5 – 100 Hazen
pH	APHA 4500 H ⁺ -B, 23 rd Ed. 2017	2- 12
Total Dissolved Solids	APHA 2540 C, 23 rd Ed. 2017	2.5 mg/L – 5000 mg/L
Chemical Oxygen Demand (COD)	APHA 5220 B, 23 rd Ed. 2017	5 mg/L – 500 mg/L
Nitrate	APHA 4500 – NO ₃ ⁻ – B, 23 rd Ed. 2017 (Ultraviolet Spectrophotometric Method)	2.2 mg/L -265 mg/L
Nitrite	APHA 4500-NO ₂ ⁻ -B, 23 rd Ed. 2017	0.16 mg/L-164 mg/L
Sulphate	APHA 4500-SO ₄ ²⁻ E, 23 rd Ed. 2017	2.0 mg/L- 250 mg/L
Chloride	APHA 4500-Cl B, 23 rd Ed. 2017	3.0 mg/L- 2000 mg/L
Fluoride	APHA 4500-F C, 23 rd Ed. 2017 (Ion Selective Electrode Method)	0.5 - 10 mg/L
Hardness Total	APHA 2340-C, 23 rd Ed. 2017	5.0 - 2000mg/L
Alkalinity	APHA 2320-B, 23 rd Ed. 2017	2.0 mg/L- 2500 mg/L
Chromium - VI	APHA 3500-Cr B, 23 rd Ed. 2017	0.1 - 5 mg/L

1. APHA - American Public Health Association
2. IS – Indian Standard
3. BDL = Below Detection Limit (Less then lower detection range mentioned in above table)

End of Test Report

Page.....2/2

Poonam
12/12/24
(Poonam Pandey)

आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

Anamika
13/12/24
(डॉ० अनामिका सिंह)
वैज्ञानिक 'ग' एवं प्रभारी प्रयोगशाला
को प्रदूषण नियंत्रण बोर्ड, ल.अनूप

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

2639

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला Central Pollution Control Board Zonal Laboratory			
Doc No. CB/ZLN/QR/7.8/1/1	Issue No. : 01	Date of Issue : 16.08.2022	Page No. : 1 of 1
Amendment no. : 02/05	Amendment Date: 11/06/2024	Approved by : TM	Issued by: QM

पिकप भवन , विभूति खण्ड, गोमती नगर, लखनऊ
फ़ोन : 0522 : 4087600, 4087700



PICUP Bhawan, Vibhuti Khand, Gomtinagar, Lucknow
Phone : 0522- 4087600, 4087700

Fresh water
TEST REPORT

S.No: F/2024/239(HM)

1	Date of test report:06/01/2025	Date/period of testing:25/11-17/12/2024
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्थान/स्रोत(भूजल/सरिता/अन्य)Sample Location/Source(GW/River/others)	GW
3	नमूने का प्रकार /गैब/कम्पोजिट/Type of Sample (Grab/Composite)	Grab
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Sh. Lalji Verma, RA
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	20/11/2024
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	21/11/2024
7	नमूना एकत्रण पद्धति/Sampling procedure	CB/ZLN/SOP/7.3/2 & CB/ZLN/SOP/B/7.4/1
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. Arvind Kumar, Scientist 'C'

क्रम सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.				
			GF-1	GF-2	GF-3	GF-4	GF-5
1.	कैडमियम /Cd	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
2.	कोबाल्ट /Co	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
3.	क्रोमियम /Cr	मि.ग्रा./ली. mg/L	BDL	BDL	16.572	31.909	BDL
4.	कॉपर /Cu	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
5.	आयरन /Fe	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
6.	मैंगनीज /Mn	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
7.	निकल /Ni	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
8.	लैड /Pb	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
9.	ज़िंक /Zn	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
10.	आर्सेनिक /As	मि.ग्रा./ली. mg/L	BDL	BDL	BDL	BDL	BDL
11.	मरकरी /Hg	माइक्रोग्रा./ली. µg/L	0.68	0.41	1.09	1.46	0.27

विश्लेषण विधि हेतु कु.प.उ./Test methods followed are appended overleaf

CODE	Description
GF-1	Ground water (Near MLMP Food)
GF-2	Handpump near Virendra
GF-3	Handpump near Sheetla Mata Mandir (Pond)
GF-4	Borewell Ashapur Medical Hospital
GF-5	Borewell of Maida Mill

End of Test Report

Poonam
6/1/25
(Poonam Pandey)

Anamika
06/10/25
(डॉ० अनामिका सिंह)
वैज्ञानिक 'य' एब प्रभारी प्रयोगशाला
के० प्र० नि० बोर्ड, लखनऊ

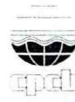
आख्या बनाने वाले के हस्ताक्षर/Prepared by (Name & Sign)

समीक्षा एवं हस्ताक्षरकर्ता/ Reviewed & Authorized by

Note : 1. The results in the Test Report relate only to the items tested : 2. The report shall not be reproduced except in full, without the written permission of laboratory.

Parameters	Test Method	Below Detection Limit
Cadmium (Cd)	APHA 3111 A+B, 23 rd Ed. 2017	0.00042 mg/L
Cobalt (Co)	APHA 3111 A+B, 23 rd Ed. 2017	0.00035 mg/L
Chromium (Cr)	APHA 3111 A+B, 23 rd Ed. 2017	0.00056 mg/L
Copper (Cu)	APHA 3111 A+B, 23 rd Ed. 2017	0.00035 mg/L
Iron (Fe)	APHA 3111 A+B, 23 rd Ed. 2017	0.00067 mg/L
Manganese (Mn)	APHA 3111 A+B, 23 rd Ed. 2017	0.00043 mg/L
Nickel (Ni)	APHA 3111 A+B, 23 rd Ed. 2017	0.00054 mg/L
Lead (Pb)	APHA 3111 A+B, 23 rd Ed. 2017	0.00031 mg/L
Zinc (Zn)	APHA 3111 A+B, 23 rd Ed. 2017	0.00059 mg/L
Arsenic (As)	APHA 3111 A+B, 23 rd Ed. 2017	0.00049 mg/L
Mercury (Hg)	USEPA-7473	0.0009 mg/L

1. APHA - American Public Health Association
2. IS – Indian Standard



Sludge/Sediments
TEST REPORT

S.No SL/2024/20

1	Date of test report: 13/01/2025	Date/period of testing: 25/11-03/12/2024
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्रोत /भूजल /सरिता /अन्य/Sample Source (STP/ETP/Drain/any other)	Sludge
3	नमूने का प्रकार /गैब/कम्पोजिट/Type of Sample (Grab/Composite)	Grab
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Dr. Lalji Verma, RA
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	20/11/2024
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	21/11/2024
7	नमूना एकत्रण पद्धति/Sampling procedure.....Please Refer.....	CB/ZLN/SOP/7.3/2 Issue No. 01
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. Arvind Kumar, Scientist 'C'

क्रम सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.					
			FS-1	FS-2	GS-3	FS-4	FS-5	FS-6
1.	कैडमियम/Cd	मि.ग्राम./ग्राम, mg/g	BDL	BDL	BDL	BDL	BDL	BDL
2.	कोबाल्ट/Co	मि.ग्राम./ग्राम, mg/g	0.076	0.144	0.105	0.021	0.135	0.014
3.	क्रोमियम/Cr	मि.ग्राम./ग्राम, mg/g	21.800	17.980	21.27	52.50	31.32	25.52
4.	क्रोमियमVI/CrVI	मि.ग्राम./ग्राम, mg/g	12.0	2.93	6.66	20.24	19.05	22.37
5.	काँपर/Cu	मि.ग्राम./ग्राम, mg/g	0.009	0.008	0.006	0.016	0.009	0.024
6.	आयरन/Fe	मि.ग्राम./ग्राम, mg/g	35.40	40.07	45.22	18.59	70.45	18.78
7.	मैंगनीज/Mn	मि.ग्राम./ग्राम, mg/g	0.056	1.275	0.100	0.298	1.195	0.310
8.	निकल/Ni	मि.ग्राम./ग्राम, mg/g	0.240	1.17	0.690	0.040	1.040	0.030
9.	लेड/Pb	मि.ग्राम./ग्राम, mg/g	0.004	0.002	0.004	0.007	0.006	0.010
10.	जिंक/Zn	मि.ग्राम./ग्राम, mg/g	0.066	0.114	0.055	0.045	0.083	0.039
11.	आर्सेनिक/As	मि.ग्राम./ग्राम, mg/g	0.020	0.013	0.018	0.064	0.026	0.035
12.	मरकरी/Hg	माइक्रोग्राम/ग्राम, µg/g	0.870	0.590	0.570	1.000	0.810	0.760

विश्लेषण विधि हेतु कृ.प.उ./Test methods followed are appended overleaf

CODE	Description
FS-1	Soil (near Road and MLMP Factory)
FS-2	Soil near (Pond Sheetla Mata Mandir)
GS-3	Soil (Baniya Khear & Ambuj Nagar Road)
FS-4	Soil near (Baniya Khear Road near 150 m Railway Crossing)
FS-5	Soil Baniyapur Dumpsite (Mid point)
FS-6	Soil Baniyapur Dumpsite (Back side)

End of Test Report

Poonam Pandey
13/01/25
(Poonam Pandey)

आख्या बनावे वाले के हस्ताक्षर/ Prepared by (Name & Sign)

Note : 1. The results in the Test Report relate only to the items tested : 2. The report shall not be reproduced except in full, without the written permission of laboratory

Anamika
13/01/25
(डॉ० अनामिका सिंह)
अधिकृत हस्ताक्षरकर्ता/ Authorized Signatory

Parameters	Test Method	Below Detection Limit
Cadmium (Cd)	APHA 3111 A+B, 23 rd Ed. 2017	0.00242 mg/L
Cobalt (Co)	APHA 3111 A+B, 23 rd Ed. 2017	0.00161 mg/L
Chromium (Cr)	APHA 3111 A+B, 23 rd Ed. 2017	0.00332 mg/L
Chromium VI	TCLP Method	0.1 mg/L
Copper (Cu)	APHA 3111 A+B, 23 rd Ed. 2017	0.00585 mg/L
Iron (Fe)	APHA 3111 A+B, 23 rd Ed. 2017	0.00194 mg/L
Manganese (Mn)	APHA 3111 A+B, 23 rd Ed. 2017	0.00099 mg/L
Nickel (Ni)	APHA 3111 A+B, 23 rd Ed. 2017	0.00488 mg/L
Lead (Pb)	APHA 3111 A+B, 23 rd Ed. 2017	0.00632 mg/L
Zinc (Zn)	APHA 3111 A+B, 23 rd Ed. 2017	0.01055 mg/L
Arsenic (As)	APHA 3111 A+B, 23 rd Ed. 2017	0.0146 mg/L
Mercury (Hg)	USEPA-7473	0.9 µg/L

Note: General metal digested in 1:100 ratio
Chromium VI extracted in 1:20 ratio
Analysed by Head Office, Delhi