

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
NEW DELHI

ORIGINAL APPLICATION NO. 607/2024

News Item titled "In Lucknow's waste - side story plastic peril paints grim picture"
appearing in The Hindustan Times dated 22.04.2024.

Current Status by way of affidavit filed by the Lucknow Municipal Corporation (LMC) pursuant to the order dated 06.12.2024 passed by this Hon'ble Tribunal

I, Sanjeev Pradhan, S/o Late. S.C. Pradhan, aged about 58 years, working as Environment Engineer, Lucknow Municipal Corporation, Lucknow, U.P., do hereby solemnly affirm and declare as under:

1. That I, the deponent, in my official capacity, is well conversant with the facts and circumstances of the case and am competent to swear this affidavit on behalf of the Respondent/Lucknow Municipal Corporation (LMC).

2. Status of Solid waste Management

I. Fresh waste Processing - Lucknow generates 2100 TPD of fresh municipal solid waste. The LMC has contracted M/S Bhumi Green Energy Pvt. Ltd. to process 1000 TPD, with the option to increase to 2000 TPD for both wet and dry waste over three years. The city has installed infrastructure totaling 2100 TPD capacity, effectively managing the current waste generation. Decentralized methods handle over 300 TPD through home composting (over 18,000 households), on-site processing (63 bulk generators), and compost pits in parks. Additionally, over 80 TPD of dry and recyclable waste is collected. For future management, LMC is exploring a potential 2000+ TPD waste-to-energy plant with NTPC and has an ongoing 300 TPD Bio-CNG project expected to divert significant organic waste and produce Bio-CNG and manure, along with environmental and employment benefits (Annexure-I).

II. Legacy waste Processing- Lucknow Municipal Corporation (LMC) previously processed over 6.5 lakh tons of legacy waste at the Ghaila Dump Site, which has now been handed over to the LDA for the development of the Rashtriya Prerna Sthal. Currently, LMC is managing over 1.85 million MT of legacy waste at other abandoned dump sites. M/S Bhumi Green Energy Private Limited is undertaking the bio-remediation using a 4000 TPD processing plant, and approximately 1 million MT has been processed to

date. By-products are disposed of as per CSIR-NEERI guidelines. A 25-hectare green belt is being developed on a reclaimed area, with Canna lilies planted for heavy metal pollution control. (Annexure-II).

- III. Additionally, 175,522.33 MT of Refuse Derived Fuel (RDF) has been produced from non-recyclable plastic waste and sent to cement factories (Annexure-III).
- IV. **Material Recover Facility-** The Lucknow Municipal Corporation (LMC) has nine operational Material Recovery Facilities (MRFs), with one additional MRF currently under construction, bringing the total number of MRFs to ten. A fully mechanized MRF located in Gwari and a semi-automatic MRF in Jankipuram are operated by M/S Lucknow Swacchata Abhiyan Pvt. Ltd. (LSA). The MRFs situated in Rajajipuram (Alitarang), Kesrikheda, Vrindavan Sec-8, and Southcity are operated by M/S Lion Enviro Lucknow Pvt. Ltd. in a semi-mechanized form. Additionally, Two MRFs are manually operated. The management of all MRFs falls under the scope of work of the door-to-door waste collecting and transporting companies, namely M/S Lucknow Swacchata Abhiyan Pvt. Ltd. and M/S Lion Enviro Lucknow Pvt. Ltd (Annexure-IV).
- V. Under the CM GRID Scheme, non-recyclable plastic waste is being utilized for sustainable road construction. By replacing 6-10% of bitumen with plastic waste, this initiative has facilitated the construction of 2 km of roads using 9.6 tons of plastic waste. Additionally, LDA has used 6.36 tons of plastic waste for constructing three roads in Gomti Nagar Vistar. To support this initiative, shredder machines have been installed at six MRFs.
- VI. The Lucknow Municipal Corporation has intensified inspections targeting retailers and street vendors using non-compliant plastic carry bags, multilayered packaging, or similar items without proper manufacturing labels or markings. From April 2024 to March 2025, penalties totaling Rs. 17,38,700 /- have been imposed, and 14260/- kg of single-use plastic has been seized (Annexure-V).
- VII. As part of ongoing efforts to manage seized single-use plastic, M/S Shree Shyam Packaging, the designated agency, has collected the entire 14,260 Kg of seized plastic from all zones within the Lucknow Municipal Corporation. According to the agreement, the company was expected to return by-products equivalent to 50% of this weight, totaling 7,130 kg. However, to date, M/S Shree Shyam Packaging has provided 3380 kg of by-products derived from the collected plastic waste back to the LMC (Annexure-VI).
- VIII. In the pumping stations mesh filtras have installed for the collection of the plastics which are flow from the drains (Annexure-VII).

- That the deponent is a responsible Government servant having the highest regards of the Hon'ble Tribunal and orders passed by it. The deponent has always made his sincerest efforts to carry out the orders passed by this Hon'ble Tribunal in its letter and spirit and shall continue to do so in the future.
- That the facts stated in the above affidavit are true and correct as per my personal knowledge and belief. No part of affidavit is false and nothing material has been concealed therefrom.

पर्यावरण अभियन्ता
लखनऊ
Deponent

Verification:-

Verified at Lucknow this the 1st day of April, 2025 that the contents of above affidavit are based on the information derived from the official record and as such true and correct as per my knowledge and belief, no part of it is false and nothing material has been concealed therefrom.

Deponent

Filed by:



MUKESH VERMA
Advocate for respondent
Ch. No.50,
Old Block Supreme Court of India
New Delhi-110001 (M) 9810108098
E-mail: mvermadv@gmail.com

Annexure I- Fresh Waste Processing Status

The tender process has concluded for the processing of fresh waste in Lucknow, with M/S Bhumi Green Energy Pvt. Ltd. appointed as the service provider. This agreement covers the processing of 1000 TPD of Municipal Solid Waste (MSW), with a provision for expansion to 2000 TPD to handle both wet and dry waste streams, and is set for a duration of three years. Currently, the total waste generation of municipal solid fresh waste within the Lucknow Municipal Corporation limits is 2000 TPD. The infrastructure includes 3x700 TPD units, resulting in a total capacity of 2100 TPD, which have been successfully installed to manage the incoming fresh waste, indicating a zero gap between waste generation and its processing.

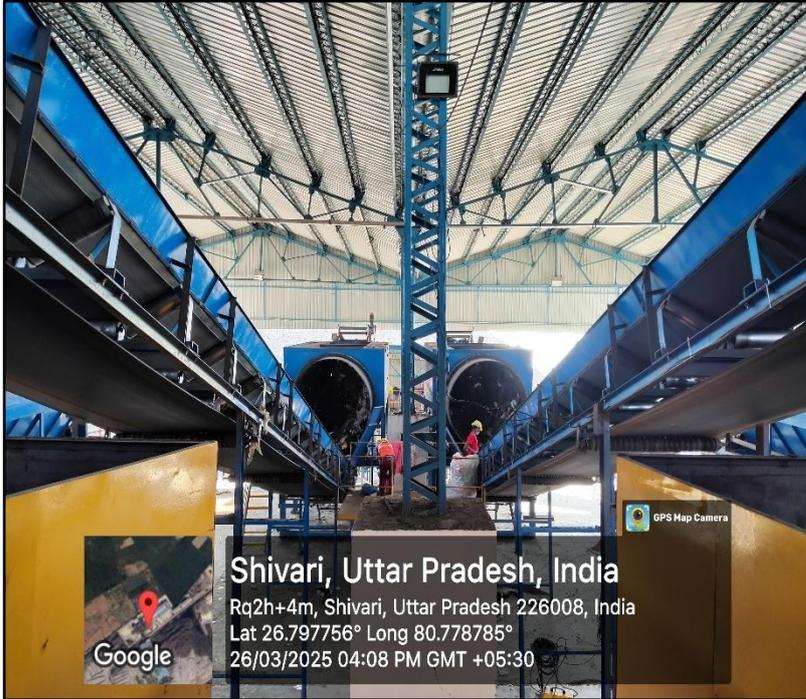
Beyond this large-scale processing, the city also employs decentralized methods to manage a significant portion of its waste. Over 300 TPD of municipal waste, encompassing wet, dry, and recyclable fractions, is handled through various initiatives. Notably, more than 18,000 households are engaged in home composting for their wet waste. Additionally, 63 bulk waste generators process their wet waste within their own premises. Furthermore, horticulture and kitchen waste from parks are managed in over 1,000 compost pits situated across the city.

In terms of dry and recyclable waste, the city sees a collection of over 80 TPD. This is achieved through the efforts of ragpickers, recyclers, and the operation of Material Recovery Facilities (MRFs). These combined efforts contribute to a more comprehensive approach to managing the city's solid waste.

Looking towards long-term solutions for solid waste management, the Lucknow Municipal Corporation (LMC) has been proactive. An Expression of Interest was previously issued for a waste-to-energy plant with a capacity of 2000 TPD, to be developed based on a PPP model.

In a separate but related development, a project focusing on Bio-CNG production is underway. This project, with a capacity of 300 tons per day (TPD), is anticipated to divert approximately 0.94 lac tons of organic waste from landfills annually. The expected daily output includes around 12.5 TPD of Bio-CNG and approximately 50 tons of fermented organic manure. This initiative is projected to have significant environmental benefits, including the mitigation of more than 0.625 lac tons of carbon dioxide and other greenhouse gases annually, aligning with the nation's decarbonization goals. Moreover, these projects are expected to stimulate employment in the state, providing direct and indirect jobs to over 250 individuals.

Fresh Waste Processing Plant with Integrated Compost Unit



Other Plants installed at Shivari (Black Hole) Hazardous Waste/Reject Disposal Plant



- Avg. 5 TPD Dry waste Burn per day
- Based on Plasma Technology

Manufacturing of Rope from Coconut Shell- New Initiative



Leachate Treatment Plant



Aeration Tank



Chemical Mixing



Settling and Sludge Tank



Pump and Blower



Carbon Filter and Clear Water Tank



नगर निगम लखनऊ

<p>प्रेषक, पर्यावरण अभियन्ता, नगर निगम, लखनऊ।</p>	<p>सेवा में, M/s BHUMI GREEN ENERGY, PUNE.</p>
<p>पत्र संख्या :- डी/६६३ / पर्या0अभि0 / 24</p>	<p>दिनांक :- 29 अक्टूबर, 2024</p>

Letter of Intent (LOI)

विषय : Letter of Intent for selection of contractor for Supply, Installation, Commissioning of 1000 TPD Municipal Solid Waste extendable up to 2000TPD (Wet & Dry) processing plant at Shivari, Lucknow and its operation & maintenance for a period of minimum 03 years.

उपरोक्त विषयक कार्य हेतु दिनांक 10.09.2024 को आमंत्रित निविदा में दी गयी न्यूनतम दर रू0 988.00 प्रति मी0टन को आप द्वारा निविदा समिति के समक्ष रू0 943.00 प्रति मी0टन पर अपनी सहर्ष सहमति प्रदान की गयी है। जिसे नगर आयुक्त महोदय की अध्यक्षता वाली कमेटी द्वारा स्वीकार कर लिया गया है।

अतः उपरोक्त कार्य का अनुबन्ध रू0 100/- के जनरल स्टैम्प पेपर पर कराये जाने के साथ आर0एफ0पी0 में दिये गये प्राविधान के अनुसार एक वर्ष की अनुमानित धनराशि का 5% परफार्मेंन्स सिक्योरिटी रू0 2.60 करोड़ बैंक गारण्टी/एफ0डी0आर0 के रूप में जमा करते हुए 15 दिवस में अनुबन्ध कराया जाना सुनिश्चित करें।

भवदीय


पर्यावरण अभियन्ता
नगर निगम लखनऊ

प्रतिलिपि :

1. नगर आयुक्त महोदय को सादर सूचनार्थ।
2. अपर नगर आयुक्त महोदय को सादर सूचनार्थ।

पर्यावरण अभियन्ता
नगर निगम लखनऊ

300 TPD Bio-CNG Plant



Aerobic Composting pits in parks

Total 1315 No. compost pits have been constructed for effective waste management in 600 parks. The utilization of mulching techniques further enhances waste management practices within these park areas.



Annexure II- Bioremediation of Legacy Waste Dump Sites

Ghaila Site

More than 6.5 lakh tons of legacy waste at the Ghaila Dump Site were processed by the Lucknow Municipal Corporation. Currently, this site has been handed over to the Lucknow Development Authority (LDA). The LDA is developing the Rashtriya Prerna Sthal, which will be spread over 65 acres. The site will house a museum dedicated to prominent personalities, a massive rally ground that can accommodate 100,000 people, and more.



Shivri Site

This overview details the ongoing initiative for the bio-remediation of legacy waste and abandoned dump sites, specifically focusing on the management of over 1.85 million Metric Tons (MT) of legacy waste. The tender process for this crucial waste management project has been successfully concluded, resulting in the selection of M/S Bhumi Green Energy Private Limited for the processing of the legacy waste.

For the legacy waste management, M/S Bhumi Green Energy Private Limited is undertaking the processing of 1.85 million MT of waste. To achieve this, the company has established a processing plant with a total capacity of 4000 tons per day (TPD). Through diligent efforts and strict adherence to operational protocols, M/S Bhumi Green Energy Private Limited has effectively processed approximately 1 million MT of legacy waste between March 2024 and the present date. The by-products of the legacy waste are disposed of according to the norms and as per the directions of the CSIR-National Environmental Engineering Research Institute (NEERI), Nagpur.

A green belt is being developed in a 25-hectare reclaimed area of the dump site, and Canna lilies have been strategically planted to assist in controlling heavy metal pollution in the soil. A significant aspect of Bhumi Green Energy Private Limited's strategy is the production of Refuse Derived Fuel (RDF), which converts non-recyclable plastic waste into energy. Currently, 175,522.33 MT of RDF has been sent to cement factories.

Sr. No.	Legacy Waste Summary													
	MONTH	Intake (In MT)		Net Qty Of By Products				Production (In		Net Qty Of By Products				
		Intake Feed (In MT)	Qty Of Waste Processed (In M.T.)	Moisture loss	C&D Waste	Coarse Fraction (Below 22 mm)	Biosoil (Below 6 MM)	RDF	Total By Products (Quantity)	C&D Waste	Coarse Fraction (Below 22 mm)	Biosoil (Below 6 MM)	RDF	Total By Products Dispatched
1	14 March To 31 March-2024	30652.88	29777.88	5955.58	6848.91	10422.26	1191.12	5360.02	29777.88	1409.35	2079.56	0.00	2773.72	6262.63
2	01 April To 30 April-2024	75009.53	75118.07	15023.61	17277.16	26291.32	3004.72	13521.25	75118.07	13710.5	14822.53	80.49	11518.32	40131.84
3	1 May To 31 May-2024	110060.39	110437.05	22087.41	25400.52	38652.97	4417.48	19878.67	110437.05	12222.50	17760.00	0.00	20913.37	50895.87
4	1 June To 30 June-2024	106158.55	100300.00	20060.00	23069.00	35105.00	4012.00	18054.00	100300.00	6579.00	17040.00	382.65	15576.61	39578.26
5	1 July To 31 July-2024	109105.36	103225.00	20645.00	23741.75	36128.75	4129.00	18580.50	103225.00	27563.00	25420.00	145.63	11272.42	64401.05
6	1 Aug To 31 Aug-2024	63806.45	75010.00	15002.00	17252.30	26253.50	3000.40	13501.80	75010.00	24660.50	21360.00	1298.51	11376.88	58695.89
7	1 Sep-2024 31 Sep-2024	51540.00	43460.00	7822.80	8040.10	17818.60	2173.00	7605.50	43460.00	19887.50	39400.00	296.05	9513.74	69097.29
8	1 Oct -2024 to 31 Oct-2024	69107.70	72900.00	13122.00	13486.50	29889.00	3645.00	12757.50	72900.00	11137.00	47560.00	682.68	9232.70	68612.38
9	1 Nov -2024 to 30 Nov-2024	81652.55	80220.00	14439.60	14840.70	32890.20	4011.00	14038.50	80220.00	18898.50	48900.00	1320.83	6100.14	75219.47
10	1 Dec-2024 To 31 Dec-2024	91744.18	93730.00	16871.40	17340.05	38429.30	4686.50	16402.75	93730.00	30229.00	52520.00	129.77	11768.65	94647.42
11	1 Jan-2025 To 31 Jan-2025	82472.18	84560.00	15220.80	15643.60	34669.60	4228.00	14798.00	84560.00	11954.00	32780.00	592.78	13251.72	58578.50
12	1 Feb-2025 To 28 Feb-2025	85805.70	83210.00	14977.80	15393.85	34116.10	4160.50	14561.75	83210.00	12835.50	31460.00	875.82	21730.28	66901.60
GRAND TOTAL		957115.470	951948.000	181228.000	198334.440	360666.600	42658.720	169060.240	951948.000	191086.350	351102.090	5805.210	145028.550	693022.200

Project Area Detail & Timeline for Completion

S.No.	Legacy Waste Quantity (Tonne)	Budget allocation (in Lakh)	Present Status	Estimated work Completion Timeline
1	18,49,902	10618.00	4000 TPD Processing plant is operational	December 2025

Legacy Waste Status: Before and After



Before



Current

Site division and Process Planning

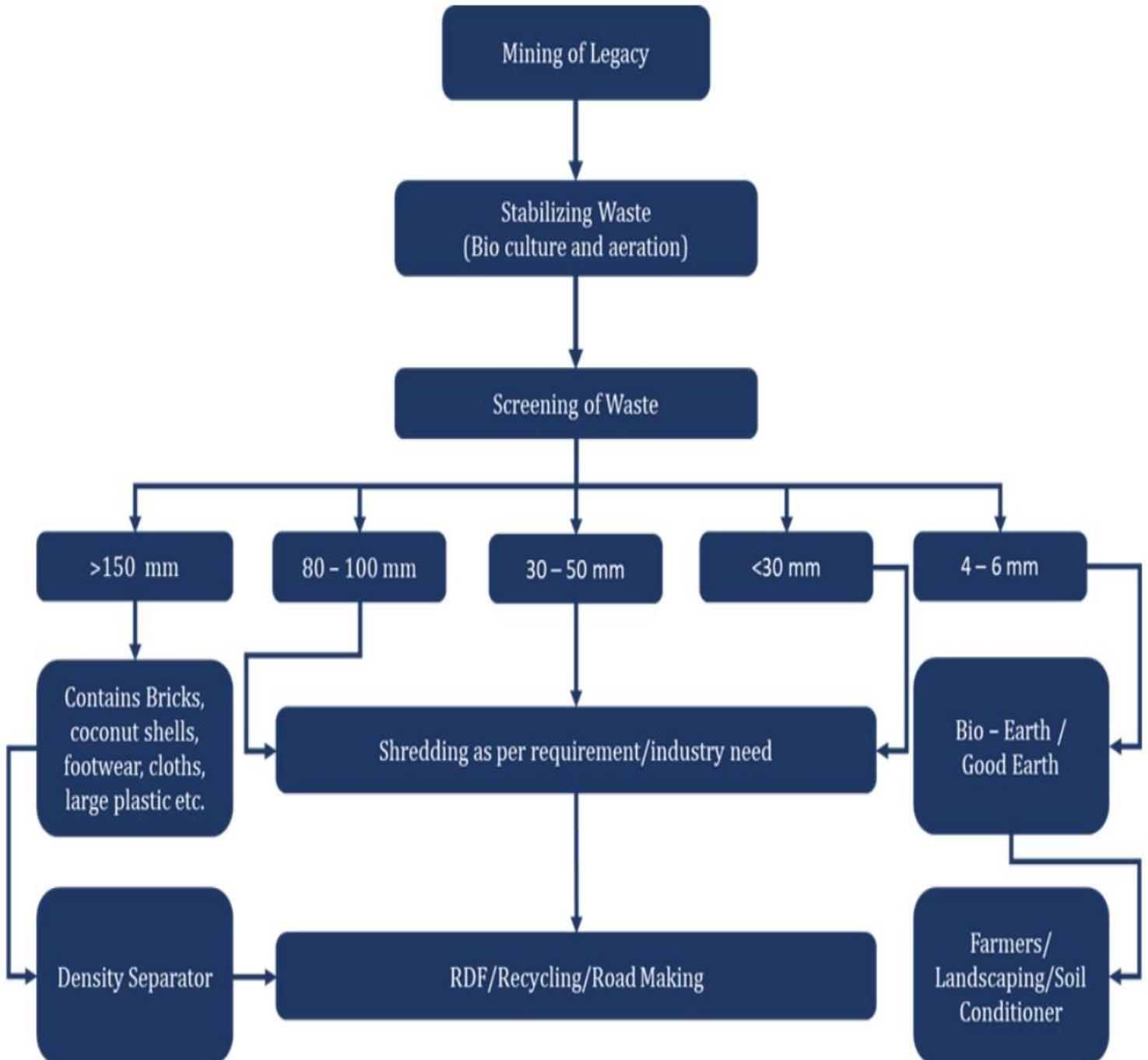


- A- 2 LMT
- B- 3LMT
- C- 4LMT
- D- 2LMT

- E- 3LMT
- F- 3LMT
- G- 2LMT
- H- 2LMT

* LMT is Lakh Metric Tons. Section A is completed and Section C is currently being done. Section B will be covered with sheets for monsoon 1.25LMT per month will be the pace of work. 20LMT will be completed in 16 months.

Legacy Waste Processing Methodology as per Central Pollution Control Board (CPCB)-
CPCB has published a methodology/guidelines for undertaking biomining/bioremediation work.





Heap Treatment for Controlling Odor



Water Sprinkling for Controlling Dust

LMC processes waste pile equivalent to 3-storey bldg

Vivek Chauhan
@timesofindia.com

Lucknow: Lucknow Municipal Corporation (LMC) has reclaimed 15 acres of land at the Shivri Plant on Mohan Road through the scientific processing of approximately 7 lakh metric tonnes of legacy waste, a process that began in March this year.

In a report released on Nov 28, LMC disclosed that the Shivri plant, spanning 40.4 acres, previously housed a massive waste pile equivalent to a three-storey building. This mound, spread over 30 acres, amounted to 18.56 lakh metric tonnes of waste—about a three-storey building. The buildup was attributed to poor waste management practices by the previous contractor, M/s Eco Green Energy Pvt. Ltd., which processed only a fraction of the waste between 2016 and 2022.

To address the issue, LMC cancelled the contractor's agreement and, with govt approval, allocated Rs 95.53 crore in Jan for waste clearance.

Bhumi Green Pvt. Ltd. was appointed in March to carry out the task, with additional funds bringing the total allocation to Rs 106.18 crore for managing any surplus waste. By Nov 2024, the private firm processed 39% of the legacy waste, with work on track to clear the remaining 11.56 lakh metric tonnes within the next 12 months. The company set up facilities capable of processing 4,000 metric tonnes of waste daily using two plants with four advanced machines. To manage the leachate produced from the waste, a dedicated treatment plant was set up.

Officials said that waste is processed scientifically, with byproducts such as construction and demolition (C&D) materials, coarse soil, and other residuals being redirected for industrial and construction uses. So far, approximately 1 lakh metric tonnes of Refuse Derived Fuel (RDF) was prepared and supplied for industrial purposes. A dedicated treatment plant was also installed to manage leachate, ensuring minimal environmental impact.

Additional municipal commissioner Dr Arvind Rao said, "This project is a transformative step for the city. Not only have we successfully reduced a massive waste pile, but we've also reclaimed 15 acres of land, which is already being developed into a garden. This green space will improve the environment and serve as a model for urban development. Going forward, this reclaimed land holds the potential to be used for further urban infrastructure projects, enhancing the quality of life for residents."




Green Belt Development on Reclaimed Land

Biomining Machinery in Processing Plant



Third Party Monitoring by Reputed Institutes

- **National Environmental Engineering and Research Institute (NEERI)-** A CSIR institute and an Apex Environment-related body in India have been jointly appointed to oversee the by-product characterization and disposal monitoring for this project.
- **Indian Institute of Technology, Roorkee-** Appointed as third party for quantity and volumetric monitoring.
- **Veermata Jijabai Technological Institute (VJTI)-** Appointed as third party for quantity and volumetric monitoring.



Site Visit Observation of Shivari by CSIR-NEERI

1. LMC has constructed a Bio-mining processing plant at Shivari dumpsite and it was seen operational during the site visit.
2. The Legacy waste was being excavated, biodegradation culture was sprayed and the processed waste was brought to the plant.
3. Oversize materials such as big cloth, plastic, stones, etc. were segregated manually to avoid damage to the processing machinery.
4. Product separation was seen in Bio-mining mechanical operations in stages. Products segregated from the plant were kept separately before dispatch.
5. The plant structure and machinery appear adequate for the Bio-mining operations as per Legacy Waste CPCB Guidelines 2019, and improvements can be made.
6. As the project progresses, project work will proceed according to the project proposal. The samples from SLF will also be collected to analyze the MSW components to confirm their feasibility for processing in Biomining.



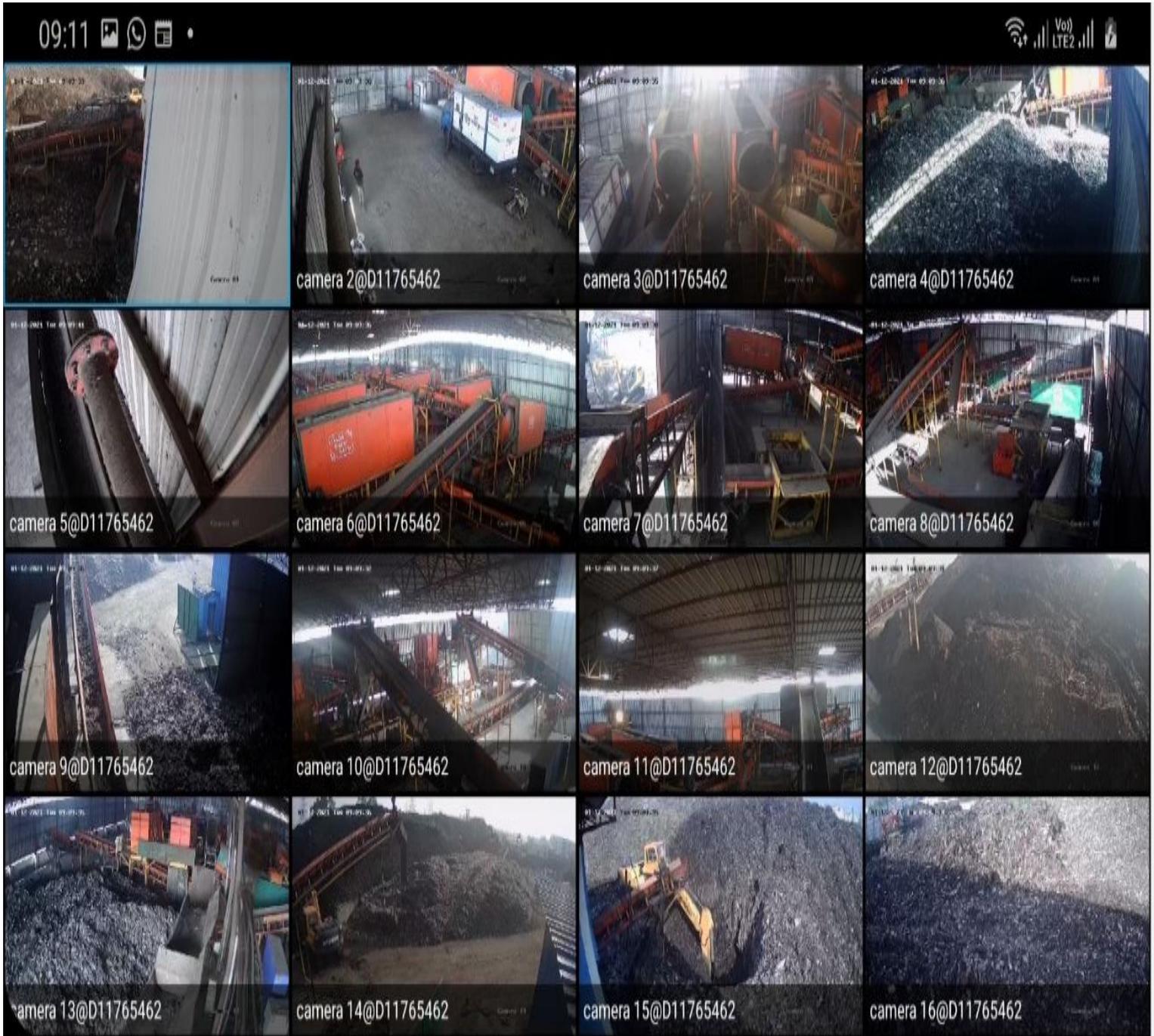
Seed Germination Test of Bio Soil



In-House Gardening with Bio-Soil



Live Monitoring



*For effective and efficient functioning of the processing plant, whole of the premise will be covered under 47 no. CCTV surveillance 24X7.

Annexure III- RDF Dispatch Details

<u>RDF Report Agency Wise for the Period of (March -24 to 31st March-25)</u>			
<u>SR. NO.</u>	<u>NAME OF CEMENT FACTORY</u>	<u>TRIP</u>	<u>DISPATCH IN QTY</u>
1	ACC LIMITED	855	28959.97
2	ULTRATECH CEMENT	860	29212.01
3	AMBUJA CEMENT	8	277.9
4	ECOPRISM JOHNSON LIMITED	624	22109.4
5	PRISM JOHNSON LIMITED	511	18953.32
6	Birla CORPORATION	142	5413.98
7	INDIAN AGRO ORGANICS	1	36.49
8	CHADHA PAPER MIL	156	5194.07
9	MA SHEETLA VENTURES LTD.	79	2598.84
10	SHAKUMBHARI PULP & PAPER MILLS LTD.	50	1552
11	Bindal Papermills Ltd	86	2827.37
12	BIOTA orient Board and paper Mill/BINDALS/SIDDESHWARI (Paper mill)	307	10587.04
13	BIOTA(TEHRI PULP MAHALAXMI)Krishna	211	6494.97
14	GARG DUPLEX & PAPER MILLS	25	763.41
15	JK Cement	442	15604.205
16	Dalmia Cement	2	76
17	SBC	45	1278.63
18	Onkar Traders(Bindal &Silverton &Tehri)	136	4649.52
19	Ultratech CEMENT-Sidhi	53	1887.74
20	UVI Infra (Mahalaxmi/Garg/Orient)	20	592.68
21	Heidelbrege	78	2523.77
22	MS Shakti Kraft	9	277.96
23	TEHRI	107	3825.24
24	Dev Priya	6	224.69
25	Meenu paper mill	43	1445.39
26	Suchi Paper Mill	3	112.78
TOTAL		5167	178874.81

RDF Disposal Sample Co-processing Certificate



Date: 05.12.2024

Certificate for material for Co-Processing

It is to certify that we have received the RDF material set out below. Collected through M/s Kanha Traders situated at 31/19, South Civil Lines, Arya Samaj Road, Muzaffarnagar – 251002 lifted from M/s Bhumi green Energy, Solid waste plant, shiveri, pankheda, lucknow, at our waste to energy plant, M/s GARG DUPLEX & PAPER MILLS (P). LTD. 9.5th KM. BHOPA ROAD, MUZAFFARNAGAR – 251001 UTTAR PRADESH. during the month of NOVEMBER – 2024. The same will be disposed off with the provisions of applicable laws and details of vehicles are given below.

Month	Type of Waste	Qty. Received (in mt)
NOVEMBER-2024	Refuse Derived fuel (RDF)	102.860 M.T.

Thanking You with regards
FOR GARG DUPLEX & PAPER MILLS (P). LTD.


 Authorised Signatory

GARG PAPER

ॐ SHRI MAHAVIRAI NAMEH ॐ

GARG DUPLEX AND PAPER MILLS PVT LTD

VEHICLES DETAILS

Challan No.	Vehicle No.	Quantity (MT.)	Ship To
2592	UP70GT-4109	28.630	GARG DUPLEX & PAPER MILLS (P) LTD.
2614	UP53ET-6325	37.330	GARG DUPLEX & PAPER MILLS (P) LTD.
2636	UP53ET-8625	36.900	GARG DUPLEX & PAPER MILLS (P) LTD.
	TOTAL	102.860	

TOTAL QUANTITY 102.860 MT.

For GARG DUPLEX & PAPER MILLS (P) LTD.



Authorised Signatory



SILVERTON PULP & PAPERS PVT. LTD.

Creating Paper To Your Needs

Date- 12-02-2025

Receipt & Processing / Utilization Certificate

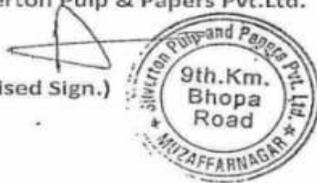
This is certified that we have received the 328.130 MT RDF (Refuse derived fuel) in the Month of January- 2025, supplied from BHUMI GREEN ENERGY Lucknow Plant Solid Waste Plant Shiveri Pankheda, Lucknow (226101). Waste plant through our supplier SBC Minerals Private Limited, 1st Floor, Plot no.170/A, Hemu Kalani Nagar, Ward 6/B, Adipur, Gandhi Dham, Kachchh, Gujarat-370205.

This material has been co-processed / stored in our waste to energy plant SILVERTON PULP & PAPERS PVT.LTD. situated at 9th km, Bhopa road Muzaffarnagar-251001

Period/Month	Type of Waste	Qty. Received (in Kg)
January-2025	Non- Recyclable Solid Waste material RDF	328.130 MT

For Silverton Pulp & Papers Pvt.Ltd.

(Authorised Sign.)



Head Office & Works :
9th Km., Bhopa Road,
Muzaffarnagar-251 001 (U.P.)
8941095985 - 88



silvertorpulp@gmail.com / info@silvertorpulp.com / wpp@silvertorpulp.com / kraft@silvertorpulp.com | www.silvertorpulp.com

CIN/FCRN : U21093UP1995PTC018048 | GSTIN : 09AABCS3407P1Z1



CRYSTAL BALAJI
INDUSTRIES PVT. LTD.

Da 6/28

Receipt & Processing / Utilization Certificate

This is certified that we have received the 565.060 MT RDF (Refuse derived fuel) in the Month of January- 2025, supplied from **BHUMI GREEN ENERGY** Lucknow Plant Solid Waste Plant Shiveri Pankheda, Lucknow (226101) waste plant through our supplier **SBC Minerals Private Limited**, 1st Floor, Plot no.170/A, Hemu Kalani Nagar, Ward 6/B, Adipur, Gandhi Dham, Kachchh, Gujarat,370205

This material has been co-processed / stored in our waste to energy plant **CRYSTAL BALAJI INDUSTRIES PVT.LTD.** 316, Patel Nagar New Mandi Muzaffarnagar 251002

Period/Month	Type of Waste	Qty. Received (in Kg)
January-2025	Non- Recyclable Solid Waste material RDF	565.060 MT

For CRYSTAL BALAJI INDUSTRIES PVT.LTD.

(Authorised Sign.)

Works :
Begrappur, Tehsil - Khatauli,
Muzaffarnagar-251203 (U.P.)

Regd. Office :
316, Patel Nagar, New Mandi,
Muzaffarnagar-251002 (U.P.)

Phone : +91-9068851700
E-mail : crystalbalajiind2020@gmail.com
GSTIN : 09AAICC9+20F12M
CIN : U15400UP2020PTC133900

ANNEXURE G

CERTIFICATE OF CO-PROCESSING

geoclean

Certificate of Co-Processing

Issued To: **BHUMI GREEN ENERGY**

Date: 31/12/2024

This is to certify that we have taken receipt of the following quantities of RDF/SCF, sent by **BHUMI GREEN ENERGY, Lucknow** for Pre and / Or Co-processing in our Cement Kiln during the period 01/12/2024 to 31/12/2024. The same would be safely and completely disposed off within 90 days of receipt and thereafter will not exist.

Waste Name: RDF /SCF
Quantity (Tons): 3230.52

Authorized Signatory
ACC Limited
Kymore Cement works



ACC KYMORE CEMENT WORKS



Certificate of Co-processing

Certificate No.: DLCW/10/24-25

This is to certify that we have successfully co-processed the following quantities of 6313.20 MT of Sorted MSW/Plastic Waste sent by M/s **Bhumi Green Energy** on behalf of M/s **Bhumi Green Energy from Shivri site (Lucknow) in Uttar Pradesh** as declared by M/s. **Bhumi Green Energy** in our Cement Kiln during the period 1st June, 2024 to 30th June, 2024. The certificate of the quantity mentioned is not issued to any other entity.

The quantities mentioned in the certificate shall not be used for availing EPR credits.

Waste Name: Sorted MSW/Plastic Waste

Quantity (Tons): 6313.20 MT

11/28

Receipt details for the period 1st June 2024 to 30th June 2024 for location Shivri site, Uttar Pradesh as declared by the client.

Collection State	City	Vehicle details	Date of Receipt	Qty
Uttar Pradesh	Shivri Lucknow	UP41A T7316	01.06.2024	30.54
Uttar Pradesh	Shivri Lucknow	UP41A T5495	01.06.2024	31.68
Uttar Pradesh	Shivri Lucknow	UP72A T4866	01.06.2024	29.33
Uttar Pradesh	Shivri Lucknow	UP63BT0407	01.06.2024	37.07
Uttar Pradesh	Shivri Lucknow	UP72A T2768	01.06.2024	34.12
Uttar Pradesh	Shivri Lucknow	UP64A T5666	01.06.2024	29.62
Uttar Pradesh	Shivri Lucknow	UP63A T1272	01.06.2024	29.90
Uttar Pradesh	Shivri Lucknow	UP64A T2246	02.06.2024	31.79
Uttar Pradesh	Shivri Lucknow	UP64A T8980	02.06.2024	32.86
Uttar Pradesh	Shivri Lucknow	UP32LN5151	02.06.2024	32.14
Uttar Pradesh	Shivri Lucknow	UP70GT2919	02.06.2024	28.89
Uttar Pradesh	Shivri Lucknow	UP53ET8625	02.06.2024	35.22
Uttar Pradesh	Shivri Lucknow	UP72A T3235	02.06.2024	34.57
Uttar Pradesh	Shivri Lucknow	UP70NT1683	02.06.2024	36.56
Uttar Pradesh	Shivri Lucknow	UP41A T4816	02.06.2024	31.85
Uttar Pradesh	Shivri Lucknow	UP70MT7183	02.06.2024	39.54
Uttar Pradesh	Shivri Lucknow	UP72A T3202	02.06.2024	34.68
Uttar Pradesh	Shivri Lucknow	UP70MT5684	02.06.2024	35.79
Uttar Pradesh	Shivri Lucknow	RJ42GA3336	03.06.2024	40.71
Uttar Pradesh	Shivri Lucknow	UP70NT5067	03.06.2024	34.35
Uttar Pradesh	Shivri Lucknow	UP70FT4674	03.06.2024	30.64



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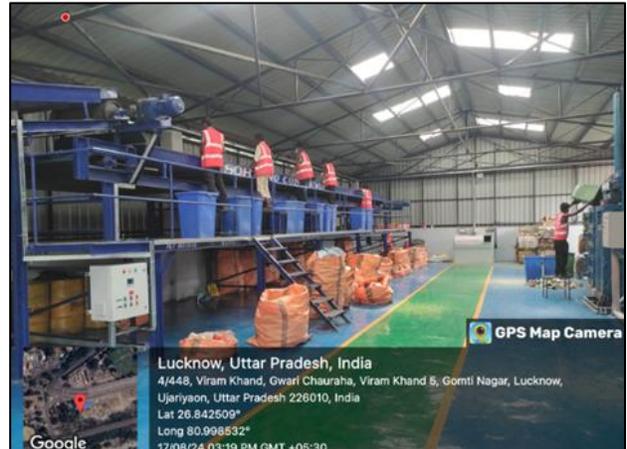
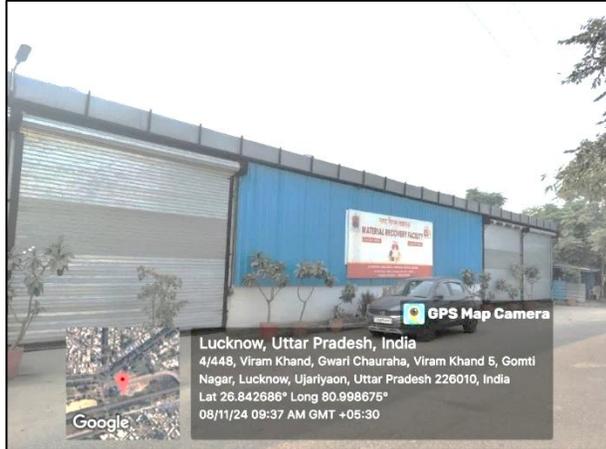
Registered Office : 'B' Wing, Ahura Centre, 2nd Floor, Mahakali Caves Road, Andheri (East), Mumbai - 400 093

T : +91 22 6691 7800 | CIN : L26940MH2000PLC12842

Annexure IV- Material Recovery Facilities

The Lucknow Municipal Corporation (LMC) has nine operational Material Recovery Facilities (MRFs), with one additional MRF currently under construction, bringing the total number of MRFs to ten. The management of all MRFs falls under the scope of work of the door-to-door waste collecting and transporting companies, namely M/S Lucknow Swacchata Abhiyan Pvt. Ltd. and M/S Lion Enviro Lucknow Pvt. Ltd

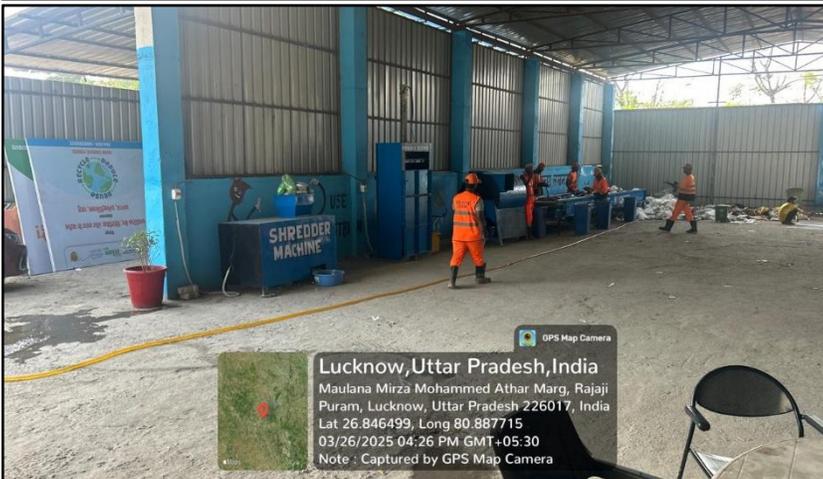
Gwari, Zone-4



406 Jankipuram, Zone-3



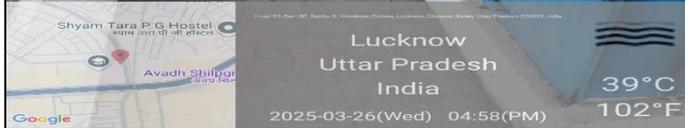
Alitrang, Zone 2



Kesari Kheda, Zone 5



VRINDAVAN SECTOR - 8C, Zone-8



Annexure V- Use non-recyclable plastic waste (5 to 6%-part replacement with bitumen) in road construction

The Chief Minister's Green Road Infrastructure Development Urban (CM GRID) Scheme promotes sustainable road construction by incorporating non-recyclable plastic waste into the asphalt mix. At a state-level committee meeting on May 3, 2024, it was decided that 6-10% of bitumen in road construction projects should be replaced with non-recyclable plastic waste. To facilitate this, shredder machines are being installed in each Material Recovery Facility (MRF) center of the Lucknow Municipal Corporation (LMC). As an initial step, shredder machines have already been installed by LMC at various locations.

In compliance with these guidelines, the Lucknow Development Authority (LDA) has successfully used plastic waste to replace 8% of bitumen in the top surfacing (SDBC) of three roads in Gomti Nagar Vistar:

- **Sector 7:** 327 meters long, 12 meters wide
- **Basant Kunj:** 700 meters long, 7 meters wide
- **Gomti Nagar Phase II:** 535 meters long, 10.70 meters wide

These three road construction projects utilized approximately 6.36 tons of plastic waste.



Non-recyclable plastic used in Road construction

Annexure XVI-Single Use Plastic Penalties

In compliance with the Plastic Waste Management Rules of 2016 (Rule 14(2)), Lucknow Municipal Corporation has intensified its inspections targeting retailers and street vendors using non-compliant plastic carry bags, multilayered packaging, or similar items lacking proper manufacturing labels or markings. As a result, penalties totaling **Rs. 17,38,700** have been imposed for the seizure of such non-compliant plastic materials from April 2024 to March 2025.

Despite fines, seizures, city struggles to curb plastic, polythene

Animesh Mishra
animesh.mishra@partner.htlive.com

LUCKNOW: Though the Lucknow Municipal Corporation (LMC) has collected fines totalling about ₹12.22 lakh and seized 12,002 kg of banned single-use plastic across its eight zones, the city continues to struggle with rampant polythene use in the state capital.

The fine amount was collected between April this year and November 26.

The LMC's weekly enforcement drives, held every second day of the week, are yet to make an impact as vendors and residents openly flout the ban imposed by the ministry of environment. Low quality polythene remains widely available.

The environmental and health consequences are alarming. Plastic is the leading cause of clogged drains and nallahs, exacerbating sanitation issues in the city.

Additionally, vendors often use it to wrap food items, which endangers human health and poses severe risks to animals that inadvertently consume it.

Meanwhile, residents from various areas of the city have expressed concern about the inadequacy of LMC's approach.

Mrityunjay Pandey, emphasised the need to address the root of the problem by targeting the transportation and manufacture of polythene. He suggested that stricter laws and higher



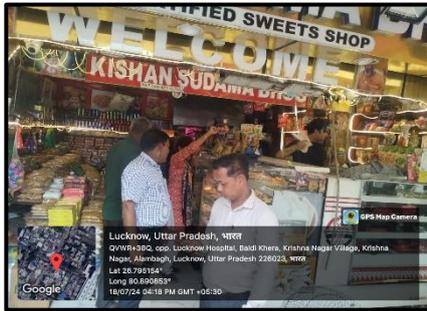
VENDORS OFTEN USE IT TO WRAP FOOD ITEMS, WHICH ENDANGERS HUMAN HEALTH

fines could act as stronger deterrents.

According to a resident Vikas, the focus of LMC's enforcement drives, limited to small vendors and overlooking larger supply chains that facilitate the circulation of banned polythene, needs to change completely for its drives to have any effect.

Responding to these concerns, Sanjeev Pradhan, LMC's environment officer, stated that zonal in-charges have been directed to intensify the enforcement of the ban. He said the ban is imposed on single use plastic as it cannot be recycled which also creates threats to the environment, he said.

Another LMC official said that addressing polythene usage requires not only stricter enforcement but also collaboration between authorities, businesses, and the public.



प्रेस नोट

नगर आयुक्त महोदय द्वारा दिये गये निर्देशों के अनुपालन में आज दिनांक- 11.11.2024 को जोन-05 क्षेत्रान्तर्गत **आलमबाग कानपुर रोड** जन जागरूकता अभियान चलाते हुए गन्दगी करने वाले एवं प्रतिबन्धित पॉलीथिन का प्रयोग करने वाले दुकानदारों को गन्दगी न फैलाने एवं प्रतिबन्धित पॉलीथिन का प्रयोग न किये जाने हेतु जागरूक किया गया। साथ ही अभियान के दौरान गन्दगी करने वाले व्यक्तियों पर **04 चालान व ₹0-400.00** का जुर्माना एवं प्रतिबन्धित पॉलीथिन का प्रयोग कर रहे दुकानदारों पर **3 चालान व ₹0-5000.00** इस प्रकार **कुल 7 चालान व ₹0-5400.00 का जुर्माना** वसूल किया गया एवं लगभग **1.8 कि०ग्रा०** प्रतिबन्धित पॉलीथिन जब्त की गई, अभियान के दौरान की जी०पी०एस० फोटोग्राफ निम्नवत :-

**जोनल सेनेटरी अधिकारी, जोन-5
नगर निगम लखनऊ।**

Annexure VII-Single Use Plastic By Products


Shri Shyam Packaging
Plastic waste management company

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Ref.....

Date.....

प्रेषक,

श्री श्याम पैकेजिंग
117/30 ए, सर्वोदय नगर,
कानपुर नगर, उ० प्र०।

सेवा में,

पर्यावरण अभियन्ता,
नगर निगम, लखनऊ।

विषय- नगर निगम सीमा क्षेत्र में जथा किये गये सिंगल यूज प्लास्टिक के निस्तारण के सम्बन्ध में।

महादेय,

सादर अवगत कराना है कि आपके पत्र सं० डी/748/4030/24 दिनांक- 27/11/24 का अपलोकन करने का कष्ट करे। जिसमें आप द्वारा हमारी संस्था श्री श्याम पैकेजिंग को नगर निगम सीमा क्षेत्र में जथा किये गये सिंगल यूज प्लास्टिक के निस्तारण हेतु अनुमति प्रदान की गयी थी।

उपर्युक्त के क्रम में अवगत कराना है कि हमारी संस्था श्री श्याम पैकेजिंग द्वारा नगर निगम, लखनऊ से 12385 किलो की सिंगल यूज प्लास्टिक के निस्तारण हेतु माल उठा कर उसका निस्तारण किया गया, जिससे कुर्सी, मजे, ट्री प्लान्टर, स्वींग डस्टबीन आदि वस्तुओं का निर्माण किया गया है, जिसमें से 3380 किलो के प्रदाथं नगर निगम, लखनऊ में डिलीवर्ड कर दिये गये हैं।

Zone	Invoice No.	Date	Qty.	Vehicle No.	Material (50%)	Delivered date	Delivered Qty.
Zone - 4 Gwari	2	11/12/2024	1550	UP32VN1158	775	11/12/2024	475
Zone - 2 Aish bagh	3	20/12/24	365	UP32NN7097	182.5		-
Zone - 5 Chandan Nagar	4	23/12/24	1344	UP32JN9651	672		-
Zone - 5 Chandan Nagar	5	23/12/24	1376	UP32VN1158	688		-
Zone - 7 Indira Nagar	6	31/12/24	1400	UP32VN1158	700		-
Zone - 7 Indira Nagar	7	3/1/2025	1750	UP78GT9456	875	3/1/2025	605
Zone - 8 Bangla Bazar	8	7/1/2025	1375	UP32NN7097	687.5	10/2/2025	1080

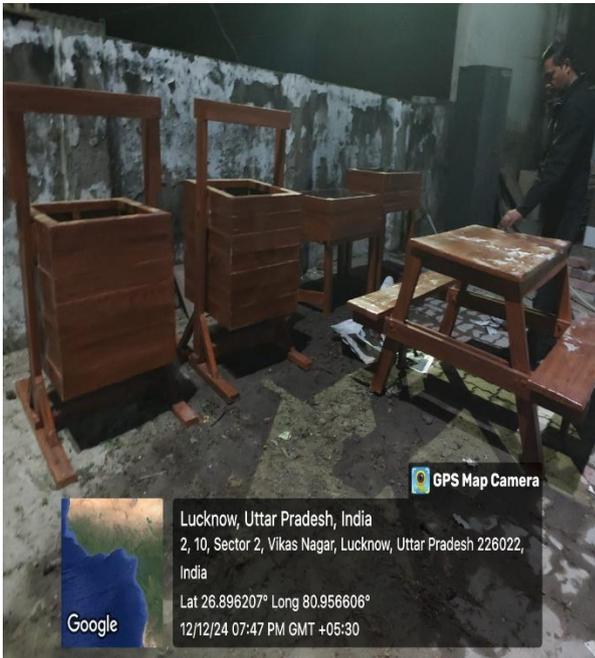
Corporate Office : 117/30 A, Sarvodaya Nagar, Kanpur - 208005 & Factory : D1, D2, D3, Radio Site 2, Kanpur Dehat, Uttar Pradesh - 208101

Zone - 8 Bangla Bazar	9	7/1/2025	1600	UP35AT6582	800		
Zone - 8 Bangla Bazar	10	7/1/2025	1625	UP32VN1158	812.5	13/01/25	1220
Zone - 8 Bangla Bazar	11	13/01/25	1875	UP77AT6137	937.5		-
			14260		7130		3380

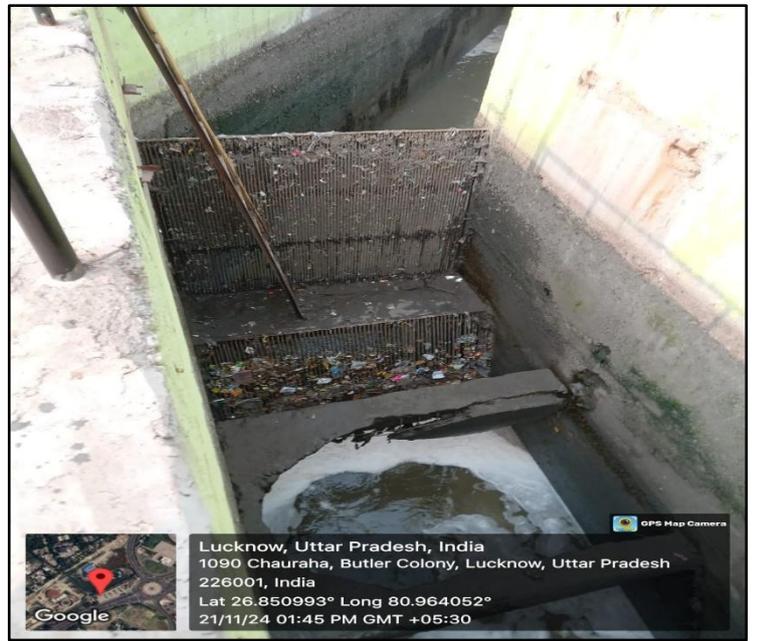
कृपया उपर्युक्त से अवगत होने का कष्ट करें।

For Shree Shyam Packaging
Shree
 Authorized Signatory

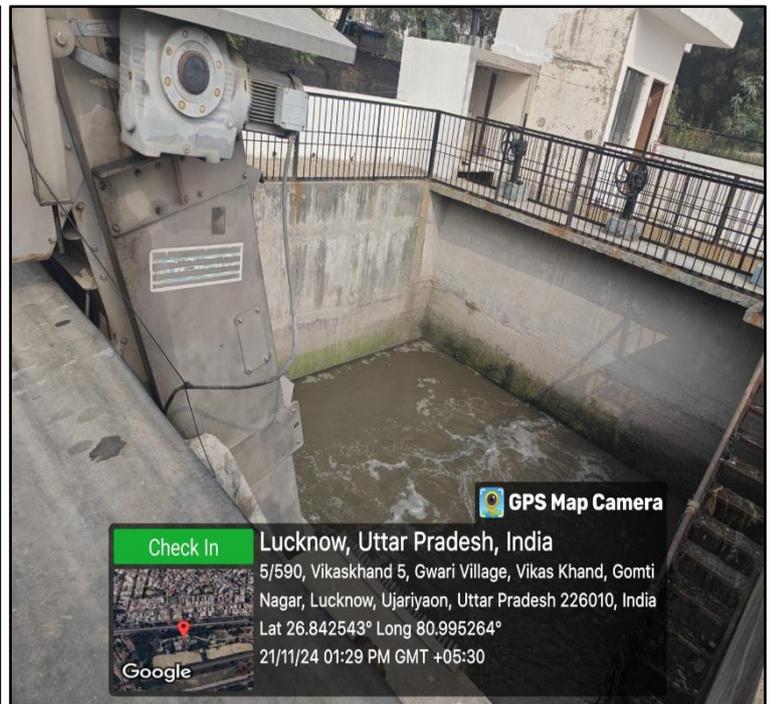
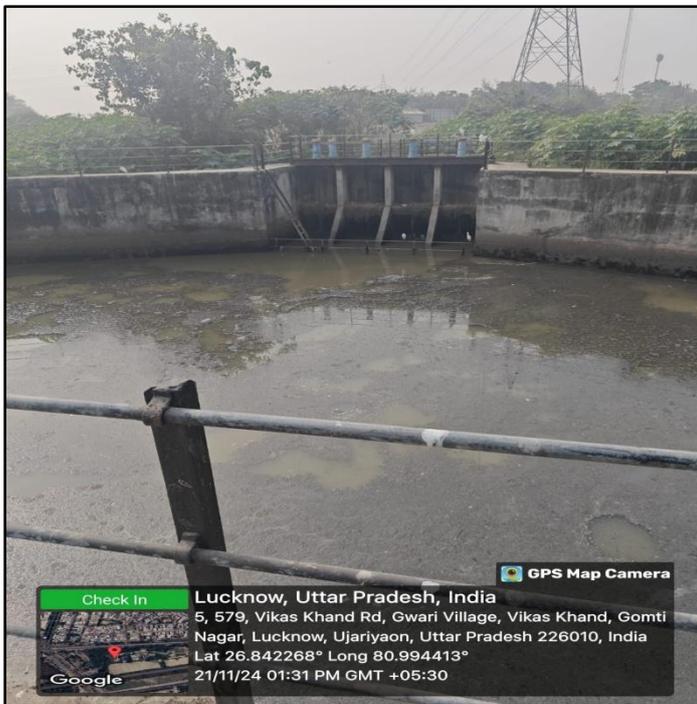
(मि० श्री श्याम पैकेजिंग)
 117/130 ए सर्वोदय नगर,
 कानपुर नगर, उ०प्र०।



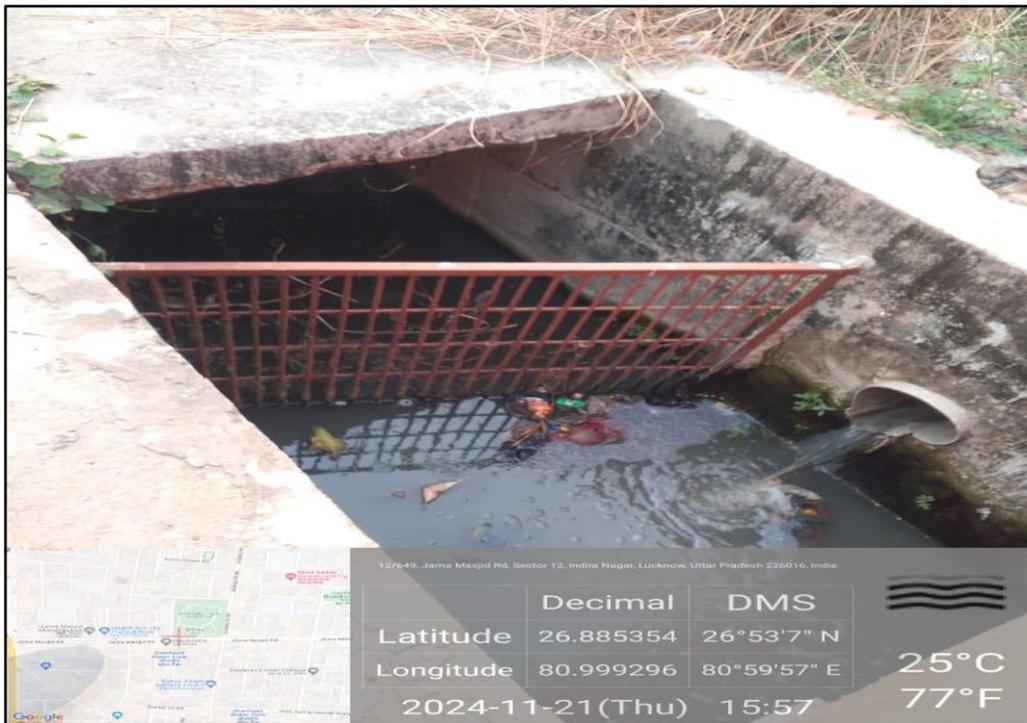
Annexure VIII-Iron Mesh For Plastic Waste Collection in Drains



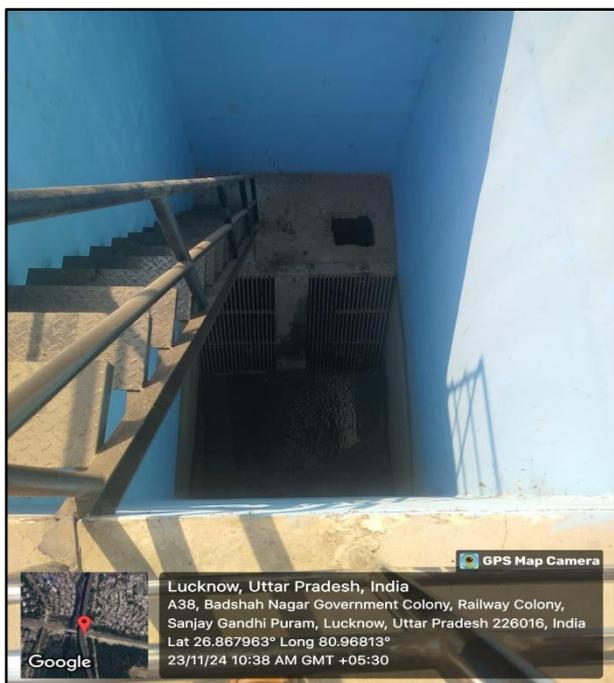
Jiamau, Pumping Station Mesh Filtration



Gwari, Pumping Station Mesh Filtration



Indra Nagar Near Jama Masjid Road, Nala Mesh Filtration



Badshah Nagar, Pumping Station Mesh Filtration