

In the matter of:

Jagroop Singh Surjewala

.....Applicant

Versus

State of Haryana & others

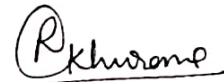
.....Respondent(s)

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Date: 30.01.2025

Place: New Delhi



Through
Rahul Khurana, Advocate
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BEFORE THE NATIONAL GREEN TRIBUNAL,
PRINCIPAL BENCH, NEW DELHI

Original Application No. 1218 OF 2024

In the matter of:

Jagroop Singh SurjewalaApplicant

Versus

State of Haryana & othersRespondent(s)

Short Reply by way of affidavit of Ashwani, Regional Officer, Jind, HSPCB, containing the consolidated annual report, submitted to the Central Pollution Control Board (CPCB) on the issue of implementation of Solid Waste Management Rules, 2016

I, the above named deponent, do hereby solemnly affirm and declare as under:

1. That the above mentioned Original Application (OA) is pending before this Hon'ble Court and is now fixed for 31.01.2025. It is submitted that the deponent is well conversant with the facts of the present matter and duly authorized in official capacity to file the present reply affidavit before this Hon'ble Court on behalf of Haryana State Pollution Control Board.
2. In the present OA, this Hon'ble Tribunal was pleased to issue directions to the respondents to the effect that Respondent No. 5 to produce a copy of the annual report submitted in the year 2023 in form IV in terms of the above rule and also require the Haryana State Pollution Control Board (HSPCB)/Respondent No. 3 to submit a copy of the consolidated annual report submitted to the Central Pollution Control Board (CPCB) and Ministry of Urban Development in form V.



3. That in compliance of the above mentioned direction of this Hon'ble Tribunal, the consolidated Annual Report is submitted with the present affidavit before this Hon'ble Tribunal. Copy of the consolidated Annual Report is annexed as **Annexure R-2/1**.
4. That answering respondent shall also file additional reply after examining the Action plan to be received from concerned civic agencies and verification of remedial measures claimed to be taken on the issues raised in the present OA.

Place: Jind
Date: 30.01.2025


Deponent

VERIFICATION:

Verified that the contents of Para No. 1 to 4 of the above affidavit are true and correct to my knowledge based on the information derived from official records. No part of it is false and nothing material has been concealed therein.

Place: Jind
Date: 30.01.2025


Deponent

Attested as Identified


NOTARY DISTT., JIND

30/1/25

Format of annual report to be submitted by the state pollution control board or pollution control committee committees to the central pollution control board

PART A

1	Name of the State/Union territory	Haryana
2	Name & address of the State Pollution Control	Haryana State Pollution Control Board, C-11, Sector-6, Panchkula, Haryana
3	Number of local bodies responsible for management of solid waste in the State/Union territory under these rules	88
4	No. of authorization application Received	2
5	A Summary Statement on progress made by local body in respect of solid waste management	Annexure-I
6	A Summary Statement on progress made by local bodies in respect of waste collection, segregation, transportation and disposal	Annexure-II
7	A summary statement on progress made by local bodies in respect of implementation of Schedule II	Annexure- III

Part-B**Towns/cities:-**

- | | |
|--|----|
| 1) Total number of towns/cities | 88 |
| 2) Total number of ULBs | 88 |
| 3) Number of class I & class II cities/towns | 29 |

Authorization status (names/number):-

- | | |
|-------------------------------------|---|
| 1) Number of applications received | 2 |
| 2) Number of authorizations granted | 2 |
| 3) Authorizations under scrutiny | 0 |

Solid Waste Generation status:-

	(ULBD and Panchayat	Development & Department)
1) Solid waste generation in the state (TPD)	9662.21	
2) Collected (TPD)	7248.72	
3) Treated (TPD)	4859.31	
4) Land filled/Dumped (TPD)	2213.31	

Compliance to Schedule I of SW Rules (Number/names of towns/city):-

- | | |
|-----------------------------------|--------------|
| 1) Good practices in cities/towns | Yes(overall) |
| 2) House-to-house collection | 98% |
| 3) Segregation | 80% |
| 4) Storage | Yes(Partial) |
| 5) Covered transportation | 88% |

Processing of SW (Number/names of towns/capacity)**Solid waste processing facilities setup (MC Wise)**

Sr. no.	Composting	Vermi composting	Bio gas	RDF / Palletization
1.	3 Plants in 3 MCs 3200 composting Pits. including park pit in 88 MCs	10	3	3 Plant Waste to Compost+ RDF in 3 MCs

Processing facility operational

Sr. no.	Composting	Vermi composting	Bio gas	RDF / Palletization
1.	3 Plants in 3 MCs 3200 composting Pits including park pit in 88 MCs	12	3	3 Plant Waste to Compost+ RDF in 3 MCs

Processing facility under installation / planned

Sr. no.	Composting	Vermi composting	Bio gas	RDF / Palletization
	<p>The State of Haryana has been divided into 13 Integrated Solid Waste Management Clusters to provide end to end solution for the management of solid waste generated under 88 ULBs of Haryana. Out of 13 clusters, the works for 5 clusters have been allotted.</p> <p>As 2 out of remaining 8 Clusters, namely ISWM Panchkula cluster and ISWM Farukh Nagar cluster are facing problem in allocating the suitable land for ISWM project, the proposal for merging these two clusters into other cluster clusters is under approval. Hence, there are currently 11 Clusters.</p> <p>11 clusters are based on open technology and the selected agency to decide the technology. Out of these 11 Clusters, 3 clusters namely Karnal-Kaithal-Thanesar Cluster (638 TPD), Bhiwani Cluster (155) and Sirsa Cluster (168TPD) have been awarded to the agencies which are under implementation and these clusters are based on waste to compost technology and the concessionaires of the respective clusters have started the work of collection and transportation of waste. Tender for rest 8 Clusters will be invited shortly</p> <p>Sonipat-Panipat (700 TPD) waste to energy plant is completed on 15, August, 2021 and is operational with the power generation of 8MW. The construction of WTE Plant at Gurugram- Faridabad cluster is expected to be completed by August 2025.</p>			

Waste to energy plants (Number / names of towns / capacity)

Sr. no.	Plant location	Status of operation	Power generation (MW)	Remarks
1.	Sonipat	Operational	8	Started on 15, August 2021 and operational.
2.	Gururgram (Bhandwari)	Under implementation	23	The construction of WTE Plant(cluster) at Gururgram-Faridabad is expected to be completed by August 2025

Disposal of Solid Waste (number/names of towns/ capacity):-

1) Landfill sites identified	7 Existing and 11 Proposed.
2) Landfill constructed	7
3) Landfill under construction	NIL
4) Landfill in operation	3
5) Landfill exhausted	4
6) Land filled capped	NIL

Solid Waste Dumpsites (number/names of towns/capacity):-

1) Total number of existing dumpsites:-	75
2) Dumpsites reclaimed/capped:-	20 Dumpsites has been reclaimed.
3) Dumpsites converted to sanitary landfill:-	Nil

Monitoring at Waste processing/Landfills sites:-

Sr. no.	Name of Facilities	Ambient Air	Ground Water	Leachate Quality	Compost Quality	VOCs
1	Solid Waste Management Project Karnal Vpo Shiekhpora, Karnal	AR attached	AR attached	AR attached	NA	NA
2	Integrated Solid Waste Report Management Facility at attached Murthal Village, Sonipat District, Haryana by Directorate of Urban Local Bodies C/O JBM Environment Management Private Limited Near 132 KV HVPNL Substation, Tajpur-Murthal Road,	AR attached	AR attached	AR attached	Waste to energy plant, no composting carried out by the unit.	-

	Murthal Village, Sonipat, Haryana- 131027					
3	M/s Tubewell at MSW site , Ambala road, Jagadhri	-	AR attached	-	-	-
4	Waste collection point at Village Binjhol, Panipat	No monitoring done	AR attached	No Leachate	No processing done at the Binjhol site, waste is sent to Sonapat for processing	No monitoring done
5	Location : Near Municipal Solid Waste Dumping Site (Baba Chander Bhan Market, Bhiwani)	-	(AR attached	-	-	-
	Location : Near Municipal Solid Waste Dumping Site (Auto Market, Bhiwani)	-	AR attached	-	-	-
	Location : Near Municipal Solid Waste Dumping Site (Auto Market- II, Bhiwani)	-	AR attached	-	-	-
	Location : Near Municipal Solid Waste Dumping Site (Shree Shyam Motor Works Bhiwani)	-	AR attached	-	-	-
6	M/s IMFMH facility Municipal corporation Ambala,vill patvi teh shahjadpur ambala	AR attached	AR Attached	-	AR attached	AR attached
7	Common MSW management facility at village Bhandhwari, Distt Gurugram	-	AR attached	AR attached	-	-

Status of Action Plan prepared by Municipalities:-

Total number of Municipalities

88

Number of Action Plan Submitted

Vide letter memo no. Tech/SBM/2022/5035 dated 29.08.2022, action plan for legacy waste and ISWM Cluster already submitted to MoHUA for the funds tune to the Rs. 105.27 Cr. and 155.00 Cr. for ISWM cluster & Legacy waste.

Sub: Summary Statement on progress by Local Bodies in respect of Solid Waste Management

As per the annual report submitted by Urban Local Bodies (ULB) department, there are 88 Urban Local Bodies in the State. All these 88 nos. of ULBs are generating about 6387 Tons per day (TPD) of municipal solid waste, out of which 6375 TPD is collected. Out of total collected waste, 4161 TPD is being treated/processed and remaining 2213 TPD waste is being Landfill/dumped.

Total 13 Integrated Solid Waste Management clusters have been formed in Haryana. Out of 13 clusters, 2 waste to energy clusters namely Sonipat-Panipat & Gurugram-Faridabad WTE are under implementation. Sonipat-Panipat (700 TPD) waste to energy plant is completed on 15 August, 2021. The construction of WTE Plant at Gurugram- Faridabad cluster has been started and is expected to be completed by August 2025.

11 clusters are based on open technology and the selected agency to decide the technology. Out of these 11 Clusters, 3 clusters namely Karnal-Kaithal-Thanesar Cluster (638 TPD), Bhiwani Cluster (155) and Sirsa Cluster (168 TPD) have been awarded to the agencies which are under implementation and these clusters are based on waste to compost technology and the concessionaires of the respective clusters have started the work of collection and transportation of waste. Tender for rest 8 Clusters will be invited shortly. The details of the clusters are attached at **Table-1**.

Urban local bodies are doing collection of domestic, trade and institutional food/ biodegradable waste from the doorstep or from the community bin on daily basis. Local bodies are using containerized handcarts/tricycles/ Tractor Trolley / Refuse Compactor or other similar means for the primary collection of waste stored at various sources of waste generation. The solid waste thus collected from households and other sources is transported to Primary Collection Centre, where, the waste would be primarily segregated i.e. recyclables are sorted out by the workers and stored separately. For secondary transportation of solid waste from the Primary Collection Centre to the designated processing plant site or sanitary landfill site/ dumping sites, Dumper Placers with twin bin containers are provided.

Table:- 1**Integrated Solid Waste Management Cluster Projects in Haryana**

S.N.	Name of Cluster	Number of ULBs	Name of ULBs in the cluster	Estimated Capacity in (TPD)
1.	Sonipat-Panipat	4	Sonipat, Panipat, Gannaur, Samalkha	700
2.	Faridabad-Gurugram	2	Faridabad, Gurugram	2100
3.	Karnal-Kaithal-Thanesar	18	Karnal, Indri, Nilokheri, Tarori, Gharaunda, Nissing, Assandh, Thanesar, Shahbad, Ladwa, Kaithal, Kalayat, Rajound, Cheeka, Pundri, Pehowa, Ismailabad, Siwan	638
4.	Bhiwani	4	Bhiwani, Bawani Khera, Charkhi Dadri, Loharu	155
5.	Sirsa	5	Sirsa, Rania, Ellenabad, Kalanwali, Mandi Dabwali	168
6.	Ambala-Yamunanagar-Panchkula	9	Ambala, Ambala Sadar, Naraingarh, Panchkula, Kalka, Yamunanagar-Jagadhari, Barara, Radaur, Sadhaura	760
7.	Rohtak-Bahadurgarh-Jhajjar	12	Rohtak, Kalanaur, Meham, Gohana, Bahadurgarh, Kundli, Kharkhoda, Jhajjar, Sampla, Beri, Farukhnagar, Pataudi- Mandi	640
8.	Hisar- Hansi-Fatehabad	11	Hisar, Adampur, Barwala, Hansi, Siwani, Fatehabad, Bhuna, Ratia, Tohana, Jakhhal Mandi, Uklana	500
9.	Jind	6	Jind, Narwana, Uchana, Safidon, Narnaund, Julana	230

S.N.	Name of Cluster	Number of ULBs	Name of ULBs in the cluster	Estimated Capacity in (TPD)
10.	Manesar- Rewari	9	Manesar, Rewari, Bawal, Dharuhera, Mahendergarh, Kanina, Nangal Choudhary, Narnaul, Ateli-Mandi	470
11.	Palwal-Sohna	8	Palwal, Sohna, Hathin, Hodal, Nuh, Tauru, Punhana, Firozpur Jhirka	250

Sub: Summary Statement on progress made by Local Bodies in respect of waste collection, segregation, transportation and disposal.

As per the status submitted by ULB department, the detail on progress made by Local Bodies in respect of waste collection, segregation, transportation and disposal is given below:

A. Waste Collection

Door to door collection is being done in around 1671wards out of 1702 wards (Approx. 98%) and existing waste collection vehicles are being modified into two covered compartments for collection of waste in segregated manner. Freshly deployed vehicles are having two covered compartments for collection of wet and dry waste in a segregated manner. A Separate basket/bin is kept in waste collection vehicle/ tricycle for segregated collection of domestic hazardous waste.

Urban local bodies are doing collection of domestic, trade and institutional food/ biodegradable waste from the doorstep or from the community bin on a daily basis. Large containers kept in the fruit and vegetable markets and removed during night time or non-peak hours by the local body.

B. Transportation

Local bodies are using covered containerized handcarts/tricycles/ Tractor Trolley/Refuse Compactor or other similar means for the primary collection of waste stored at various sources of waste generation. Existing waste collection vehicles are being modified into two covered compartments for collection of waste in segregated manner. Deployed vehicles are having two covered compartments for collection of wet and dry waste in a segregated manner. For secondary transportation of solid waste from the Primary Collection Centre to the designated processing plant site or sanitary landfill site, "Dumper Placers with twin bin containers" is provided.

C. Segregation

Out of 1702 wards, source segregation has been achieved in 1369 wards (Approx. 80%) and for coverage in remaining wards, rigorous IEC campaign is being organized across the State in all ULBs.

D. Disposal

Rejects and residues collected from the above-mentioned processes are disposed in dumping sites and further processed for energy. Presently, there are (3 plants in 3 MCs 3200 Composting Pits including park pits in 88 MCs), (10 nos. Vermi Composting Facilities), (3 nos Bio Gas Plant) and (3 plant waste to compost +RDF in 3 MCs). Total 18 nos of landfill have been identified out of which 7 no. are existing and 11 are proposed. 3 no. of landfill are operational and 4 are exhausted.

Sub: Summary Statement on progress made by Local Bodies in respect of implementation of Schedule-II.

Presently there are (3 plants in 3 MCs 3200 Composting Pits including park pits in 88 MCs), (10 nos. Vermi Composting Facilities), (3 nos. Bio Gas Plant) and (3 plant waste to compost +RDF in 3 MCs) in the State of Haryana.

The approach adopted by the state is broadly categorized under two heads,

a. Decentralized Approach (Town/City Wise)

Decentralized Approach is being adopted with an objective to create an atmosphere which impacts the ideology and mind set of people as to how important is their role in ensuring effective and efficient waste management with minimal resources and which is self-driven.

As part of this approach presently around 3200 Compost pits including park pits have been constructed across all the ULBs Also 88Material Recovery Facilities have been set up and the target is to reach 114 MRF, within a span of next 3 months with each ULB having at-least 1(One) MRF Apart from setting up Compost pits, Vermi Composting facility, Bio-methanation plant, windrow composting at existing dumpsite is being currently practiced. Also, in Karnal city alone approx. 2000 Household composting pits have been recorded.

All the ULBs have also ensured that all the Bulk Waste Generators are identified and have started processing their wet waste, this resulted in overall reduction in volume of wet waste being sent for disposal.

The nos. pertaining to Compost pits, Household composting, Wet Waste Processing through Vermi-Composting, Windrow composting and bio-methanation and dry waste recovery, reuse and recycling through MRFS are continuously increasing and all the efforts are being made to improve the Solid Waste Management Scenario in time bound manners.

b. Integrated Centralized Waste Processing Approach (Cluster Wise)

As per action plan submitted by ULB department. Government of Haryana has adopted cluster based integrated approach for Solid Waste Management. The Integrated Centralized Waste Processing Approach (Cluster Wise) is being adopted as a long-term approach within an overall objective to setup regional Waste to Energy & Waste to Compost + RDF processing facilities and Secured Sanitary landfills for scientific disposal of Solid Waste. This approach is more coveted considering the constraints posed by the decentralized approach and its sustainability over long run.

As part of this approach, total 13 Cluster have been formed covering all the ULBs. Two (2) Clusters are Waste to Energy having average solid waste quantum more than 500 TPD and remaining Eleven (11) are Open technology cluster. Also, under this approach the projects will be set up on PPP mode and single agency/concessionaire will be responsible for Door-to-Door Collection transportation, processing and disposal of Solid Waste for a concession period of 22 years.

Currently 2 Waste to Energy Cluster Projects namely Sonipat-Panipat and Gurugram-Faridabad and 3 Waste to Compost Projects namely Karnal-Kaithal-Thanesar Cluster (638 TPD), Bhiwani Cluster (155TPD) and Sirsa Cluster (168TPD) have been awarded. The Waste to Energy Plant at Sonipat-Panipat Cluster (700 TPD) is completed and is operational since 15th August 2021. The construction of plants at Gurugram-Faridabad Cluster, Karnal-Kaithal-Thanesar Cluster (638 TPD), Bhiwani Cluster (155TPD)

and Sirsa Cluster has been started and the plant is under implementation. Collection & Transportation has been Started by the Concessionaire. The Remaining 8 clusters are based on open technology and the selected agency to decide the technology.

Also, there are two existing operational centralized waste to compost processing facilities in the State i.e. Rohtak (150 TPD) & Karnal (150 TPD). Under this approach these plants will be upgraded and expanded to cater the future waste generation requirements.

The sites have been identified for all the clusters and the tendering is under progress.

ITS TESTING LABORATORY (P) LTD.

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Report Code: AAQ-101123-03, Page – 1 of 2

TEST REPORT**Ambient Air Quality Analysis**

Report Code: AAQ-101123-03

Issue Date: 17/11/2023

ISSUED TO: M/S. PIONEER FOUNDATION ENGINEERS PVT. LTD.

Office No. – 1217, Tower – B, The I-Thum, A – 40, Block – A, Sector – 62, Noida, (U.P.)

Site Address: Legacy Waste Dump Site, Patwi, Ambala, Haryana

SAMPLING & ANALYSIS DATA

Sample Description	:	Ambient Air
Date of Sampling	:	09/11/2023
Sample Drawn By	:	ITS Representative
Sampling Location	:	Near Plant Area
Sampling Plan & Procedure	:	IS:5182 & CPCB Guidelines
Average Flow Rate of SPM (m ³ /min.)	:	1.11
Average Flow Rate of Gases (lpm)	:	0.2
Sampling Instrument Used	:	Respirable Dust Sampler (PM ₁₀) Fine Particulate Sampler (PM _{2.5}) With Gaseous Attachment
Ambient Temperature & Humidity	:	28 ^o C & 69%
Weather Condition	:	Clear
Sample Received On	:	10/11/2023
Analysis Duration	:	10/11/2023 To 17/11/2023

TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	204.8	µg/m ³	100
2.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	27.2	µg/m ³	80
3.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	59.9	µg/m ³	80
4.	Ammonia (as NH ₃)	IS:5182 Part-XXV	284	µg/m ³	400
5.	Lead (as Pb)	IS:5182 Part-XXII	<0.1	µg/m ³	1.0
6.	Ozone (as O ₃)	IS:5182 Part-IX	27.6	µg/m ³	180
7.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	1.28	µg/m ³	5.0

CHECKED BY



AUTHORIZED SIGNATORY

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Report Code: AAQ-101123-03, Page – 2 of 2

8.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	121	µg /m ³	60
9.	Carbon monoxide (as CO)	IS:5182 Part-X	1.40	mg/m ³	4.0
10.	Benzo (a) Pyrine	IS:5182 Part-XI	0.39	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0


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TEST REPORT**Ambient Noise Analysis**

Report Code: N-101123-03

Issue Date: 17/11/2023

ISSUED TO: M/S. PIONEER FOUNDATION ENGINEERS PVT. LTD.

Office No. – 1217, Tower – B, The I-Thum, A – 40, Block – A, Sector – 62, Noida, (U.P.)

Site Address: Legacy Waste Dump Site, Patwi, Ambala, Haryana

SAMPLING & ANALYSIS DATA

Sample Description : Ambient Noise
Date of Sampling : 09/11/2023
Sample Drawn By : ITS Representative
Sampling Location : Inside Plant Area
Sampling Plan & Procedure : ITS/LAB/SOP/N/02
Sampling Instrument Used : Noise Meter
Weather Condition : Clear
Sample Received On : 10/11/2023
Analysis Duration : 10/11/2023 To 17/11/2023

TEST RESULTS

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB (A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL	71.6	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
				Residential Area	55	45
				Silence Zone	50	40

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TEST REPORT

RDF Sample Analysis

Report Code: SL: 101123-06

Issue Date: 17/11/2023

ISSUED TO: M/S. PIONEER FOUNDATION ENGINEERS PVT. LTD.

Office No. – 1217, Tower – B, The I-Thum, A – 40, Block – A, Sector – 62, Noida, (U.P.)

Site Address: Legacy Waste Dump Site, Patwi, Ambala, Haryana

Sampling & Particulate Detail

Sample Description : RDF Sample
Date of Sampling : 09/11/2023
Sample Drawn By : ITS Representative
Sample Quantity : 1.0 Kg in Zip Poly Bag
Sample Condition : Plastic Packed Good Condition
Sample Received On : 10/11/2023
Analysis Duration : 10/11/2023 To 17/11/2023

TEST RESULTS

S. No.	Name of Parameters	Protocol Used	Observe Value
1.	Gross Calorific Value, KCal /Kg	IS:1350(Pt-II) 1970 Reaff-2002	4164
2.	Proximate Analysis % by mass		
(a)	Ash (%by mass)	IS:1350(Pt-I) 1984, Reaff-2007 Guidelines	19.75
(b)	Volatile Matter (%by mass)	IS:1350(Pt-I) 1984, Reaff-2007 Guidelines	57.29
(c)	Fixed Carbon (by Diff.) (%by mass)	IS:1350(Pt-I) 1984, Reaff-2007 Guidelines	7.14
(d)	Total Moisture Content (%by mass)*	IS:1350(Pt-I) 1984, Reaff-2007 Guidelines	15.82


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Report Code: W-101123-04, Page 1 of 2

TEST REPORT**Water Sample Analysis**

Report Code: W-101123-04

Issue Date: 17/11/2023

ISSUED TO: M/S. PIONEER FOUNDATION ENGINEERS PVT. LTD.

Office No. – 1217, Tower – B, The I-Thum, A – 40, Block – A, Sector – 62, Noida, (U.P.)

Site Address: Legacy Waste Dump Site, Patwi, Ambala, Haryana

Sample Description	: Ground Water Sample
Date of Sampling	: 09/11/2023
Sample Drawn By	: ITS Representative
Sample Location	: Inside Plant Area
Sample Quantity	: 2.0 Ltr. in Pet Bottle & 500 ml in Sterilized Glass Bottle
Sample Condition	: Plastic Packed Good Condition
Sample Received On	: 10/11/2023
Analysis Duration	: 10/11/2023 To 17/11/2023

TEST RESULTS

S. No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	pH value	IS-3025(P-04)	7.55	-	6.5-8.5	-
2.	Total dissolve solids (TDS)	IS-3025(P-16)	400	mg/l	500	2000
3.	Chloride (as Cl)	IS: 3025 (P- 32)	88.5	mg/l	250	1000
4.	Fluoride (as F)	IS: 3025 (P-60)	0.34	mg/l	1.0	1.5
5.	Iron (as Fe)	IS: 3025(P-53)	0.162	mg/l	1.0	-
6.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	2.78	mg/l	45	No Relaxation
7.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	39.2	mg/l	200	400
8.	Alkalinity (as CaCO ₃)	IS: 3025 (P- 23)	172	mg/l	200	600
9.	Total Hardness (as CaCO ₃)	IS: 3025 (P- 23)	164	mg/l	200	600
10.	Total Suspended Solids	IS:3025(Part-17)	<1.0	mg/l	-	-
11.	Chemical Oxygen Demand (as O ₂)	IS:3025(Part-58)	<4.0	mg/l	-	-
12.	Biological Oxygen Demand (at 27°C for 3 days)	IS:3025(Part-44)	<2.0	mg/l	-	-
13.	Total Kjeldahal Nitrogen	IS:3025(Part-34)	BDL	mg/l	-	-
14.	Total Ammonical Nitrogen	IS:3025(Part-34)	BDL	mg/l	-	-
15.	Conductivity @ 25°C	IS:3025(Part-14)	645	µS/cm	-	-

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ITS TESTING LABORATORY (P) LTD.

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)

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Report Code: W-101123-04, Page 2 of 2

S. No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
16.	Cyanide (as CN)	IS-3025(P-27)	BDL	mg/l	0.05	No Relaxation
17.	Phenol Compound (as C ₆ H ₅ OH)	IS: 3025 (P-43)	BDL	mg/l	0.001	0.002
18.	Copper (as Cu)	IS : 3025 (P-42)	BDL	mg/l	0.05	1.5
19.	Mercury (as Hg)	IS-3025(P-48)	BDL	mg/l	0.001	No Relaxation
20.	Cadmium (as Cd)	IS-3025(P-41)	BDL	mg/l	0.003	No Relaxation
21.	Arsenic (as As)	IS-3025(P-37)	BDL	mg/l	0.01	0.05
22.	Zinc (as Zn)	IS: 3025 (P- 49)	BDL	mg/l	5.0	15
23.	Lead (as Pb)	IS-3025 (P-47)	BDL	mg/l	0.01	No Relaxation
24.	Nickel (as Ni)	IS-3025 (P-47)	BDL	mg/l	0.02	No Relaxation
25.	Total Chromium (as Cr)	IS:3025(Part-52)	BDL	mg/l	0.05	No Relaxation

Microbiological:

RESULTS				
S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	Escherichia coli	IS-1622:1981	Absent	Absent/100ml
2.	Coliform Bacteria	IS-1622:1981	Absent	Absent/100ml

BDL: Below Detection limit.


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Report Code: W-101123-05, Page 1 of 2

TEST REPORT

Water Sample Analysis

Report Code: W-101123-05

Issue Date: 17/11/2023

ISSUED TO: M/S. PIONEER FOUNDATION ENGINEERS PVT. LTD.

Office No. – 1217, Tower – B, The I-Thum, A – 40, Block – A, Sector – 62, Noida, (U.P.)

Site Address: Legacy Waste Dump Site, Patwi, Ambala, Haryana

Sample Description	: Ground Water Sample
Date of Sampling	: 09/11/2023
Sample Drawn By	: ITS Representative
Sample Location	: Outside Plant Area
Sample Quantity	: 2.0 Ltr. in Pet Bottle & 500 ml in Sterilized Glass Bottle
Sample Condition	: Plastic Packed Good Condition
Sample Received On	: 10/11/2023
Analysis Duration	: 10/11/2023 To 17/11/2023

TEST RESULTS

S. No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	pH value	IS-3025(P-04)	7.28	-	6.5-8.5	-
2.	Total dissolve solids (TDS)	IS-3025(P-16)	360	mg/l	500	2000
3.	Chloride (as Cl)	IS: 3025 (P- 32)	79.5	mg/l	250	1000
4.	Fluoride (as F)	IS: 3025 (P-60)	0.28	mg/l	1.0	1.5
5.	Iron (as Fe)	IS: 3025(P-53)	0.146	mg/l	1.0	-
6.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	2.16	mg/l	45	No Relaxation
7.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	31.8	mg/l	200	400
8.	Alkalinity (as CaCO ₃)	IS: 3025 (P- 23)	160	mg/l	200	600
9.	Total Hardness (as CaCO ₃)	IS: 3025 (P- 23)	148	mg/l	200	600
10.	Total Suspended Solids	IS:3025(Part-17)	<1.0	mg/l	-	-
11.	Chemical Oxygen Demand (as O ₂)	IS:3025(Part-58)	<4.0	mg/l	-	-
12.	Biological Oxygen Demand (at 27°C for 3 days)	IS:3025(Part-44)	<2.0	mg/l	-	-
13.	Total Kjeldahal Nitrogen	IS:3025(Part-34)	BDL	mg/l	-	-
14.	Total Ammonical Nitrogen	IS:3025(Part-34)	BDL	mg/l	-	-
15.	Conductivity @ 25 ⁰ C	IS:3025(Part-14)	580	μS/cm	-	-

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Report Code: W-101123-05, Page 2 of 2

S. No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
16.	Cyanide (as CN)	IS-3025(P-27)	BDL	mg/l	0.05	No Relaxation
17.	Phenol Compound (as C ₆ H ₅ OH)	IS: 3025 (P-43)	BDL	mg/l	0.001	0.002
18.	Copper (as Cu)	IS : 3025 (P-42)	BDL	mg/l	0.05	1.5
19.	Mercury (as Hg)	IS-3025(P-48)	BDL	mg/l	0.001	No Relaxation
20.	Cadmium (as Cd)	IS-3025(P-41)	BDL	mg/l	0.003	No Relaxation
21.	Arsenic (as As)	IS-3025(P-37)	BDL	mg/l	0.01	0.05
22.	Zinc (as Zn)	IS: 3025 (P- 49)	BDL	mg/l	6.0	15
23.	Lead (as Pb)	IS-3025 (P-47)	BDL	mg/l	0.01	No Relaxation
24.	Nickel (as Ni)	IS-3025 (P-47)	BDL	mg/l	0.02	No Relaxation
25.	Total Chromium (as Cr)	IS:3025(Part-52)	BDL	mg/l	0.05	No Relaxation

Microbiological:

RESULTS				
S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	Escherichia coli	IS-1622:1981	Absent	Absent/100ml
2.	Coliform Bacteria	IS-1622:1981	Absent	Absent/100ml

BDL: Below Detection limit.

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Terms & Conditions :

1. Test reports are valid only for the samples tested in our laboratory. 2. Samples will be destroyed as per quality policy. 3. Any complaints about the report should be communicated in writing within 7 days.

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TEST REPORT**Bio-Compost Sample Analysis**

Report Code: SL: 101123-05

Issue Date: 17/11/2023

ISSUED TO: M/S. PIONEER FOUNDATION ENGINEERS PVT. LTD.

Office No. – 1217, Tower – B, The I-Thum, A – 40, Block – A, Sector – 62, Noida, (U.P.)

Site Address: Legacy Waste Dump Site, Patwi, Ambala, Haryana

Sampling & Particulate Detail

Sample Description	:	Bio Earth Compost Sample
Date of Sampling	:	09/11/2023
Sample Drawn By	:	ITS Representative
Sample Quantity	:	2.0 Kg in Zip Poly Bag
Sample Condition	:	Plastic Packed Good Condition
Sample Received On	:	10/11/2023
Analysis Duration	:	10/11/2023 To 17/11/2023

TEST RESULT

S. No.	Parameter	Test Method	Result	Unit
1.	pH (1:2 suspension)	IS:2720(Part-26)	7.66	-
2.	Electrical Conductivity at 25 ^o C (1:2suspension.)	IS:2720(Part-21)	1.581	dS/cm
3.	Moisture Content	IS:2770-01-2011	26.8	%
4.	Particle Size	IS:2770-04-2004	96.7	% Qty pass through 4 mm sieve
5.	Bulk Density	ISO-11272-1998	0.72	gm/cm ³
6.	Total Viable Count (N,P,K and Zn)	APHA-21 st Edit.	3.9×10 ⁶	-
7.	Total Nitrogen	IS: 10158:1982	1.495	% By mass
8.	Total Phosphate (as P ₂ O ₅)	IS: 10158:1982	0.817	% By mass
9.	Total Potassium (as K ₂ O)	IS: 10158:1982	0.438	% By mass
10.	Total Organic Carbon	IS:2720 (P-21)	0.84	% By mass
11.	Arsenic (as As)	US EPA-3050B	BDL	mg/kg
12.	Mercury (as Hg)	US EPA-3050B	BDL	mg/kg
13.	Lead (as Pb)	US EPA-3050B	1.94	mg/kg
14.	Cadmium (as Cd)	US EPA-3050B	BDL	mg/kg
15.	Chromium (as Cr)	US EPA-3050B	BDL	mg/kg
16.	Hexavalent Chromium (as Cr+6)	US EPA-3050B	BDL	mg/kg
17.	Copper (as Cu)	US EPA-3050B	5.58	mg/kg
18.	Zinc (as Zn)	US EPA-3050B	34.72	mg/kg
19.	Nickel (as Ni)	US EPA-3050B	BDL	mg/kg

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Terms & Conditions :

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ITS TESTING LABORATORY (P) LTD.

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TEST REPORT**Soil Sample Analysis**

Report Code: SL: 101123-04

Issue Date: 17/11/2023

ISSUED TO: M/S. PIONEER FOUNDATION ENGINEERS PVT. LTD.

Office No. – 1217, Tower – B, The I-Thum, A – 40, Block – A, Sector – 62, Noida, (U.P.)


Site Address: Legacy Waste Dump Site, Patwi, Ambala, Haryana

Sampling & Particulate Detail

Sample Description	:	Soil Sample From Outside Plant Area
Date of Sampling	:	09/11/2023
Sample Drawn By	:	ITS Representative
Sample Quantity	:	1.0 Kg in Zip Poly Bag
Sample Condition	:	Plastic Packed Good Condition
Sample Received On	:	10/11/2023
Analysis Duration	:	10/11/2023 To 17/11/2023

TEST RESULT

S. No.	Parameter	Test Method	Result	Unit
1.	pH (1:2 suspension)	IS:2720(Part-26)	7.42	-
2.	Electrical Conductivity at 25 ^o C (1:2suspension.)	IS:2720(Part-21)	0.729	dS/cm
3.	Total Nitrogen	IS: 10158:1982	0.253	% By mass
4.	Total Phosphate (as P ₂ O ₅)	IS: 10158:1982	0.138	% By mass
5.	Total Potassium (as K ₂ O)	IS: 10158:1982	0.072	% By mass
6.	Total Organic Carbon	IS:2720 (P-21)	0.64	% By mass
7.	Arsenic (as As)	US EPA-3050B	BDL	mg/kg
8.	Mercury (as Hg)	US EPA-3050B	BDL	mg/kg
9.	Lead (as Pb)	US EPA-3050B	4.25	mg/kg
10.	Cadmium (as Cd)	US EPA-3050B	BDL	mg/kg
11.	Chromium (as Cr)	US EPA-3050B	BDL	mg/kg
12.	Hexavalent Chromium (as Cr+6)	US EPA-3050B	BDL	mg/kg
13.	Copper (as Cu)	US EPA-3050B	7.73	mg/kg
14.	Zinc (as Zn)	US EPA-3050B	11.59	mg/kg
15.	Nickel (as Ni)	US EPA-3050B	BDL	mg/kg

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TEST REPORT

Soil Sample Analysis

Report Code: SL: 101123-03

Issue Date: 17/11/2023

ISSUED TO: M/S. PIONEER FOUNDATION ENGINEERS PVT. LTD.

Office No. – 1217, Tower – B, The I-Thum, A – 40, Block – A, Sector – 62, Noida, (U.P.)

Site Address: Legacy Waste Dump Site, Patwi, Ambala, Haryana

Sampling & Particulate Detail

Sample Description	:	Soil Sample Near Trommel Area
Date of Sampling	:	09/11/2023
Sample Drawn By	:	ITS Representative
Sample Quantity	:	1.0 Kg in Zip Poly Bag
Sample Condition	:	Plastic Packed Good Condition
Sample Received On	:	10/11/2023
Analysis Duration	:	10/11/2023 To 17/11/2023

TEST RESULT

S. No.	Parameter	Test Method	Result	Unit
1.	pH (1:2 suspension)	IS:2720(Part-26)	7.79	-
2.	Electrical Conductivity at 25°C (1:2suspension.)	IS:2720(Part-21)	5.94	dS/cm
3.	Total Nitrogen	IS: 10158:1982	0.117	% By mass
4.	Total Phosphate (as P ₂ O ₅)	IS: 10158:1982	0.072	% By mass
5.	Total Potassium (as K ₂ O)	IS: 10158:1982	0.041	% By mass
6.	Total Organic Carbon	IS:2720 (P-21)	1.76	% By mass
7.	Arsenic (as As)	US EPA-3050B	BDL	mg/kg
8.	Mercury (as Hg)	US EPA-3050B	BDL	mg/kg
9.	Lead (as Pb)	US EPA-3050B	92.78	mg/kg
10.	Cadmium (as Cd)	US EPA-3050B	10.56	mg/kg
11.	Chromium (as Cr)	US EPA-3050B	48.27	mg/kg
12.	Hexavalent Chromium (as Cr+6)	US EPA-3050B	BDL	mg/kg
13.	Copper (as Cu)	US EPA-3050B	123.19	mg/kg
14.	Zinc (as Zn)	US EPA-3050B	82.25	mg/kg
15.	Nickel (as Ni)	US EPA-3050B	41.64	mg/kg

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Laboratory Of The
Haryana State Pollution Control Board
Vikas Sadan 1st Floor Gurgaon

Tel-2332596

Paid / Monitoring

Description

Groundwater sample from :-

1. Auto Market-1, Bhiwani

N 28° 47'3.80976" E 76°7'22.92816"

Description of the Sample: - Received on 18.08.2023 sample of Groundwater from Sh. Vijay Chaudhary, RO Bhiwani collected on 18.08.2023

Report No: 204

Dated: 22.08.2023

**ANALYSIS REPORT
RESULTS**

Sr. No.	Parameters	Groundwater
1.	Colour	Colourless
2.	Odour	Odourless
3.	pH value	6.8
4.	Suspended Solids mg/l	22
5.	B.O.D. for 3 days at 27°C mg/l	ND
6.	C.O.D. mg/l	08
7.	Oil & Grease mg/l	ND
8.	Conductivity us/cm	3680
9.	Total Dissolved Solids mg/l	1816
10.	Chlorides as Cl mg/l	465
11.	Sulphide as S mg/l	ND
12.	Total Hardness as CaCO ₃ mg/l	810
13.	Fluoride as F mg/l	ND
14.	Iron as Fe mg/l	ND
15.	Phosphate as P mg/l	ND
16.	Nickel as Ni mg/l	ND
17.	Total Chromium as Cr mg/l	ND
18.	Zinc as Zn mg/l	ND
19.	Calcium as Ca mg/l	216.6
20.	Magnesium mg/l	97.1
21.	Sulphate as SO ₄ mg/l	188.4
22.	Sodium mg/l	248.2
23.	Dissolved Oxygen, mg/l	5.4
24.	Boron as B mg/l	ND
25.	Nitrite (NO ₂) mg/l	ND
26.	Nitrate (NO ₃) mg/l	ND
27.	Turbidity NTU	1.7
	Sample Collected/Not Collected by us	
	Sample Consumed in testing	

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Dated 22-8-23

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Laboratory Of The
Haryana State Pollution Control Board
Vikas Sadan Ist Floor Gurgaon

Tel-2332596

Paid / Monitoring

Description:-

Groundwater sample from :-

1. Baba Chandar Bhan Market, Bhiwani
N 28° 46'56.21196" E 76° 7'18.45876"

Report No: 203

Dated: 22.08.2023

Description of the Sample: - Received on 18.08.2023 sample of Groundwater from Sh. Vijay Chaudhary, RO collected on 18.08.2023

**ANALYSIS REPORT
RESULTS**

Sr. No.	Parameters	Groundwater
1.	Colour	Colourless
2.	Odour	Odourless
3.	pH value	6.7
4.	Suspended Solids mg/l	12
5.	B.O.D. for 3 days at 27°C mg/l	ND
6.	C.O.D. mg/l	ND
7.	Oil & Grease mg/l	ND
8.	Conductivity us/cm	5890
9.	Total Dissolved Solids mg/l	3276
10.	Chlorides as Cl mg/l	940
11.	Sulphide as S mg/l	ND
12.	Total Hardness as CaCO ₃ mg/l	1475
13.	Fluoride as F mg/l	ND
14.	Iron as Fe mg/l	ND
15.	Phosphate as P mg/l	ND
16.	Nickel as Ni mg/l	ND
17.	Total Chromium as Cr mg/l	ND
18.	Zinc as Zn mg/l	ND
19.	Calcium as Ca mg/l	349.3
20.	Magnesium mg/l	148.6
21.	Sulphate as SO ₄ mg/l	282.2
22.	Sodium mg/l	316.4
23.	Dissolved Oxygen, mg/l	5.5
24.	Boron as B mg/l	ND
25.	Nitrite (NO ₂) mg/l	ND
26.	Nitrate (NO ₃) mg/l	ND
27.	Turbidity NTU	2.6
	Sample Collected/Not Collected by us	
	Sample Consumed in testing	

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Dated 22-8-23

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Laboratory Of The
Haryana State Pollution Control Board
Vikas Sadan Ist Floor Gurgaon

Tel-2332596

Paid / Monitoring

Description:-

Groundwater sample from :-

1. Shri Shyam Motorworks, Bhiwani
N 28° 46'47.0928" E 76°7'23.30148"

Report No: 206

Dated: 22.08.2023

Description of the Sample: - Received on 18.08.2023 sample of Groundwater from Sh. Vijay Chaudhary, RO Bhiwani collected on 18.08.2023.

**ANALYSIS REPORT
RESULTS**

Sr. No.	Parameters	Groundwater
1.	Colour	Colourless
2.	Odour	Odourless
3.	pH value	6.7
4.	Suspended Solids mg/l	11
5.	B.O.D. for 3 days at 27°C mg/l	ND
6.	C.O.D. mg/l	ND
7.	Oil & Grease mg/l	ND
8.	Conductivity us/cm	5310
9.	Total Dissolved Solids mg/l	2652
10.	Chlorides as Cl mg/l	590
11.	Sulphide as S mg/l	ND
12.	Total Hardness as CaCO ₃ mg/l	960
13.	Fluoride as F mg/l	ND
14.	Iron as Fe mg/l	ND
15.	Phosphate as P mg/l	ND
16.	Nickel as Ni mg/l	ND
17.	Total Chromium as Cr mg/l	ND
18.	Zinc as Zn mg/l	ND
19.	Calcium as Ca mg/l	198.2
20.	Magnesium mg/l	121.9
21.	Sulphate as SO ₄ mg/l	236.4
22.	Sodium mg/l	294.8
23.	Dissolved Oxygen, mg/l	5.2
24.	Boron as B mg/l	ND
25.	Nitrite (NO ₂) mg/l	ND
26.	Nitrate (NO ₃) mg/l	ND
27.	Turbidity NTU	1.4
	Sample Collected/Not Collected by us	
	Sample Consumed in testing	

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Dated 22-8-23

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Laboratory Of The
Haryana State Pollution Control Board
Vikas Sadan Ist Floor Gurgaon

Tel-2332596

Paid / Monitoring

Description:-

Groundwater sample from :-

1. Auto Market-II, Bhiwani

N 28° 47' 4.30404" E 76° 7' 26.4126"

Description of the Sample: - Received on 18.08.2023 sample of Groundwater from Sh. Vijay Chaudhary, RO Bhiwani collected on 18.08.2023

Report No: 205

Dated: 22.08.2023

**ANALYSIS REPORT
RESULTS**

Sr. No.	Parameters	Groundwater
1.	Colour	Colourless
2.	Odour	Odourless
3.	pH value	6.6
4.	Suspended Solids mg/l	08
5.	B.O.D. for 3 days at 27°C mg/l	ND
6.	C.O.D. mg/l	04
7.	Oil & Grease mg/l	ND
8.	Conductivity us/cm	4350
9.	Total Dissolved Solids mg/l	2190
10.	Chlorides as Cl mg/l	416
11.	Sulphide as S mg/l	ND
12.	Total Hardness as CaCO ₃ mg/l	890
13.	Fluoride as F mg/l	ND
14.	Iron as Fe mg/l	ND
15.	Phosphate as P mg/l	ND
16.	Nickel as Ni mg/l	ND
17.	Total Chromium as Cr mg/l	ND
18.	Zinc as Zn mg/l	ND
19.	Calcium as Ca mg/l	242.8
20.	Magnesium mg/l	105.3
21.	Sulphate as SO ₄ mg/l	208.4
22.	Sodium mg/l	272.0
23.	Dissolved Oxygen, mg/l	5.6
24.	Boron as B mg/l	ND
25.	Nitrite (NO ₂) mg/l	ND
26.	Nitrate (NO ₃) mg/l	ND
27.	Turbidity NTU	2.1
	Sample Collected/Not Collected by us	
	Sample Consumed in testing	

HSPCB/Lab/GR/2023/789-790
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LAB INCHARGE
Dated 22-8-23

etc



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Laboratory Of The
Haryana State Pollution Control Board
Vikas Sadan Ist Floor Gurgaon

Tel-2332596

Paid / Monitoring

Description to-
Tubewell water samples from :-

1. Submersible pump of Sh. Anant Lal, Vill-Bandhwari, Gurgaon
2. Mandir Vill-Bandhwari, Gurgaon
3. Sansad Sahed Petrol Pump, Faridabad Road, Gurgaon
4. Teen Murti Hanuman Mandir, Gurgaon-Faridabad Road, Near Toll Plaza, Gurgaon
5. Sh. Lala Ram House, Near School, Vill-Bandhwari Gurgaon
6. Chanderpal House near School Bandhwari

Report No: 45

Dated: 30.05.2022

Description of the Sample: - Received on 19.05.2023 samples of Borewell Water from Sh. Manish Yadav, AEE collected on 19.05.2023

ANALYSIS REPORT
RESULTS

Sr. # Parameters	(1)	(2)	(3)	(4)	(5)	(6)
1. Colour	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless
2. Odour	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless
3. pH value	7.7	7.4	7.0	7.5	7.0	7.3
4. Suspended Solids mg/l	16	11	17	14	11	16
5. B.O.D. for 3 days at 27°C mg/l	ND	ND	ND	ND	ND	ND
6. C.O.D. mg/l	ND	ND	ND	ND	ND	ND
7. Oil & Grease mg/l	ND	ND	ND	ND	ND	ND
8. Conductivity us/cm	1610	1460	1340	1480	1680	1350
9. Total Dissolved Solids mg/l	810	768	662	776	896	684
10. Chlorides as Cl mg/l	75	95	80	105	95	80
11. Sulphide as S mg/l	ND	ND	ND	ND	ND	ND
12. Total Hardness as CaCO ₃ mg/l	145	130	140	155	125	130
13. Fluoride as F mg/l	ND	ND	ND	ND	ND	ND
14. Iron as Fe mg/l	ND	ND	ND	ND	ND	ND
15. Phosphate as P mg/l	ND	ND	ND	ND	ND	ND
16. Nickel as Ni mg/l	ND	ND	ND	ND	ND	ND
17. Total Chromium as Cr mg/l	ND	ND	ND	ND	ND	ND
18. Cyanide as CN mg/l	ND	ND	ND	ND	ND	ND
19. Zinc as Zn mg/l	ND	ND	ND	ND	ND	ND
20. Calcium as Ca mg/l	49.1	53.9	45.3	59.1	61.3	47.6
21. Magnesium mg/l	8.2	7.8	7.1	8.3	7.9	7.4
22. Sulphate as SO ₄ mg/l	46.6	52.4	48.6	42.2	56.4	48.2
23. Sodium mg/l	63.9	65.1	73.3	55.0	67.9	57.1
24. Dissolved Oxygen, mg/l	7.0	6.8	7.1	6.7	7.0	7.3
25. Boron as B mg/l	ND	ND	ND	ND	ND	ND
26. Nitrite (NO ₂) mg/l	ND	ND	ND	ND	ND	ND
27. Nitrate (NO ₃) mg/l	ND	ND	ND	ND	ND	ND
28. TKN (Total Kjeldhal Nitrogen) mg/l	ND	ND	ND	ND	ND	ND
29. Turbidity NTU	ND	ND	ND	ND	ND	ND
30. Total Coliform, MPN/100 ml	ND	ND	ND	ND	ND	ND
31. Fecal Coliform, MPN/100ml	ND	ND	ND	ND	ND	ND
32. Streptococci, MPN/100ml	ND	ND	ND	ND	ND	ND

Sample Collected/Not Collected by us
Sample Consumed in testing

HSPCB/Lab/GR/2023/ 203-204
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LAB INCHARGE
Dated 30-5-23

OTC



Laboratory Of The **117**
Haryana State Pollution Control Board
Vikas Sadan 1st Floor Gurgaon

Tel-2332596

Paid / **Monitoring**

Description

Borewell water samples from :-

1. Borewell from Police Station, Village-Banger, Gurugram
2. Borewell from Farm House, Village-Banger, Gurugram
3. Borewell from Govt. School, Baliyawas, Gurugram
4. Borewell from Ram Mandir, Gawal Pahri, Gurugram
5. Borewell from Village-Mandir, Vidya Chowk, Mandir, Gurugram

Report No: 525

Dated: 30.01.2024

Description of the Sample: - Received on 23.01.2024 samples of Tubewell Water from Sh. Aparnesh Kumar, Sc 'B', Sh. Sarjeet, JEE, MCG & Sh. OP Goyal, SBM collected on 23.01.2024.

ANALYSIS REPORT

RESULTS

Sr. No	Parameters	(1)	(2)	(3)	(4)	(5)
1.	Colour	Colourless	Colourless	Colourless	Colourless	Colourless
2.	Odour	Odourless	Odourless	Odourless	Odourless	Odourless
3.	pH value	8.0	8.0	7.9	8.0	8.0
4.	Suspended Solids mg/l	08	07	10	21	08
5.	B.O.D. for 3 days at 27°C mg/l	ND	ND	ND	ND	ND
6.	C.O.D. mg/l	04	04	04	ND	04
7.	Oil & Grease mg/l	ND	ND	ND	ND	ND
8.	Conductivity us/cm	680	1750	960	1050	910
9.	Total Dissolved Solids mg/l	340	870	530	520	450
10.	Chlorides as Cl mg/l	78	79	153	154	57
11.	Sulphide as S mg/l	ND	ND	ND	ND	ND
12.	Total Hardness as CaCO ₃ mg/l	552	544	514	446	438
13.	Fluoride as F mg/l	0.4	0.5	0.4	0.3	0.5
14.	Iron as Fe mg/l	ND	ND	ND	ND	ND
15.	Phosphate as P mg/l	ND	ND	ND	ND	ND
16.	Nickel as Ni mg/l	ND	ND	ND	ND	ND
17.	Total Chromium as Cr mg/l	ND	ND	ND	ND	ND
18.	Calcium as Ca mg/l	119	143	163	120	115
19.	Magnesium mg/l	61	45	25	34	36
20.	Sulphate as SO ₄ mg/l	32	35	30	30	35
21.	Sodium mg/l	82	83	60	23	81
22.	Dissolved Oxygen, mg/l	5.8	6.0	5.7	5.9	6.1
23.	Boron as B mg/l	ND	ND	ND	ND	ND
24.	Nitrite (NO ₂) mg/l	ND	ND	ND	ND	ND
25.	Nitrate (NO ₃) mg/l	36	25	11	07	59
26.	TKN (Total Kjeldhal Nitrogen) mg/l	ND	ND	ND	ND	ND
27.	Turbidity NTU	02	0	07	02	04
28.	Fecal Coliform, MPN/100ml	ND	ND	ND	ND	ND

Sample Collected/Not Collected by us
Sample Consumed in testing

HSPCB/Lab/GR/2024/ 2139
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LAB INCHARGE

Dated 30.1.24



REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 2297 M (I)
 Date : 01/04/2024
 Issued To : Regional Officer, Gurgaon North/Member Secretary HSPCB
 Sample Type : Ground Water
 Sample collected on dated : 21/03/2024
 Sample Collected by : Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B'.
 Sample received on dated : 21/03/2024
 Sample Location : Submersible pump of Sh. Anant Lal Village Bandhwari Gurugram 28.410428° , 77.155194°
 Sample Quantity : Unknown
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024



Sr. No.	Parameter	Protocol used	Result	Prescribed Limits	Unit
1.	Colour	----	Colorless	-----	
2.	Odour	----	Odourless	-----	
3.	pH	APHA 4500 H ⁺ B (24 th Edition 2023)	7.52	6.5-8.5	----
4.	Dissolved Solids	APHA 2540-C (24 th Edition 2023)	720	500	mg/L
5.	Total Hardness as CaCO ₃	2340-C-Titrimetric Method (24 th Edition 2023)	270	300	mg/L
6.	Chloride as Cl	IS 3025 (Part-32) :1988 (Reaffirmed 2014) Argentometric method	97.9	250	mg/L
7.	Sulphate as SO ₄	4500 SO ₄ ²⁻ - E- Turbidimetric Method (APHA 24 th Edition 2023)	41	200	mg/L
8.	Nitrate as NO ₃	4500- NO ₃ ⁻ B-UV Spectrophotometric Method (APHA 24 th Edition 2023)	140	45	mg/L
9.	Arsenic as As	3120-As- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.01	mg/L
10.	Cadmium as Cd	3120-Cd Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.001)	0.01	mg/L
11.	Hexavalent Chromium as Cr ⁺⁶	APHA 3500-Cr (B) (24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L
12.	Copper as Cu	3120-Cu- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L
13.	Lead as Pb	3120-Pb Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L

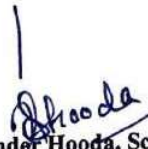
14.	Mercury as Hg	3120-Hg Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.0005)	0.01	mg/L
15.	Nickel as Ni	3120-Ni- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	-----	mg/L
16.	Iron as Ni	3500-Fe-B- Phenanthroline Method (APHA 24 th Edition 2023)	BDL (DL=0.01)	0.3	mg/L
17.	Zinc as Zn	3120-Zn Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	0.003	5.0	mg/L
18.	Phenolic Compounds as C ₆ H ₅ OH mg/l	IS 3025 (Part-43) Sec 1-2022	BDL (DL=0.0006)	0.001	mg/L

Notes:

1. The results relate only to the items tested.
2. The test report shall not be reproduced except in full without approval of the laboratory.
3. The results apply to the sample as received..
4. If sample not preserved, results may vary.

Sample analyzed by:



Varsha Sehrawat/Mohit Kumar
 Analyst / Analyst


Narender Hooda, Sc-'B'
 Regional Laboratory Faridabad

HSPCB/LAB/F/2024/

13

Dated 1-4-24



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REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 2297 M (II)
 Date : 01/04/2024
 Issued To : Regional Officer, Gurgaon North/Member Secretary HSPCB
 Sample Type : Ground Water
 Sample collected on dated : 21/03/2024
 Sample Collected by : Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, So-'B'.
 Sample received on dated : 21/03/2024
 Sample Location : Mandir Village Bandhwari Gurugram 28.423642°, 77.147977°
 Sample Quantity : Unknown
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024

Sr. No.	Parameter	Protocol used	Result	Prescribed Limits	Unit
1.	Colour	----	Colorless	----	
2.	Odour	----	Odourless	----	
3.	pH	APHA 4500 H ⁺ B (24 th Edition 2023)	6.24	6.5-8.5	---
4.	Dissolved Solids	APHA 2540-C (24 th Edition 2023)	460	500	mg/L
5.	Total Hardness as CaCO ₃	2340-C-Titrimetric Method (24 th Edition 2023)	206	300	mg/L
6.	Chloride as Cl	IS 3025 (Part-32):1988 (Reaffirmed 2014) Argentometric method	31.99	250	mg/L
7.	Sulphate as SO ₄	4500 SO ₄ ²⁻ - E-Turbidimetric Method (APHA 24 th Edition 2023)	49	200	mg/L
8.	Nitrate as NO ₃	4500- NO ₃ ⁻ B-UV Spectrophotometric Method (APHA 24 th Edition 2023)	38	45	mg/L
9.	Arsenic as As	3120-As- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.01	mg/L
10.	Cadmium as Cd	3120-Cd Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.001)	0.01	mg/L
11.	Hexavalent Chromium as Cr ⁺⁶	APHA 3500-Cr (B) (24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L
12.	Copper as Cu	3120-Cu- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L
13.	Lead as Pb	3120-Pb Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L

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14.	Mercury as Hg	3120-Hg Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.0005)	0.01	mg/L
15.	Nickel as Ni	3120-Ni- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	---	mg/L
16.	Iron as Ni	3500-Fe-B- Phenanthroline Method (APHA 24 th Edition 2023)	BDL (DL=0.01)	0.3	mg/L
17.	Zinc as Zn	3120-Zn Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	0.46	5.0	mg/L
18.	Phenolic Compounds as C ₆ H ₅ OH mg/l	IS 3025 (Part-43) Sec 1-2022	BDL (DL=0.0006)	0.001	mg/L


Notes:

1. The results relate only to the items tested.
2. The test report shall not be reproduced except in full without approval of the laboratory.
3. The results apply to the sample as received..
4. If sample not preserved, results may vary.

Sample analyzed by:



 Varsha Saurawat/Mohit Kumar
 Analyst / Analyst


 Narender Hooda, Sc-'B'
 Regional Laboratory Faridabad

HSPCB/LAB/F/2024/

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Dated 1-4-24



REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 2297 M (III)
 Date : 01/04/2024
 Issued To : Regional Officer, Gurgaon North/Member Secretary HSPCB
 Sample Type : Ground Water
 Sample collected on dated : 21/03/2024
 Sample Collected by : Sh. Balraj Ahlawat, Chief Engineer, Sh. Navcen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B'.
 Sample received on dated : 21/03/2024
 Sample Location : Sansad Saheed Petrol Pump Pump Faridabad Road, Gurugram 28.404574° , 77.174845°
 Sample Quantity : Unknown
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024



Sr. No.	Parameter	Protocol used	Result	Prescribed Limits	Unit
1.	Colour	----	Colorless	----	
2.	Odour	----	Odourless	----	
3.	pH	APHA 4500 H ⁺ B (24 th Edition 2023)	6.56	6.5-8.5	----
4.	Dissolved Solids	APHA 2540-C (24 th Edition 2023)	1385	500	mg/L
5.	Total Hardness as CaCO ₃	2340-C-Titrimetric Method (24 th Edition 2023)	384	300	mg/L
6.	Chloride as Cl	IS 3025 (Part-32):1988 (Reaffirmed 2014) Argentometric method	208.9	250	mg/L
7.	Sulphate as SO ₄	4500 SO ₄ ²⁻ - E-Turbidimetric Method (APHA 24 th Edition 2023)	122	200	mg/L
8.	Nitrate as NO ₃	4500- NO ₃ ⁻ B-UV Spectrophotometric Method (APHA 24 th Edition 2023)	115	45	mg/L
9.	Arsenic as As	3120-As- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.01	mg/L
10.	Cadmium as Cd	3120-Cd Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.001)	0.01	mg/L
11.	Hexavalent Chromium as Cr ⁺⁶	APHA 3500-Cr (B) (24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L
12.	Copper as Cu	3120-Cu- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L

13.	Lead as Pb	3120-Pb Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L
14.	Mercury as Hg	3120-Hg Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.0005)	0.01	mg/L
15.	Nickel as Ni	3120-Ni- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	----	mg/L
16.	Iron as Ni	3500-Fe-B- Phenanthroline Method (APHA 24 th Edition 2023)	BDL (DL=0.01)	0.3	mg/L
17.	Zinc as Zn	3120-Zn Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	0.47	5.0	mg/L
18.	Phenolic Compounds as C ₆ H ₅ OH mg/l	IS 3025 (Part-43) Sec 1-2022	BDL (DL=0.0006)	0.001	mg/L

Notes:

1. The results relate only to the items tested.
2. The test report shall not be reproduced except in full without approval of the laboratory.
3. The results apply to the sample as received..
4. If sample not preserved, results may vary.

Sample analyzed by:



Varsha Sehrawat/Mohit Kumar
 Analyst / Analyst


Narendra Hooda, Sc-'B'
Regional Laboratory Faridabad

HSPCB/LAB/F/2024/ 17

Dated 1-4-24.



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REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 2297 M (IV)
 Date : 01/04/2024
 Issued To : Regional Officer, Gurgaon North/Member Secretary HSPCB
 Sample Type : Ground Water
 Sample collected on dated : 21/03/2024
 Sample Collected by : Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B'.
 Sample received on dated : 21/03/2024
 Sample Location : Teen Murti Hanuman Mandir, Gurgaon Faridabad Road Near Toll Plaza Gurugram 28.409472° , 77.169097°
 Sample Quantity : Unknown
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024



Sr. No.	Parameter	Protocol used	Result	Prescribed Limits	Unit
1.	Colour	----	Colorless	----	
2.	Odour	----	Odourless	----	
3.	pH	APHA 4500 H ⁺ B (24 th Edition 2023)	8.06	6.5-8.5	---
4.	Dissolved Solids	APHA 2540-C (24 th Edition 2023)	690	500	mg/L
5.	Total Hardness as CaCO ₃	2340-C-Titrimetric Method (24 th Edition 2023)	248	300	mg/L
6.	Chloride as Cl	IS 3025 (Part-32):1988 (Reaffirmed 2014) Argentometric method	87.97	250	mg/L
7.	Sulphate as SO ₄	4500 SO ₄ ²⁻ - E-Turbidimetric Method (APHA 24 th Edition 2023)	42	200	mg/L
8.	Nitrate as NO ₃	4500- NO ₃ ⁻ B-UV Spectrophotometric Method (APHA 24 th Edition 2023)	56.8	45	mg/L
9.	Arsenic as As	3120-As- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.01	mg/L
10.	Cadmium as Cd	3120-Cd Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.001)	0.01	mg/L
11.	Hexavalent Chromium as Cr ⁺⁶	APHA 3500-Cr (B) (24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L
12.	Copper as Cu	3120-Cu- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L

13.	Lead as Pb	3120-Pb Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L
14.	Mercury as Hg	3120-Hg Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.0005)	0.01	mg/L
15.	Nickel as Ni	3120-Ni- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	----	mg/L
16.	Iron as Ni	3500-Fe-B- Phenanthroline Method (APHA 24 th Edition 2023)	BDL (DL=0.01)	0.3	mg/L
17.	Zinc as Zn	3120-Zn Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.0005)	5.0	mg/L
18.	Phenolic Compounds as C ₆ H ₅ OH mg/l	IS 3025 (Part-43) Sec 1-2022	BDL (DL=0.0006)	0.001	mg/L

Notes:

1. The results relate only to the items tested.
2. The test report shall not be reproduced except in full without approval of the laboratory.
3. The results apply to the sample as received..
4. If sample not preserved, results may vary.

Sample analyzed by:

 
 Varsha Sehrawat/Mohit Kumar
 Analyst / Analyst


 Narender Hooda, Sc-'B'
 Regional Laboratory Faridabad

HSPCB/LAB/F/2024/ 19

Dated 1-4-24

3554904/2024/swm.Br



REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 2297 M (V)
 Date : 28/03/2024
 Issued To : Regional Officer, Gurgaon North/Member Secretary HSPCB
 Sample Type : Ground Water
 Sample collected on dated : 21/03/2024
 Sample Collected by : Sh. Balraj Ahlawat, Chief Engineer, Sh. Navin Gulla, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sharma, Lab Incharge, Faridabad, Sh. Ramiwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, So-'B'.
 Sample received on dated : 21/03/2024
 Sample Location : Sh. Lala Ram House Near School Village Bandhwar Gurgaon 28.410068°
 Sample Quantity : 71.15278°
 Date of Analysis started : Unknown
 Date of analysis completed : 28/03/2024

Sr. No.	Parameter	Protocol used	Result	Prescribed Limits	Unit
1.	Colour	---	Colorless	---	---
2.	Odour	---	Odourless	---	---
3.	pH	APHA 4500 H ⁺ B (24 th Edition 2023)	7.58	6-8.5	---
4.	Dissolved Solids	APHA 2540-C (24 th Edition 2023)	1160	500	mg/L
5.	Total Hardness as CaCO ₃	2340-C Titrimetric Method (24 th Edition 2023)	280	300	mg/L
6.	Chloride as Cl ⁻	IS 3025 (Part-32)-1988 (Reaffirmed 2014) Argentometric method	149.95	250	mg/L
7.	Sulphate as SO ₄	4300 SO ₄ ²⁻ - B-Turbidimetric Method (APHA 24 th Edition 2023)	65	200	mg/L
8.	Nitrate as NO ₃	4500- NO ₃ ⁻ B-UV Spectrophotometric Method (APHA 24 th Edition 2023)	212	45	mg/L
9.	Arsenic as As	3120-As- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.01	mg/L
10.	Cadmium as Cd	3120-Cd Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.001)	0.01	mg/L
11.	Hexavalent Chromium as Cr ^{VI}	APHA 3500-Cr (B) (24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L
12.	Copper as Cu	3120-Cu- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L

File No. HSPCB-060001/47/2020-SOLID WASTE MANAGEMENT CELL
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3554904/2024/swm.Br

Sl. No.	Parameter	Method	DL	Result	Unit
14.	Mercury as Hg	3120-Pb Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L
15.	Nickel as Ni	3120-Hg Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.0005)	0.01	mg/L
16.	Iron as Ni	3120-Ni Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	0.009	---	mg/L
17.	Zinc as Zn	3500-Fe-B Phosphoroline Method (APHA 24 th Edition 2023)	BDL (DL=0.01)	0.3	mg/L
18.	Phenolic Compounds as C ₆ H ₅ OH (mg/l)	3120-Zn Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	0.007	5.0	mg/L
		15 3025 (Part-4) Sec 1-2022	BDL (DL=0.0006)	0.001	mg/L

- Notes:
1. The results relate only to the items tested.
 2. The test report shall not be reproduced except in full without approval of the laboratory.
 3. The results apply to the sample as received.
 4. If sample not preserved, results may vary.

Sample analyzed by:

 Varsha Sekhawat/Mohit Kumar
 Analyst / Analyst


 Narendra Hooda, Sr. B
 Regional Laboratory Faridkot

HSPCB/LAB/2024/ 21

Dated 1-4-24

3554904/2024/swm.Br



REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 2297 M (VI)
 Date : 01/04/2024
 Issued To : Regional Officer, Gurgaon North/Member Secretary HSPCB
 Sample Type : Ground Water
 Sample collected on dated : 21/03/2024
 Sample Collected by : Sh. Brijg Ahlawat, Chief Engineer, Sh. Navam Oalia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramesh Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, So-'B'.
 Sample received on dated : 21/03/2024
 Sample Location : Govt. School, Balawas 28.424508°, 77.144700°
 Sample Quantity : Unknown
 Date of Analysis started : 21/03/2024
 Date of analysis completed : 01/04/2024

Sr. No.	Parameter	Protocol used	Result	Prescribed Limits	Unit
1.	Colour	---	Colorless	---	---
2.	Odour	---	Odourless	---	---
3.	pH	APHA 4500 H ⁺ B (24 th Edition 2023)	7.84	6.5-8.5	---
4.	Dissolved Solids	APHA 2540-C (24 th Edition 2023)	610	500	mg/L
5.	Total Hardness as CaCO ₃	2340-C-Titrimetric Method (24 th Edition 2023)	222	300	mg/L
6.	Chloride as Cl ⁻	IS 3025 (Part-32):1988 (Reaffirmed 2014) Argentometric method	25.99	250	mg/L
7.	Sulphate as SO ₄	4500 SO ₄ ²⁻ - B-Turbidimetric Method (APHA 24 th Edition 2023)	96	200	mg/L
8.	Nitrate as NO ₃	4500-NO ₃ B-LUV Spectrophotometric Method (APHA 24 th Edition 2023)	118	45	mg/L
9.	Arsenic as As	3120-As- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.01	mg/L
10.	Cadmium as Cd	3120-Cd Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.001)	0.01	mg/L
11.	Hexavalent Chromium as Cr ⁶⁺	APHA 3500-Cr (B) (24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L
12.	Copper as Cu	3120-Cu- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L
13.	Lead as Pb	3120-Pb Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	0.05	mg/L

File No. HSPCB-060001/4772020-SOLID WASTE MANAGEMENT CEI

Generated from eOffice by HEMANT CHANDER, Clerk (SWM), CLI

3554904/2024/swm.Br

14.	Mercury as Hg	3120-Hg Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.0005)	0.01	mg/L
15.	Nickel as Ni	3120-Ni Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.005)	---	mg/L
16.	Iron as Fe	3500-Fe-B-Fluorimetric Method (APHA 24 th Edition 2023)	BDL (DL=0.01)	0.3	mg/L
17.	Zinc as Zn	3120-Zn Inductively Coupled Plasma Method (APHA 24 th Edition 2023)	BDL (DL=0.0005)	5.0	mg/L
18.	Phenolic Compounds as C ₆ H ₅ OH mg/l	IS 3025 (Part-4) Sec 1-2022	BDL (DL=0.0006)	0.001	mg/L

- Notes:
1. The results relate only to the items tested.
 2. The test report shall not be reproduced except in full without approval of the laboratory.
 3. The results apply to the sample as received.
 4. If sample not preserved, results may vary.

Sample analyzed by:

Varsha
Varsha Sekhri / **Shikhi Kumar**
 Analyst / Analyst

Narajit
Narajit Ghosh, Sc.'B'
 Regional Laboratory Faridabad

HSPCLAB/2024/ 23

Date: 1-4-24



FORM j
(See Rule 20)

Report No.: -190
Dated - May 29, 2023

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 20th day of May, 2023 from Sh. Kuldeep (RO), Sh. Manish Yadav AEE, a sample of liquid effluent of M/s Pond near Bandhwari, Municipal Solid Waste Site, Bandhwari, collected on 19.05.2023 from the Pond near Bandhwari, Municipal Solid Waste Site, Bandhwari for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 20/05/2023 to 29/05/2023 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	From Pond	Method of Testing
1.	Colour	Blackish	As per relevant parts of IS:3025 (Part-I) 1987 & relevant parts and Standard Methods for the Examination of water and waste water APHA(23 rd edition) 2017
2.	Odour	Foul	
3.	pH Value	7.4	
4.	Conductivity $\mu\text{S}/\text{cm}$	3310	
5.	Total Suspended Solids mg/l	1250	
6.	B.O.D.(3 Days at 27 ^o C) mg/l	820	
7.	Chemical Oxygen Demand mg/l	4738.8	
8.	Oil & Grease mg/l	BDL	
9.	Nickel as Ni mg/l	4.9	
10.	Chloride as Cl	2124.1	
11.	Fluoride as F mg/l	9.3	
12.	Total Kjeldahl Nitrogen mg/l	58.8	
13.	Phenolic Compounds as C ₆ H ₅ OH mg/l	2.8	
14.	Total Chromium as Cr mg/l	3.2	

The condition of the seals, fastening and container on receipt was as follow:
Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.
Signed this on **29th day of May, 2023**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad

Narender Hooda
Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Gurgaon North
Dated: 29/05/2023
Endst. No. HSPCB/LAB/F/2023/1024

This test report relate only to the particular sample submitted for testing



FORM j
(See Rule 20)

Report No.:-191
Dated - May 29, 2023

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 20th day of May, 2023 from Sh. Kuldeep Singh R.O, Gurgaon North, Sh. Manish Yadav AEE, a sample of liquid effluent of M/s Ecogreen Engineering (P) Ltd., Bandhwari, MSW Landfil Site, Bandhwari, Gurgaon, collected on 19.05.2023 from the Inlet & Outlet of DTRO for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 20/05/2023 to 29/05/2023 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	Inlet of DTRO	Outlet of DTRO	Prescribed Limits	Method of Testing
1.	Colour	Blackish	Almost Colorless	----	As per relevant parts of IS:3025 (Part-I) 1987 & relevant parts and Standard Methods for the Examination of water and waste water APHA(23 rd edition) 2017
2.	Odour	Foul	Almost Odourless	----	
3.	pH Value	7.8	6.4	5.5-9.0	
4.	Conductivity μ S/cm	7120	2240	----	
5.	Total Suspended Solids mg/l	520	65	200	
6.	B.O.D.(3 Days at 27 ^o C) mg/l	185	26	30	
7.	Chemical Oxygen Demand mg/l	947.7	136.5	250	
8.	Oil & Grease mg/l	7.4	BDL	----	
9.	Ammonical Nitrogen as N mg/l	24.5	3.8	50	
10.	Chloride as Cl mg/l	1364.4	234.9	600	
11.	Nickel as Ni mg/l	6.1	BDL	3	
12.	Fluoride as F mg/l	5.9	0.7	----	
13.	Phenolic Compounds as C ₆ H ₅ OH mg/l	7.8	0.5	1	
14.	Total Chromium as Cr mg/l	BDL	BDL	2	

The condition of the seals, fastening and container on receipt was as follow:

Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.

Signed this on **29th day of May, 2023**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad


Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Gurgaon North

Endst. No. HSPCB/LAB/F/2023/ 1026

Dated: 29/05/2023

This test report relate only to the particular sample submitted for testing



132

Laboratory Of The
Haryana State Pollution Control Board
Vikas Sadan Ist Floor Gurgaon

Tel-2332596

Paid / Monitoring

Description to:-

1. Pond of Leachate Outside the Landfill Site, Bandhwari, Gurugram 28.400033, 77.170167
2. Pond Outside the Landfill Site, Bandhwari, Gurugram 28.402236, 77.16950
3. Pond Outside the Landfill Site, Bandhwari, Gurugram 28.402530, 77.170015

Report No: 145-146-147

Dated: 24.07.2023

Description of the Sample: - Received on 12.07.2023 a sample of Pond from Sh. Aparnesh Kumar, Sc 'B' collected on 12.07.2023 from Various Point.

ANALYSIS REPORT

RESULTS

Sr. No.	Parameters	(1) Pond of Leachate Outside the Landfill Site	(2) Pond Outside the Landfill Site	(3) Pond Outside the Landfill Site
		Blackish	Greyish	Blackish
1.	Colour	Blackish	Greyish	Blackish
2.	Odour	Bad	Bad	Bad
3.	pH value	6.1	6.7	7.8
4.	Suspended Solids mg/l	368	282	408
5.	B.O.D. for 3 days at 27°C mg/l	910	230	500
6.	C.O.D mg /l	5080	840	3480
7.	Oil & Grease mg/l	5.0	3.0	2.0
8.	Conductivity us/cm	5620	3210	9950
9.	Total Dissolved Solid mg/l	2810	1640	5410
10.	Phosphate as P mg/l	6.3	5.2	5.9
11.	Zinc as Zn mg/l	3.6	2.8	3.2
12.	Nickel as Ni mg/l	ND	0.6	0.9
13.	Iron as Fe mg/l	1.4	0.7	1.1
14.	Total Chromium as Cr mg/l	ND	ND	ND
15.	Chlorides as Cl mg/l	940	480	610
16.	Fluoride as F mg/l	1.4	0.9	1.0
17.	Phenolic Compound as C ₆ H ₅ OH mg/l	ND	ND	ND

Sample Collected/Not Collected by us
Sample Consumed in testing

IP Singh
LAB INCHARGE

Dated *24-7-23*

HSPCB/Lab/GR/2023/ 589-590

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o/c



133

Laboratory Of The
Haryana State Pollution Control Board
Vikas Sadan Ist Floor Gurgaon

Tel-2332596

Paid / Monitoring

Description to:-

1. Pond of Leachate Outside the Landfill Site, Bandhwari, Gurugram 28.400033, 77.170167 Report No: 209-210-211
2. Pond Outside the Landfill Site, Bandhwari, Gurugram 28.402236, 77.16950 Dated: 04.09.2023
3. Pond Outside the Landfill Site, Bandhwari, Gurugram 28.402530, 77.170015

Description of the Sample: - Received on 25.08.2023 a sample of Pond from Sh. Aparnesh Kumar, Sc 'B' collected on 25.08.2023 from Various Point.

ANALYSIS REPORT**RESULTS**

Sr. No.	Parameters	(1) Pond of Leachate Outside the Landfill Site	(2) Pond Outside the Landfill Site	(3) Pond Outside the Landfill Site
1.	Colour	Blackish	Blackish	Blackish
2.	Odour	Bad	Bad	Bad
3.	pH value	8.3	7.5	7.4
4.	Suspended Solids mg/l	462	514	418
5.	B.O.D. for 3 days at 27°C mg/l	848	640	976
6.	C.O.D mg /l	4580	3260	4580
7.	Oil & Grease mg/l	12.0	9.0	17.0
8.	Conductivity us/cm	3140	9970	4020
9.	Total Dissolved Solid mg/l	1590	5390	2140
10.	Phosphate as P mg/l	7.2	6.8	7.9
11.	Zinc as Zn mg/l	4.1	7.3	3.8
12.	Nickel as Ni mg/l	0.9	2.4	1.7
13.	Iron as Fe mg/l	1.1	2.2	2.8
14.	Total Chromium as Cr mg/l	ND	ND	ND
15.	Chlorides as Cl mg/l	690	850	980
16.	Fluoride as F mg/l	ND	ND	ND
17.	Phenolic Compound as C ₆ H ₅ OH mg/l	ND	ND	ND

Sample Collected/Not Collected by us
Sample Consumed in testing

[Signature]
LAB INCHARGE

Dated 04.09.2023

HSPCB/Lab/GR/2023/ 831- 832

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o/c



134

Laboratory Of The
Haryana State Pollution Control Board
Vikas Sadan Ist Floor Gurgaon

Tel-2332596

Paid / Monitoring

Description to:-

1. 28.401175, 77.157806 Leachate Pond Outside Bandhwari Site, Gurugram

Report No: 237

Dated: 13.09.2023

Description of the Sample: - Received on 05.09.2023 a sample of Leachate Pond from Sh. Aparnesh Kumar, Sc 'B' collected on 05.09.2023 from Leachate Pond Outside Bandhwari Site, Gurugram.

ANALYSIS REPORT
RESULTS

Sr. No.	Parameters	Leachate Pond Outside Bandhwari Site
1.	Colour	Blackish
2.	Odour	Bad
3.	pH value	7.6
4.	Suspended Solids mg/l	522
5.	B.O.D. for 3 days at 27°C mg/l	900
6.	C.O.D mg /l	6480
7.	Oil & Grease mg/l	15.0
8.	Conductivity us/cm	9970
9.	Total Dissolved Solid mg/l	5125
10.	Phosphate as P mg/l	13.2
11.	Zinc as Zn mg/l	5.8
12.	Nickel as Ni mg/l	2.0
13.	Iron as Fe mg/l	1.6
14.	Total Chromium as Cr mg/l	BDL
15.	Chlorides as Cl mg/l	740
16.	Fluoride as F mg/l	BDL
17.	Phenolic Compound as C ₆ H ₅ OH mg/l	BDL

Sample Collected/Not Collected by us
Sample Consumed in testing

Y. Singh
LAB INCHARGE

HSPCB/Lab/GR/2023/ 914 - 915

Dated 13-9-23

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o/c



FORM j
(See Rule 20)

Report No.: -1309

Dated - November 03, 2023

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 27th day of October, 2023 from Sh. Aparnesh Kumar, Sc-'B', a sample of liquid effluent of M/s Ecogreen (India) (P) Ltd., Bandhwari Site, Faridabad-Gurgaon Road, Gurgaon, collected on 26.10.2023 from the Inlet & Outlet of DTRO for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 27/10/2023 to 03/11/2023 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	Inlet of DTRO	Outlet of DTRO	Method of Testing
1.	Colour	Blackish	Almost Colorless	As per relevant parts of IS:3025 (Part-I) 1987 & relevant parts and Standard Methods for the Examination of water and waste water APHA(24 th edition) 2023
2.	Odour	Bad	Odourless	
3.	pH Value	7.5	7.1	
4.	Conductivity μ S/cm	6310	1950	
5.	Total Suspended Solids mg/l	276	48	
6.	B.O.D.(3 Days at 27 ^o C) mg/l	125	23	
7.	Chemical Oxygen Demand mg/l	640	116	
8.	Oil & Grease mg/l	8.2	BDL	

The condition of the seals, fastening and container on receipt was as follow:

Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.

Signed this on **03rd day of November, 2023**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad


Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Gurgaon North

Endst. No. HSPCB/LAB/F/2023/ 7485-7486

Dated: 03/11/2023

This test report relate only to the particular sample submitted for testing

o/c



136
 Laboratory Of The
 Haryana State Pollution Control Board
 Vikas Sadan Ist Floor Gurgaon

Tel-2332596

Paid / Monitoring

Description to:-

1. 28.401178, 77.157808 Leachate Pond Outside Bandhwari Site,
 Gurugram

Report No: 315

Dated: 03.11.2023

Description of the Sample: - Received on 26.10.2023 a sample of Leachate Pond from Sh. Aparnesh Kumar, Sc 'B' collected on 26.10.2023 from Leachate Pond outside Bandhwari Site, Gurugram.

ANALYSIS REPORT

RESULTS

Sr. No.	Parameters	Leachate Pond Outside Bandhwari Site
1.	Colour	Bluish
2.	Odour	Bad
3.	pH value	5.7
4.	Suspended Solids mg/l	596
5.	B.O.D. for 3 days at 27°C mg/l	1100
6.	C.O.D mg /l	7200
7.	Oil & Grease mg/l	22.0
8.	Conductivity us/cm	16930
9.	Total Dissolved Solid mg/l	9312
10.	Phosphate as P mg/l	15.6
11.	Zinc as Zn mg/l	6.7
12.	Nickel as Ni mg/l	2.9
13.	Iron as Fe mg/l	3.8
14.	Total Chromium as Cr mg/l	BDL
15.	Chlorides as Cl mg/l	890
16.	Fluoride as F mg/l	BDL
17.	Phenolic Compound as C ₆ H ₅ OH mg/l	BDL

Sample Collected/Not Collected by us
 Sample Consumed in testing

J. Singh
 LAB INCHARGE

Dated 03.11.2023

HSPCB/Lab/GR/2023/1604-1605

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etc



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Laboratory Of The
Haryana State Pollution Control Board
Vikas Sadan 1st Floor Gurgaon

Tel-2332596

Paid / Monitoring

Description to:-

1. Leachate from the Outside of Bandhwari landfill Site, Gurugram 28.404149, 77.170688
2. Leachate from the Outside of Bandhwari landfill Site, Gurugram 28.404149, 77.170688

Report No: 521-522

Dated: 23.01.2024

Description of the Sample: - Received on 11.01.2024 a sample of Leachate Pond from Sh. Aparnesh Kumar, Sc 'B' collected on 11.01.2024 from Leachate Pond outside Bandhwari Site, Gurugram.

ANALYSIS REPORT**RESULTS**

Sr. No.	Parameters	Leachate from the Outside of Bandhwari landfill Site, Gurugram 28.404149, 77.170688	Leachate from the Outside of Bandhwari landfill Site, Gurugram 28.404149, 77.170688
1.	Colour	Blackish	Blackish
2.	Odour	Bad	Bad
3.	pH value	5.4	5.9
4.	Suspended Solids mg/l	482	614
5.	B.O.D. for 3 days at 27°C mg/l	900	1100
6.	C.O.D mg /l	6800	8800
7.	Oil & Grease mg/l	26.0	28.0
8.	Conductivity us/cm	14230	15590
9.	Total Dissolved Solid mg/l	7642	8060
10.	Phosphate as P mg/l	17.2	15.1
11.	Zinc as Zn mg/l	8.1	7.4
12.	Nickel as Ni mg/l	2.3	3.0
13.	Iron as Fe mg/l	4.6	3.8
14.	Total Chromium as Cr mg/l	BDL	BDL
15.	Chlorides as Cl mg/l	910	1040
16.	Fluoride as F mg/l	BDL	BDL
17.	Phenolic Compound as C ₆ H ₅ OH mg/l	BDL	BDL

Sample Collected/Not Collected by us
Sample Consumed in testing

HSPCB/Lab/GR/2024/2107 - 2108

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LAB INCHARGE

Dated 23/01/2024

o/c



**PREVENT
POLLUTION**



FORM J
(See Rule 36)

Report No.:-2296 (I)
Dated - March 29 2024

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 21st day of March, 2024 from Sh. Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B', a sample of liquid effluent of M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond outside along peripheri wall) N 28°24', 1.03061" , E 77°10'3.57601", collected on 21.03.2024 from the Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond outside along peripheri wall) N 28°24', 1.03061" , E 77°10'3.57601", for analysis. The Sample was in a condition fit for analysis reported below:-
I further certify that I have analyzed the afore-mentioned sample on 21/03/2024 to 29/03/2024 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond outside along peripheri wall) N 28°24', 1.03061" , E 77°10'3.57601"	Prescribed Limits	Test Method
1.	pH Value at 25°C	8.12	5.5-9.0	APHA 4500 H ⁺ B (24 th Edition 2023)
2.	Conductivity μ S/cm at 25°C	43100	----	APHA 2510 B (24 th Edition 2023)
3.	Total Suspended Solids mg/l	280	100	APHA 2540 - D (24 th Edition 2023)
4.	B.O.D.(5 Days at 20 ^o C) mg/l	1750	30	APHA 5210-C (24 th Edition 2023)
5.	Chemical Oxygen Demand mg/l	5975.2	250	APHA 5220-B (24 th Edition 2023)
6.	Total Dissolved Solids mg/l	23710	2100	APHA 2540-C (24 th Edition 2023)

The condition of the seals, fastening and container on receipt was as follow:
Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.
Signed this on **29th day of March, 2024**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad

Narender Hooda
Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Gurgaon North / M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond outside along peripheri wall) N 28°24', 1.03061" , E 77°10'3.57601"

Endst. No. HSPCB/LAB/F/2024/ 11311

Dated: 29/03/2024

This test report relate only to the particular sample submitted for testing



**PREVENT
POLLUTION**

FORM J
(See Rule 36)

Report No.:-2296 (I)
Dated - March 29 2024

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 21st day of March, 2024 from Sh. Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B', a sample of liquid effluent of M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond outside along peripheri wall) N 28°24', 1.03061" , E 77°10'3.57601", collected on 21.03.2024 from the Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond outside along peripheri wall) N 28°24', 1.03061" , E 77°10'3.57601", for analysis. The Sample was in a condition fit for analysis reported below:-
I further certify that I have analyzed the afore-mentioned sample on 21/03/2024 to 29/03/2024 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond outside along peripheri wall) N 28°24', 1.03061" , E 77°10'3.57601"	Prescribed Limits	Test Method
7.	Colour	Blackish	----	----
8.	Odour	Bad	----	----
9.	Nickel as Ni mg/l	0.71	3.0	3120-Ni- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
10.	Chloride as Cl mg/l	6443.5	1000	IS 3025 (Part-32) :1988 (Reaffirmed 2014) Argentometric method
11.	Fluoride mg/l	24.8	1.5	4500-F'D-SPADNS Method (APHA 24 th Edition 2023)
12.	Copper as Cu mg/l	1.24	3.0	3120-Cu- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
13.	Arsenic mg/l	0.071	0.2	3120-As- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
14.	Mercury mg/l	ND	0.01	3120-Hg Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
15.	Lead mg/l	0.08	0.1	3120-Pb Inductively Coupled Plasma Method (APHA 24 th Edition 2023)

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16.	Cadmium mg/l	BDL* (MDL**=0.01)	2.0	3120-Cd Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
17.	Zinc as Zn mg/l	1.18	5.0	3120-Zn Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
18.	Ammonical Nitrogen as N mg/l	680.4	50	4500-NH ₃ C-Titrimetric method
19.	Phenolic Compounds as C ₆ H ₅ OH mg/l	0.85	1.0	IS 3025 (Part-43) Sec 1-2022
20.	Total Kjeldahl Nitrogen (TKN) mg/l	1246.8	100	4500-N Org. - B (APHA 24 th Edition 2023)
21.	Total Chromium as Cr ⁺⁶ mg/l	0.97	2.0	3120-Cr-Inductively Coupled Plasma Method (APHA 24 th Edition 2023)

BDL* = Below Detection Limit

MDL** = Detection Limit

The condition of the seals, fastening and container on receipt was as follow:

Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.

Signed this on **29th day of March, 2024**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad


Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Gurgaon North / M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond outside along peripheri wall) N 28°24', 1.03061" , E 77°10'3.57601"

Endst. No. HSPCB/LAB/F/2024/ 11311

Dated: 29/03/2024

This test report relate only to the particular sample submitted for testing



**PREVENT
POLLUTION**



FORM J
(See Rule 36)

Report No.: -2296 (II)
Dated - March 29 2024

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 21st day of March, 2024 from Sh. Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B', a sample of liquid effluent of M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24,'4.0122" , E 77°10'21.20448", collected on 21.03.2024 from the Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24,'4.0122" , E 77°10'21.20448", for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 21/03/2024 to 29/03/2024 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24,'4.0122" , E 77°10'21.20448"	Prescribed Limits	Test Method
1.	pH Value at 25°C	7.13	5.5-9.0	APHA 4500 H ⁺ B (24 th Edition 2023)
2.	Conductivity µS/cm at 25°C	67900	----	APHA 2510 B (24 th Edition 2023)
3.	Total Suspended Solids mg/l	380	100	APHA 2540 - D (24 th Edition 2023)
4.	B.O.D.(5 Days at 20 ^o C) mg/l	2250	30	APHA 5210-C (24 th Edition 2023)
5.	Chemical Oxygen Demand mg/l	10786.4	250	APHA 5220-B (24 th Edition 2023)
6.	Total Dissolved Solids mg/l	35410	2100	APHA 2540-C (24 th Edition 2023)

The condition of the seals, fastening and container on receipt was as follow:
Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.
Signed this on **29th day of March, 2024**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad

Narender Hooda
Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Gurgaon North / M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24,'4.0122" , E 77°10'21.20448"

Endst. No. HSPCB/LAB/F/2024/ 11314

Dated: 29/03/2024

This test report relate only to the particular sample submitted for testing



**PREVENT
POLLUTION**

FORM J
(See Rule 36)

Report No.:-2296 (II)
Dated - March 29 2024

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 21st day of March, 2024 from Sh. Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B', a sample of liquid effluent of M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24,'4.0122" , E 77°10'21.20448", collected on 21.03.2024 from the Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24,'4.0122" , E 77°10'21.20448", for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 21/03/2024 to 29/03/2024 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24,'4.0122" , E 77°10'21.20448"	Prescribed Limits	Test Method
7.	Colour	Blackish	----	----
8.	Odour	Bad	----	----
9.	Nickel as Ni	1.10	3.0	3120-Ni- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
10.	Chloride as Cl	9270.7	1000	IS 3025 (Part-32) :1988 (Reaffirmed 2014) Argentometric method
11.	Fluoride	23.54	1.5	4500-F'D-SPADNS Method (APHA 24 th Edition 2023)
12.	Copper as Cu	1.78	3.0	3120-Cu- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
13.	Arsenic	0.084	0.2	3120-As- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
14.	Mercury	ND	0.01	3120-Hg Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
15.	Lead	0.09	0.1	3120-Pb Inductively Coupled Plasma Method (APHA 24 th Edition 2023)

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16.	Cadmium	BDL* (MDL**=0.01)	2.0	3120-Cd Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
17.	Zinc as Zn	1.38	5.0	3120-Zn Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
18.	Ammonical Nitrogen as N	1394.4	50	4500-NH ₃ C-Titrimetric method
19.	Phenolic Compounds as C ₆ H ₅ OH mg/l	0.99	1.0	IS 3025 (Part-43) Sec 1-2022
20.	Total Kjeldahl Nitrogen (TKN)	2409.72	100	4500-N Org. - B (APHA 24 th Edition 2023)
21.	Total Chromium as Cr ⁺⁶	0.87	2.0	3120-Cr-Inductively Coupled Plasma Method (APHA 24 th Edition 2023)

BDL* = Below Detection Limit

MDL** = Detection Limit

The condition of the seals, fastening and container on receipt was as follow:

Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.

Signed this on **29th day of March, 2024**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad


Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Gurgaon North / M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24,'4.0122" , E 77°10'21.20448"

Endst. No. HSPCB/LAB/F/2024/ 11314

Dated: 29/03/2024

This test report relate only to the particular sample submitted for testing



**PREVENT
POLLUTION**



TC-11156

FORM J
(See Rule 36)

Report No.:-2296 (III)
Dated - March 29 2024

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 21st day of March, 2024 from Sh. Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B', a sample of liquid effluent of M/S Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24'7.65396' , E 77°10'23.65176', collected on 21.03.2024 from the Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24'7.65396' , E 77°10'23.65176', for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 21/03/2024 to 29/03/2024 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24'7.65396' , E 77°10'23.65176'	Prescribed Limits	Test Method
1.	pH Value at 25°C	6.99	5.5-9.0	APHA 4500 H ⁺ B (24 th Edition 2023)
2.	Conductivity µS/cm at 25°C	56600	----	APHA 2510 B (24 th Edition 2023)
3.	Total Suspended Solids mg/l	420	100	APHA 2540 - D (24 th Edition 2023)
4.	B.O.D.(5 Days at 20° C) mg/l	1550	30	APHA 5210-C (24 th Edition 2023)
5.	Chemical Oxygen Demand mg/l	7837.6	250	APHA 5220-B (24 th Edition 2023)
6.	Total Dissolved Solids mg/l	29130	2100	APHA 2540-C (24 th Edition 2023)

The condition of the seals, fastening and container on receipt was as follow:
Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.
Signed this on **29th day of March, 2024**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad

Narender Hooda
Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Gurgaon North / M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24'7.65396' , E 77°10'23.65176'

Endst. No. HSPCB/LAB/F/2024/ 11317

Dated: 29/03/2024

This test report relate only to the particular sample submitted for testing



**PREVENT
POLLUTION**

FORM J

(See Rule 36)

Report No.:-2296 (III)

Dated - March 29 2024

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 21st day of March, 2024 from Sh. Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B', a sample of liquid effluent of M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24'7.65396' , E 77°10'23.65176', collected on 21.03.2024 from the Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24'7.65396' , E 77°10'23.65176', for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 21/03/2024 to 29/03/2024 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24'7.65396' , E 77°10'23.65176'	Prescribed Limits	Test Method
7.	Colour	Blackish	----	----
8.	Odour	Bad	----	----
9.	Nickel as Ni	0.89	3.0	3120-Ni-Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
10.	Chloride as Cl	8951.04	1000	IS 3025 (Part-32) :1988 (Reaffirmed 2014) Argentometric method
11.	Fluoride	28.72	1.5	4500-F'D-SPADNS Method (APHA 24 th Edition 2023)
12.	Copper as Cu	0.82	3.0	3120-Cu-Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
13.	Arsenic	0.074	0.2	3120-As-Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
14.	Mercury	ND	0.01	3120-Hg Inductively Coupled Plasma Method (APHA 24 th Edition 2023)

15.	Lead	0.08	0.1	3120-Pb Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
16.	Cadmium	BDL* (MDL**=0.01)	2.0	3120-Cd Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
17.	Zinc as Zn	1.08	5.0	3120-Zn Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
18.	Ammonical Nitrogen as N	1178.8	50	4500-NH ₃ C- Titrimetric method
19.	Phenolic Compounds as C ₆ H ₅ OH mg/l	0.91	1.0	IS 3025 (Part-43) Sec 1-2022
20.	Total Kjeldahl Nitrogen (TKN)	2045.4	100	4500-N Org. - B (APHA 24 th Edition 2023)
21.	Total Chromium as Cr ⁺⁶	0.76	2.0	3120-Cr- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)

BDL* = Below Detection Limit

MDL** = Detection Limit

The condition of the seals, fastening and container on receipt was as follow:

Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.

Signed this on **29th day of March, 2024**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad

[Signature]
Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Gurgaon North / M/s
Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N
28°24'7.65396', E 77°10'23.65176'

Endst. No. HSPCB/LAB/F/2024/ 11317

Dated: 29/03/2024

This test report relate only to the particular sample submitted for testing



**PREVENT
POLLUTION**



FORM J
(See Rule 36)

Report No.:-2296 (IV)
Dated - March 29 2024

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 21st day of March, 2024 from Sh. Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B', a sample of liquid effluent of M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24'3.47868" , E 77°10'11.18352", collected on 21.03.2024 from the Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24'3.47868" , E 77°10'11.18352", for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 21/03/2024 to 29/03/2024 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24'3.47868" , E 77°10'11.18352"	Prescribed Limits	Test Method
1.	pH Value at 25°C	8.88	5.5-9.0	APHA 4500 H ⁺ B (24 th Edition 2023)
2.	Conductivity μ S/cm at 25°C	46900	----	APHA 2510 B (24 th Edition 2023)
3.	Total Suspended Solids mg/l	220	100	APHA 2540 - D (24 th Edition 2023)
4.	B.O.D.(5 Days at 20 ^o C) mg/l	1250	30	APHA 5210-C (24 th Edition 2023)
5.	Chemical Oxygen Demand mg/l	5509.6	250	APHA 5220-B (24 th Edition 2023)
6.	Total Dissolved Solids mg/l	24610	2100	APHA 2540-C (24 th Edition 2023)

The condition of the seals, fastening and container on receipt was as follow:
Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.
Signed this on **29th day of March, 2024**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad

Narender Hooda
Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Gurgaon North / M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24'3.47868" , E 77°10'11.18352"

Endst. No. HSPCB/LAB/F/2024/ 11320

Dated: 29/03/2024

This test report relate only to the particular sample submitted for testing



**PREVENT
POLLUTION**

FORM J
(See Rule 36)

Report No.:-2296 (IV)

Dated - March 29 2024

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 21st day of March, 2024 from Sh. Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulla, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B', a sample of liquid effluent of M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24'3.47868" , E 77°10'11.18352", collected on 21.03.2024 from the Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24'3.47868" , E 77°10'11.18352", for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 21/03/2024 to 29/03/2024 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24'3.47868" , E 77°10'11.18352"	Prescribed Limits	Test Method
7.	Colour	Blackish	----	----
8.	Odour	Bad	----	----
9.	Nickel as Ni	0.63	3.0	3120-Ni- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
10.	Chloride as Cl	6123.3	1000	IS 3025 (Part-32) :1988 (Reaffirmed 2014) Argentometric method
11.	Fluoride	27.84	1.5	4500-FD-SPADNS Method (APHA 24 th Edition 2023)
12.	Copper as Cu	0.57	3.0	3120-Cu- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
13.	Arsenic	0.175	0.2	3120-As- Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
14.	Mercury	ND	0.01	3120-Hg Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
15.	Lead	0.032	0.1	3120-Pb Inductively Coupled Plasma Method (APHA 24 th Edition 2023)

16.	Cadmium	BDL* (MDL**=0.01)	2.0	3120-Cd Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
17.	Zinc as Zn	0.61	5.0	3120-Zn Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
18.	Ammonical Nitrogen as N	688.8	50	4500-NH ₃ C-Titrimetric method
19.	Phenolic Compounds as C ₆ H ₅ OH mg/l	0.97	1.0	IS 3025 (Part-43) Sec 1-2022
20.	Total Kjeldahl Nitrogen (TKN)	1569.1	100	4500-N Org. - B (APHA 24 th Edition 2023)
21.	Total Chromium as Cr ⁺⁶	1.54	2.0	3120-Cr-Inductively Coupled Plasma Method (APHA 24 th Edition 2023)

BDL* = Below Detection Limit

MDL** = Detection Limit

The condition of the seals, fastening and container on receipt was as follow:

Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.

Signed this on **29th day of March, 2024**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad

[Signature]
Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Gurgaon North / M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond inside the site) N 28°24'3.47868" , E 77°10'11.18352"

Endst. No. HSPCB/LAB/F/2024/ 11320

Dated: 29/03/2024

This test report relate only to the particular sample submitted for testing



**PREVENT
POLLUTION**



TC-11156

FORM J
(See Rule 36)

Report No.:-2296 (V)
Dated - March 29 2024

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 21st day of March, 2024 from Sh. Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B', a sample of liquid effluent of M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond Near Gurugram Faridabad Road) N 28°24',14.99148" , E 77°10'15.6414", collected on 21.03.2024 from the Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond Near Gurugram Faridabad Road) N 28°24',14.99148" , E 77°10'15.6414", for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 21/03/2024 to 29/03/2024 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond Near Gurugram Faridabad Road) N 28°24',14.99148",E 77°10'15.6414"	Prescribed Limits	Test Method
1.	pH Value at 25°C	9.11	5.5-9.0	APHA 4500 H ⁺ B (24 th Edition 2023)
2.	Conductivity µS/cm at 25°C	64600	----	APHA 2510 B (24 th Edition 2023)
3.	Total Suspended Solids mg/l	165	100	APHA 2540 - D (24 th Edition 2023)
4.	B.O.D.(5 Days at 20 ^o C) mg/l	3100	30	APHA 5210-C (24 th Edition 2023)
5.	Chemical Oxygen Demand mg/l	9544.8	250	APHA 5220-B (24 th Edition 2023)
6.	Total Dissolved Solids mg/l	34270	2100	APHA 2540-C (24 th Edition 2023)

The condition of the seals, fastening and container on receipt was as follow:
Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.
Signed this on **29th day of March, 2024**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad

Narender Hooda
Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Gurgaon North / M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond Near Gurugram Faridabad Road) N 28°24',14.99148",E 77°10'15.6414"

Endst. No. HSPCB/LAB/F/2024/ 11323

Dated: 29/03/2024

This test report relate only to the particular sample submitted for testing



**PREVENT
POLLUTION**

FORM J
(See Rule 36)

Report No.:-2296 (V)
Dated - March 29 2024

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 21st day of March, 2024 from Sh. Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B', a sample of liquid effluent of M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond Near Gurugram Faridabad Road) N 28°24',14.99148" , E 77°10'15.6414", collected on 21.03.2024 from the Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond Near Gurugram Faridabad Road) N 28°24',14.99148" , E 77°10'15.6414", for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 21/03/2024 to 29/03/2024 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond Near Gurugram Faridabad Road) N 28°24',14.99148",E 77°10'15.6414"	Prescribed Limits	Test Method
7.	Colour	Blackish	----	----
8.	Odour	Bad	----	----
9.	Nickel as Ni	0.77	3.0	3120-Ni-Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
10.	Chloride as Cl	7012.9	1000	IS 3025 (Part-32) :1988 (Reaffirmed 2014) Argentometric method
11.	Fluoride	24.98	1.5	4500-FD-SPADNS Method (APHA 24 th Edition 2023)
12.	Copper as Cu	0.77	3.0	3120-Cu-Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
13.	Arsenic	0.175	0.2	3120-As-Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
14.	Mercury	ND	0.01	3120-Hg Inductively Coupled Plasma Method (APHA 24 th Edition 2023)

	Lead	0.03	0.1	3120-Pb Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
16.	Cadmium	BDL* (MDL**=0.01)	2.0	3120-Cd Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
17.	Zinc as Zn	0.70	5.0	3120-Zn Inductively Coupled Plasma Method (APHA 24 th Edition 2023)
18.	Ammonical Nitrogen as N	1136.8	50	4500-NH ₃ C-Titrimetric method
19.	Phenolic Compounds as C ₆ H ₅ OH mg/l	0.72	1.0	IS 3025 (Part-43) Sec 1-2022
20.	Total Kjeldahl Nitrogen (TKN)	1793.2	100	4500-N Org. - B (APHA 24 th Edition 2023)
21.	Total Chromium as Cr ⁺⁶	2.73	2.0	3120-Cr-Inductively Coupled Plasma Method (APHA 24 th Edition 2023)

BDL* = Below Detection Limit

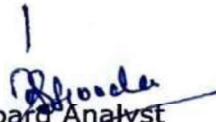
MDL** = Detection Limit

The condition of the seals, fastening and container on receipt was as follow:

Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.

Signed this on **29th day of March, 2024**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad


Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Gurgaon North / M/s Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Pond Near Gurugram Faridabad Road) N 28°24', 14.99148", E 77°10'15.6414"

Endst. No. HSPCB/LAB/F/2024/ 11323

Dated: 29/03/2024

This test report relate only to the particular sample submitted for testing



REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 2295 (I) M
 Date : 01/04/2024
 Issued To : Regional Officer, Gurgaon North/Member Secretary HSPCB
 Sample Type : Sludge
 Sample collected on dated : 21/03/2024
 Sample Collected by : Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B'.
 Sample received on dated : 21/03/2024
 Sample Location : Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Soil from outside pond along the peripheral wall), Lat. 28.400317, Long. 77.170370
 Sample Quantity : Unknown
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024


Sr. No.	Parameter	Result
1.	Color	Brownish
2.	Odour	Bad
3.	pH	7.26
4.	Conductivity	4920
5.	Arsenic as As (mg/Kg)	0.334
6.	Cadmium as Cd (mg/Kg)	0.03
7.	Chromium as Cr (mg/Kg)	3.72
8.	Copper as Cu (mg/Kg)	4.60
9.	Lead as Pb (mg/Kg)	1.25
10.	Mercury as Hg (mg/Kg)	ND
11.	Nickel as Ni (mg/Kg)	3.44
12.	Zinc as Zn (mg/Kg)	11.18
13.	Moisture percent by weight (maximum)	24.508
14.	Bulk density (g/cm ³)	1.0068

Notes:

1. The results relate only to the items tested.
2. The test report shall not be reproduced except in full without approval of the laboratory.
3. The results apply to the sample as received..
4. If sample not preserved, results may vary.

Sample analyzed by:


 Varsha Sehrawat/Mohit Kumar
 Analyst / Analyst


 Narender Hooda, Sc-'B'
 Regional Laboratory Faridabad

Dated: 1-4-24

HSPCB/LAB/F/2024/ 05



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REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT


Test Report No. : 2295 (II) M
 Date : 01/04/2024
 Issued To : Regional Officer, Gurgaon North/Member Secretary HSPCB
 Sample Type : Sludge
 Sample collected on dated : 21/03/2024
 Sample Collected by : Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B'.
 Sample received on dated : 21/03/2024
 Sample Location : Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Soil from outside pond along the peripheral wall Near ETP), N 28°24'2.84148" , E 77°10'19.32744"
 Sample Quantity : Unknown
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024

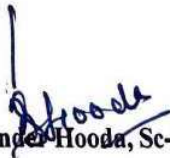
Sr. No.	Parameter	Result
1.	Color	Greyish
2.	Odour	Bad
3.	pH	7.20
4.	Conductivity	2540
5.	Arsenic as As (mg/Kg)	0.534
6.	Cadmium as Cd (mg/Kg)	0.217
7.	Chromium as Cr (mg/Kg)	7.63
8.	Copper as Cu (mg/Kg)	15.79
9.	Lead as Pb (mg/Kg)	3.84
10.	Mercury as Hg (mg/Kg)	ND
11.	Nickel as Ni (mg/Kg)	3.55
12.	Zinc as Zn (mg/Kg)	30.74
13.	Moisture percent by weight (maximum)	32.183
14.	Bulk density (g/cm ³)	0.9598

Notes:

1. The results relate only to the items tested.
2. The test report shall not be reproduced except in full without approval of the laboratory.
3. The results apply to the sample as received..
4. If sample not preserved, results may vary.

Sample analyzed by:


Varsha Sehrawat/Mohit Kumar
 Analyst / Analyst


Narender Hooda, Sc-'B'
Regional Laboratory Faridabad

HSPCB/LAB/F/2024/ 07

Dated: 1-4-24



REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 2295 (III) M
 Date : 01/04/2024
 Issued To : Regional Officer, Gurgaon North/Member Secretary HSPCB
 Sample Type : Sludge
 Sample collected on dated : 21/03/2024
 Sample Collected by : Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh, R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B'.
 Sample received on dated : 21/03/2024
 Sample Location : Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Composite Sample)
 Sample Quantity : Unknown
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024


Sr. No.	Parameter	Result
1.	Color	Blackish
2.	Odour	Mild
3.	pH	8.36
4.	Conductivity	1025
5.	Arsenic as As (mg/Kg)	0.05
6.	Cadmium as Cd (mg/Kg)	0.08
7.	Chromium as Cr (mg/Kg)	10.45
8.	Copper as Cu (mg/Kg)	15.76
9.	Lead as Pb (mg/Kg)	2.97
10.	Mercury as Hg (mg/Kg)	ND
11.	Nickel as Ni (mg/Kg)	3.22
12.	Zinc as Zn (mg/Kg)	103.707
13.	Moisture percent by weight (maximum)	21.137
14.	Bulk density (g/cm ³)	0.8665

Notes:

1. The results relate only to the items tested.
2. The test report shall not be reproduced except in full without approval of the laboratory.
3. The results apply to the sample as received..
4. If sample not preserved, results may vary.

Sample analyzed by:


 Varsha Sehrawat/Mohit Kumar
 Analyst / Analyst


 Narender Hooda, Sc-'B'
 Regional Laboratory Faridabad

HSPCB/LAB/F/2024/ 09

Dated: 1-4-24



REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT


Test Report No. :
 Date : 2295 (IV) M
 Issued To : 01/04/2024
 Sample Type : Regional Officer, Gurgaon North/Member Secretary HSPCB
 Sample collected on dated : Sludge
 Sample Collected by : 21/03/2024
 : Sh. Balraj Ahlawat, Chief Engineer, Sh. Naveen Gulia, SEE, Sh. Sandeep Singh,
 R.O, Faridabad, Sh. Sunil Sheoran, Lab Incharge, Faridabad, Sh. Ramniwas
 Sharma, Lab Incharge, Gurgaon, Sh. Vikas Grewal, Sc-'B'.
 Sample received on dated : 21/03/2024
 Sample Location : Municipal Solid Waste Disposal Site at Bandhwari, Gurugram (Inert Sample)
 Sample Quantity :
 Date of Analysis started : Unknown
 Dated of analysis completed : 21/03/2024
 : 01/04/2024

Sr. No.	Parameter	Result
1.	Color	Blackish
2.	Odour	Mild
3.	pH	8.62
4.	Conductivity	1670
5.	Arsenic as As (mg/Kg)	0.033
6.	Cadmium as Cd (mg/Kg)	0.08
7.	Chromium as Cr (mg/Kg)	9.21
8.	Copper as Cu (mg/Kg)	9.27
9.	Lead as Pb (mg/Kg)	2.48
10.	Mercury as Hg (mg/Kg)	ND
11.	Nickel as Ni (mg/Kg)	4.19
12.	Zinc as Zn (mg/Kg)	21.59
13.	Moisture percent by weight (maximum)	12.1005
14.	Bulk density (g/cm ³)	0.8303

Notes:

1. The results relate only to the items tested.
2. The test report shall not be reproduced except in full without approval of the laboratory.
3. The results apply to the sample as received..
4. If sample not preserved, results may vary.

Sample analyzed by:


 Varsha Sehrawat/Mohit Kumar
 Analyst / Analyst


 Narender Hooda, Sc-'B'
 Regional Laboratory Faridabad

HSPCB/LAB/F/2024/ 11

Dated: 1-4-24



Report No.M-458

Type of Sample:-Monitoring
Haryana State Pollution Control Board's Laboratory
C-11, Sector-06, Panchkula, Haryana

Dated: 08.07.2024

Regional Officer
A.E.E. Sc 'B'-I,II,III
J.E.E. Clerk.

Issued to M/s Tubewell at MSW site, Meeruth Road, Karnal.

Description: Received on 28.06.2024 sample of Tubewell collected by Sh. Hardik, AEE from Surface Water of the tubewell on 27.06.2024. The sample has been analyzed from 28.06.2024 to 08.07.2024.

Handwritten signature and date: 30/07/24

<u>Sr. No.</u>	<u>Parameter Name</u>	<u>Result</u>	<u>Test Method</u>
1.	Color	Colourless	-
2.	Odour	Odourless	-
3.	Ammonical nitrogen as N (mg/l)	BDL(DL=0.5)	APHA 4500-NH ₃ (F)
4.	Nitrate nitrogen (mg/l)	BDL(DL=0.5)	APHA 4500-NO ₃ ⁻ (B)
5.	Turbidity (NTU)	BDL(DL=01)	IS 3025 (Part-10)
6.	Sulphate(mg/l)	64.21	APHA 4500-SO ₄ ²⁻ (E)
7.	Fluoride(mg/l)	0.09	APHA 4500-F- (D)
8.	Total Phosphate (mg/l)	BDL(DL=0.4)	APHA 4500 -P (D)
9.	Sodium (mg/l)	3.2	APHA 3500-Na (B)
10.	Potassium (mg/l)	0.7	APHA 3500-K (B)

Sample Not Collected by us
Sample Consumed in testing
CC to Member Secretary, HSPCB
CC to Regional Office: Karnal. The test report relate only to the particular sample submitted for testing.

Handwritten signature
JSA
Megha

Handwritten signature
JSA
Manjali

Handwritten signature
St.B
Jyotika

Handwritten signature
Laboratory In-charge
Dr. Pinki Jangra

End of the Report



F.R

Regional Officer

F.E. Sc 'B'-I, II, III

J.E.E. Clerk

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Form J

(See Rule 36)



TC-11969

Dated:- 01.05.2024

Report No-112

Type of Sample: Legal

I hereby, certify that I Neeraj Bala Board Analyst duly appointed under sub section (3) of section 53 of the Water (Prevention and Control of Pollution) Act 1974 (06 of 1974), received a sample on the 24th day of April, 2024, collected by Sh. Rohtash Dahiya, JEE dated 23th day of April, 2024 of M/s Solid Waste Management Project, VPO- Sheikhpura, Karnal for analysis.

Further certify that I have analyzed the above mentioned sample on 24th-April-2024 to 01st-May-2024 and declare the result of analysis to be as follows:

Sr. No.	Parameter Name	Result	Result	Limit	Test Method
1.	Sample Code	220	221		
2.	Sample Collected from	Inlet of ETP	Outlet of ETP		
3.	pH value at 25 ^o C	8.01	7.72	5.5-9.0	APHA 4500-H+ (B)
4.	Biological Oxygen Demand (mg/l)	190.0	13.0	30	IS 3025 (Part-4A)
5.	Chemical Oxygen Demand (mg/l)	1104.0	68.0	250	APHA 5220 (B)
6.	Total Suspended Solids mg/l	289.0	28.0	100	APHA 2540 (E)
7.	Oil and Grease (mg/l)	19.0	BDL(DL=2)	10	APHA 5520-B
8.	Conductivity at 25 ^o C (μS/cm)	13380.0	1815.0	-	IS 3025 (Part-14)
9.	Total Dissolved Solids mg/l	6252.0	990.0	2100	APHA 2540 (C)

The Conditions of the seals, listening and container on receipt was as follows:

Container had its seal found intact and in order, slip on the container had the signature of the representative of the industry and the Board.

Signed this 01st day of May, 2024

Neeraj Bala
Board Analyst
Haryana State Pollution Control Board Laboratory,
SCO-115, 1st & 2nd Floor, Sector-25, Panchkula, Haryana

To

The Member Secretary, HSPCB, Panchkula

CC to Regional Office: Karnal. This test report relate only to the particular sample submitted for testing.



Form J

(See Rule 36)

Report No-112

Type of Sample: Legal

Dated:- 01.05.2024

I hereby, certify that I Neeraj Bala Board Analyst duly appointed under sub section (3) of section 53 of the Water (Prevention and Control of Pollution) Act 1974 (06 of 1974), received a sample on the 24th day of April, 2024, collected by Sh. Rohtash Dahiya, JEE dated 23th day of April, 2024 of M/s Solid Waste Mangement Project, VPO- Sheikhpura, Karnal for analysis.

Further certify that I have analyzed the above mentioned sample on 24th-April-2024 to 01st -May-2024 and declare the result of analysis to be as follows:

<u>Sr. No.</u>	<u>Parameter</u>	<u>Result</u>	<u>Result</u>	<u>Limit</u>	<u>Test Method</u>
1.	Color	Light Brownish	V.Light Pale	-	-
2.	Odour	Bad	Very Mild	-	-

The Conditions of the seals, listening and container on receipt was as follows:

Container had its seal found intact and in order, slip on the container had the signature of the representative of the industry and the Board.

Signed this 01st day of May, 2024

Haryana State Pollution Control Board Laboratory,
SCO-115, 1st& 2nd Floor, Sector-25, Panchkula, Haryana

To

The Member Secretary, HSPCB, Panchkula

CC to Regional Office: Karnal. This test report relate only to the particular sample submitted for testing.

Neeraj Bala
Board Analyst

End of the Report



DELHI TEST HOUSE



A-62/3, G.T. Karnal Road, Industrial Area, Opp Hans Cinema, Azadpur, Delhi 110 033 (INDIA)
 Phone : + 91-11-47075555 (30 Lines) Fax : + 91 11 47075550
 e-mail : info@delhitesthouse.com

Issued to:

M/s Sugam Swachhita Pvt Ltd
 Sheikhpura, Mos Plant
 Karnal, Haryana-132001

DR-0702

Report No. 2443212111NVA4N111
 Date of Issue 15.12.2023
 Date of Receipt 14.12.2023
 Party Ref No. Nil

Sample Information:- Ambient Air Quality Monitoring

TEST REPORT

GENERAL INFORMATION OF SAMPLING

1. Name & Address of Industry/Unit	:	M/s Sugam Swachhita Pvt Ltd, Sheikhpura, Mos Plant Karnal, Haryana-132001
2. Name of Plant Representative	:	Mr Pratul Thakur
3. Type of Unit	:	M/SW Plant
4. Sampling Location	:	Near I. T.P Plant
5. Date of Monitoring	:	07.12.2023
6. Start Time of Monitoring	:	12:20 PM
7. End Date and Time of Monitoring	:	08.12.2023, 12:20 PM
8. Actual Sampling Duration (Minutes)	:	1440 min
9. Sample Collected by	:	Mr. Raveev Singh,
10. Ambient temperature	:	25°C
11. Sample condition	:	Satisfactory
12. Sampling Protocol	:	IS:5182(P-14)

Test Report

Sl. No.	Test Parameter	Unit	Test Result	Test Method	Concentration in Ambient Air, as per NAAQS
					Industrial, Residential, Rural and other Areas
1	Particulate Matter 10 micron, as (PM 10)	µg/m ³	127	IS 5182(P-23) 2006 RA-2017	100
2	Particulate Matter 2.5 micron, as (PM 2.5)	µg/m ³	95	32 618-5182(P-24) 2019	60
3	Sulphur Dioxide, as (SO ₂)	µg/m ³	30.1	APIA AIR 3 rd Edition	80
4	Nitrogen Dioxide (NO ₂)	µg/m ³	47	IS 5182(P-6) 2006-RA-2017	80
5	Carbon Monoxide, as (CO)	µg/m ³	912	IS 5182(P-10) 1999-RA-2014	2000
6	Carbon oxide (as CO ₂)	ppm	280	IS 5182(P-10) 1999-RA-2014	-
7	Relative humidity	%	65	Hygrometer	-
8	Lead as (Pb)	µg/m ³	BLQ (LOQ 0.1)	APIA AIR 3 rd Edition	1
9	Arsenic as (As)	ng/m ³	BLQ (LOQ 0.010)	IS:5182(P-22)	6
10	Nickel as (Ni)	ng/m ³	BLQ (LOQ 0.2)	IS:5182(P-22)	20
11	Benzene as (C ₆ H ₆)	µg/m ³	BLQ (LOQ 2.0)	IS 5182(P-11) 2006 RA-2017	5
12	Benzo (a) Pyrene-as (Bap)	ng/m ³	BLQ (LOQ 0.5)	IS:5182(P-12) 2001 RA-2014	1
13	Oxygen (as O ₂)	%	21.1	By GC	-

Note:- Figure in bracket indicate minimum detection limit
 Note:- The above result only indicate the value of parameter as observed at the time of monitoring.

BLQ:-Below Limit of Quantification

LOQ:-Limit of Quantification

Date of start of testing : 11.12.2023

Date of completion of testing : 15.12.2023

For report verification email to report_verification@delhitesthouse.com

Tested by

Reviewed by
 End of Report

Authorised Signatory - Director

ISO - 9001 : 2015 CERTIFIED LABORATORY

Other Lab : Plot No. 50 & 65, Phase - IV, Sector-57, HSIDC Industrial Estate, Behind Hasija Hospital, Kundli, Sonapat-131028 (Haryana)
 : F - 402, Transport Nagar, Kanpur Road, Lucknow - 226012 (U.P.)



Type of Sample:-Monitoring
Haryana State Pollution Control Board's Laboratory
SCO-115, 1st & 2nd Floor, Sec-25, Panchkula, Haryana



Report No. 4851

Dated : 15.03.2024

Issued to M/s Outlet of Tubewell near dumping site at Village Binjhol, Panipat.

Description: Received on 06.03.2024 a sample of Tubewell collected by Sh. Ajay Ahlawat, AEE and Sh. Kuldeep Singh, AEE from Ground Water of the tubewell on 05.03.2024. The sample has been analyzed from 06th-March-2024 to 15th-March-2024.

Sr. No.	Parameter Name	Result	Methods
1.	Sample Code	7074	
2.	Sample Collected from	tubewell	
3.	pH value at 25°C	7.81	APHA 4500H+B(24 th Edition)
4.	Total Suspended Solids mg/l	BDL(DL=05)	APHA 2540-D(24 th Edition)
5.	BOD (3 days at 27°C) mg/l	BDL(DL=01)	IS 3025(Part-44)
6.	COD (mg/l)	BDL(DL=05)	APHA 5220-(B)(24 th Edition)
7.	Conductivity (u S/cm) at 25°C	309.0	IS 3025(Part-14) 2013
8.	Total Dissolved Solid (mg/l)	160.0	APHA2540-C(24th Edition)
9.	Chloride (mg/l)	19.99	IS:3025(part-32) 2019
10.	Calcium (mg/l)	64.0	IS 3025 (Part-40)
11.	Magnesium (mg/l)	15.552	IS:3025 (Part-46)
12.	Total Hardness (mg/l)	224.0	IS:3025 (Part-23)
13.	Total Alkalinity as CaCO ₃ (mg/l)	276.0	IS:3025 (Part-23)
14.	P-Alkalinity as OH+CO ₃ (mg/l)	18.0	IS:3025 (Part-23)

Sample Not Collected by us
Sample Consumed in testing
CC to Member Secretary, HSPCB

JSA
Megha

Sc.B
Jyotika

Laboratory In-charge
Dr. Pinki Jangra

CC to Regional Office: Panipat. The test report relate only to the particular sample submitted for testing.



Type of Sample:-Monitoring
Haryana State Pollution Control Board's Laboratory
SCO-113, 1st & 2nd Floor, Sec-25, Panchkula, Haryana

Report No. 4851

Dated : 15.03.2024

Issued to M/s. Outlet of Tubewell near dumping site at Village Binjhol, Panipat.


Description: Received on 06.03.2024 a sample of Tubewell collected by Sh. Ajay Ahlawat, AEE and Sh. Kuldeep Singh, AEE from Ground Water of the tubewell on 05.03.2024. The sample has been analyzed from 06th -March-2024 to 15th -March-2024.

Sr. No.	Parameter Name	Result	Methods
1.	Color	Colourless	-
2.	Odour	Odourless	-
3.	Ammonical- N (mg/l)	BDL(DL=0.5)	APHA 4500-NH ₃ (F)
4.	Nitrate - N (mg/l)	BDL(DL=0.5)	APHA 4500-NO ₃ (B)
5.	Turbidity NTU	BDL(DL=01)	IS 3025, Part-10
6.	Sulphate (mg/l)	56.47	APHA 4500-SO ₄ ²⁻ (E)
7.	Fluoride (mg/l)	0.10	APHA 4500-F (D)
8.	Total Phosphate (mg/l)	BDL(DL=0.4)	APHA 4500-P (D)
9.	Sodium (mg/l)	3.9	APHA 3500-Na (B)
10.	Potassium (mg/l)	0.8	APHA 3500-K (B)

Sample Not Collected by us
Sample Consumed in testing
CC to Member Secretary, HSPCB
CC to Regional Office: Panipat. The test report relate only to the particular sample submitted for testing.


ISA
Megha


Sc. B
Iyotika


Laboratory In-charge
Dr. Pinki Jangra

End of the Report



**PREVENT
POLLUTION**



TC-11156

FORM J
(See Rule 36)

Report No.:-2263

Dated - March 21, 2024

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 16th day of March, 2024 from Sh. Ravinder Yadav, AEE, a sample of liquid effluent of M/s Integrated Solid Waste Management Facility at Murthal, C/o M/s JBM Environment Management Pvt. Ltd., Tajpur-Murthal Road, Murthal, Sonipat, collected on 15.03.2024 from the Submersible pump at premises of unit for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 16/03/2024 to 21/03/2024 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	From the Submersible pump at premises of unit	Test Method
1.	pH Value at 25°C	7.50	APHA 4500 H ⁺ B (24 th Edition 2023)
2.	Conductivity μ S/cm at 25°C	2540	APHA 2510 B (24 th Edition 2023)
3.	Total Suspended Solids mg/l	16	APHA 2540 - D (24 th Edition 2023))
4.	B.O.D.(5 Days at 20 ^o C) mg/l	8	APHA 5210-C (24 th Edition 2023)
5.	Chemical Oxygen Demand mg/l	44	APHA 5220-B (24 th Edition 2023)
6.	Oil & Grease mg/l	BDL* (DL**=4)	APHA 5520-B (24 th Edition 2023)
7.	Total Dissolved Solids mg/l	1390	APHA 2540-C (24 th Edition 2023)

BDL* = Below Detection Limit

DL** = Detection Limit

The condition of the seals, fastening and container on receipt was as follow:

Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.

Signed this on **21st day of March, 2024**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad

Narender Hooda
Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Sonipat / M/s Integrated Solid Waste Management Facility at Murthal, C/o M/s JBM Environment Management Pvt. Ltd., Tajpur-Murthal Road, Murthal, Sonipat

Endst. No. HSPCB/LAB/F/2024/ 11160

Dated: 21-3-24

This test report relate only to the particular sample submitted for testing



**PREVENT
POLLUTION**

FORM J
(See Rule 36)

Report No.: -2263
Dated - March 21, 2024

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 16th day of March, 2024 from Sh. Ravinder Yadav, AEE, a sample of liquid effluent of M/s Integrated Solid Waste Management Facility at Murthal, C/o M/s JBM Environment Management Pvt. Ltd., Tajpur-Murthal Road, Murthal, Sonipat, collected on 15.03.2024 from the Submersible pump at premises of unit for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 16/03/2024 to 21/03/2024 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	From the Submersible pump at premises of unit	Test Method
1.	Colour	Colorless	----
2.	Odour	Odourless	----
3.	T-Alkalinity	346.3	----
4.	TKN mg/l	9.34	----
5.	Ammonical Nitrogen as N mg/l	3.50	----
6.	Chloride as Cl	378.4	----
7.	Nitrate as N	4.47	4500-N Org. - B APHA 24 th Edition 2023
8.	Nitrite as N	BDL (DL=0.005)	IS 3025 (Part 23) 1986 (Reaffirmed 2019)
9.	Iron as Fe	1.2	IS 3025 (Part 23) 1986 (Reaffirmed 2019)
10.	Nickel as Ni	0.8	----
11.	Fluoride	1.33	APHA 4500-Cl-B 24 th Edition 2023
12.	Phosphate as P	0.8	APHA 4500 F 24 th Edition 2023
13.	Sulphate as SO ₄	201.4	IS 3025 (Part-31):1988 (Reaffirmed 2003)
14.	Calcium as Ca	91.78	IS 3025 (Part-24):1986 (Reaffirmed 2009)
15.	Magnesium as Mg	55.64	APHA 3500-Ca (B) 24 th Edition 2023
16.	Total Hardness	464	APHA 3500-Mg (B) 24 th Edition 2023

The condition of the seals, fastening and container on receipt was as follow:

Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.

Signed this on **21st day of March, 2024**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad

Narender Hooda
Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Sonipat / M/s Integrated Solid Waste Management Facility at Murthal, C/o M/s JBM Environment Management Pvt. Ltd., Tajpur-Murthal Road, Murthal, Sonipat

Endst. No. HSPCB/LAB/F/2024/ 11169

Dated: 21-3-24

This test report relate only to the particular sample submitted for testing



**PREVENT
POLLUTION**



TC-11156

FORM J
(See Rule 36)

Report No.:-2262

Dated - March 21, 2024

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 16th day of March, 2024 from Sh. Ravinder Yadav, AEE, a sample of liquid effluent of M/s Integrated Solid Waste Management Facility at Murthal, C/o M/s JBM Environment Management Pvt. Ltd., Tajpur-Murthal Road, Murthal, Sonipat, collected on 15.03.2024 from the Inlet & Outlet of LTP for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 16/03/2024 to 21/03/2024 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	Inlet of LTP	Outlet of LTP	Prescribed Limits	Test Method
1.	pH Value at 25°C	5.58	7.35	5.5-9.0	APHA 4500 H ⁺ B (24 th Edition 2023)
2.	Conductivity μ S/cm at 25°C	10650	2860	-----	APHA 2510 B (24 th Edition 2023)
3.	Total Suspended Solids mg/l	570	32	100	APHA 2540 - D (24 th Edition 2023))
4.	B.O.D.(5 Days at 20 ^o C) mg/l	340	13	30	APHA 5210-C (24 th Edition 2023)
5.	Chemical Oxygen Demand mg/l	1680	72	250	APHA 5220-B (24 th Edition 2023)
6.	Oil & Grease mg/l	28.2	BDL* (DL**=4)	10	APHA 5520-B (24 th Edition 2023)

BDL* = Below Detection Limit

DL** = Detection Limit

The condition of the seals, fastening and container on receipt was as follow:

Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.

Signed this on **21st day of March, 2024**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad

Narender Hooda
Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Sonipat / M/s Integrated Solid Waste Management Facility at Murthal, C/o M/s JBM Environment Management Pvt. Ltd., Tajpur-Murthal Road, Murthal, Sonipat

Endst. No. HSPCB/LAB/F/2024/ 11157

Dated: 21-3-24

This test report relate only to the particular sample submitted for testing



**PREVENT
POLLUTION**

FORM J

(See Rule 36)

Report No.:-2262

Dated - March 21, 2024

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (3) of section 53 of Water (Prevention and control of Pollution) Act, 1974(6 of 1974) received on the 16th day of March, 2024 from Sh. Ravinder Yadav, AEE, a sample of liquid effluent of M/s Integrated Solid Waste Management Facility at Murthal, C/o M/s JBM Environment Management Pvt. Ltd., Tajpur-Murthal Road, Murthal, Sonipat, collected on 15.03.2024 from the Inlet & Outlet of LTP for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 16/03/2024 to 21/03/2024 and declare the result of analysis to be as follow:-

Sr. No.	Parameter	Inlet of LTP	Outlet of LTP	Prescribed Limits	Test Method
1.	Colour	Blackish	Almost Colorless	-----	----
2.	Odour	Bad	S. Mild	----	----

The condition of the seals, fastening and container on receipt was as follow:

Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.

Signed this on **21st day of March, 2024**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad


Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Sonipat / M/s Integrated Solid Waste Management Facility at Murthal, C/o M/s JBM Environment Management Pvt. Ltd., Tajpur-Murthal Road, Murthal, Sonipat

Endst. No. HSPCB/LAB/F/2024/ 11157

Dated: 21-3-24

This test report relate only to the particular sample submitted for testing



FORM IV
(See Rule 14)

Report No.:- 760

Dated-March 19, 2024

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (2) of section 29 of Air (Prevention and control of Pollution) Act, 1981(14 of 1981) received on the 16th day of March, 2024 from Sh. Ravinder Yadav, AEE, a sample of air emission of M/s Integrated Solid Waste Management, Facility at Murthal, C/o M/s JBM Environment Management Pvt. Ltd., Tajpur Murthal Road, Murthal, Sonipat, collected on 15.03.2024 from Stack attached to Boiler Section (45 T/hr Capacity) for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 16/03/2024 to 19/03/2024 and declare the result of analysis to be as follow:-

1.	Name of the Plant/emission source monitored	Boiler Section (45 T/hr Capacity)	
2.	Stack Identification/Type of Chimney	Stack attached to Boiler Section	
3.	Location of sampling Point	As per norms	
4.	Stack height (mt)	---	
	(a) From source of emission	---	
	(b) From the roof level	---	
	© From the ground level	60 meter	
5.	Diameter of Stack	1.8 meter	
6.	Sampling duration	30 min	
7.	Product Manufactured	Waste to Energy Plant	
8.	Stack Temperature	172°C	
9.	Wind condition/Direction	W-E	
10.	Type of Fuel	Domestic Waste	
11.	Quantity of Emission m ³ /sec	22.7332	
		Results	Prescribed Limits
12.	Suspended Particulate Matter mg/ Nm ³	21.9	80
13.	Sulphur Dioxide mg/ Nm ³	6.8	50
14.	Oxides of Nitrogen mg/ Nm ³	3.1	50

The condition of the seals, fastening and container on receipt was as follow:
Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.
Signed this on **19th day of March, 2024**

Haryana State Pollution Control Board Laboratory,
Sector-16 A, Faridabad

N Hooda
Board Analyst

To
The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Sonipat / M/s Integrated Solid Waste Management, Facility at Murthal, C/o M/s JBM Environment Management Pvt. Ltd., Tajpur Murthal Road, Murthal, Sonipat

Endst. No. HSPCB/LAB/F/2024/ 11088

Dated: 19-3-24

This test report relate only to the particular sample submitted for testing


FORM IV
 (See Rule 14)

 Report No.:- 412
 Dated- October 06, 2023

I, hereby, certify that I Narender Hooda as Board Analyst, duly appointed under sub section (2) of section 29 of Air (Prevention and control of Pollution) Act, 1981(14 of 1981) received on the 29th day of September, 2023 from Sh. Ravinder Yadav AEE, a sample of air emission of M/s JBM Environment Management Pvt. Ltd., Village-Tajpur, Murthal Road, Sonipat, collected on 28.09.2023 from Ambient Air Quality Monitoring for analysis. The Sample was in a condition fit for analysis reported below:-

I further certify that I have analyzed the afore-mentioned sample on 29/09/2023 to 06/10/2023 and declare the result of analysis to be as follow:-

1. Name of the Plant/emission source monitored	AAQ PM ₁₀ ug/m ³ (06.00 PM to 02.00 AM)		AAQ PM ₁₀ ug/m ³ (02.00 AM to 10.00 AM)		AAQ PM ₁₀ ug/m ³ (10:00 AM to 06:00 PM)		AAQ PM _{2.5} ug/m ³ (10:00 AM to 06:00 PM)	
	Results	Prescribed Limits	Results	Prescribed Limits	Results	Prescribed Limits	Results	Prescribed Limits
2. Sampling duration	8 Hrs		8 Hrs		8 Hrs		24 Hrs	
3. Product manufactured	Waste to Energy Plant		Waste to Energy Plant		Waste to Energy Plant		Waste to Energy Plant	
4. Normal operating schedule	----		----		----		----	
5. Wind condition/Direction	----		----		----		----	
6. Sulphur Dioxide µg/ m ³	13.6	----	15.1	----	14.7	----	7.2	----
7. Oxides of Nitrogen µg/ m ³	6.8	----	5.3	----	3.8	----	3.0	----
8. PM ₁₀ µg/ m ³	24.1	100	22.5	100	28.3	100	----	----
9. PM _{2.5} µg/ m ³	----	----	----	----	----	----	41.6	60

The condition of the seals, fastening and container on receipt was as follow:
 Container had its seals found intact in order; slip on the container had the signature of the representative of the industry and the board representative.
 Signed this on **06th day of October, 2023**

 Haryana State Pollution Control Board Laboratory,
 Sector-16 A, Faridabad


 Board Analyst

To

The Member Secretary, HSPCB, Panchkula/ Regional Office, HSPCB, Sonipat

Endst. No. HSPCB/LAB/F/2023/ 7032-7033

Dated: 06/10/2023

This test report relate only to the particular sample submitted for testing

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