# कार्यालय नगर पालिक निगम, बिलासपुर (छ.ग.)

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स्वच्छ भारत

कमांक ...06.../न.पा.नि./यो.प्र./2024–25 बिलासपुर दिनाँक 21/04/2025

To,

The Member Secretary,
Chhattisgarh Environment Conservation Board.
Raipur, Chhattisgarh

Sub: Submission of Environment Statement From V for FY 2023-24

Dear Sir,

We, Municipal Corporation Bilaspur, herewith submitting the Environmental Statement (Form V) For FY 2023-24 as per the Consent to operate condition and also provision of the environmental protection act 1986.

Thanking You.
You're sincerely
For Municipal Corporation Bilaspur

अपर आयुक्त
नगर पालिक निगम
बिलासपुर (छ.ग.)

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नगर पालिक निगम
बिलासपुर (छ.ग.)

CC → RO, CECB, C.G

छत्तीसगढ़ पर्यावरण संरक्षण मंडल कार्यालय बिलासपुर (छ.ग.) Rec. Dt. 22/04/2025

# [Form-V]

(See Rule- 14)

Environmental Statement for the Financial Year Ending the 31st March 2024

PART -A

| | | |
|---|---|---|
| i. | Name & Address of the Industrial unit/Project | Delhi MSW Solutions Ltd.- MSW process and disposal plant (Composting, RDF& Sanitary Landfill facility) Plot No. 1052/1359, Village- Kacchar, Sendri, Amtararoad, Bilaspur, Chhattisgarh-495009 |
| ii. | Name & address of the owner/occupier of the industry operation or process | The Commissioner,<br>Municipal Corporation Bilaspur<br>VikashBhavan, Nehru Chowk, Bilaspur<br>Chhattisgarh. 4950101 |
| iii. | Industry category primary – (STC Code)<br>Secondary- (SIC Code) | Red Category |
| iv. | Production Capacity Units | 150 TPD Composting Plant,<br>100 TPD RDF Plant Processing & Disposal Plant |
| | Year of Establishment<br>Date of the last environmental statement submitted | 2019<br>NA |

**Water and raw Material consumption: -**

**1. Water Consumption $M^3$/ Day**

| S. NO | Description | Water Consumption Day $M^3$/ Day |
|---|---|---|
| 1. | Process- Treated Leachate (Using for windrow Process and Landfill Soil Compaction) | 10 |
| 2. | Cooling | Nil |
| 3. | Domestic | 5 |
| 4. | Gardening | 5 |

| Name of the Products | Process water consumption in M3 per ton of the product output | |
|---|---|---|
| | During the previous Financial Year in MT | During the Current Financial Year in MT |
| Compost | 0.90 | 0.82 |

**2. Raw Material Corn position:**

| Name of Raw Materials | Name of Products | Consumption of raw Material per Unit | |
|---|---|---|---|
| | | During the previous Financial Year | During the current Financial Year |
| Solid Waste | | 74963 | 80377.77 |
| | Compost | 4055 | 3101.97 |

Part -C

Pollution discharged to environmental/ unit of output

( Parameters as specified in the consent issued )

| Pollutants | Quantity of Pollutants Discharged (mass/day) | Concentration of pollutants in discharge (mass/volume) | Percentage of variation from prescribed standards with reason |
|---|---|---|---|
| Water | Plant follows the zero liquid discharge concepts and hence the generated waste water is treated and reused in the plant itself. MEE Plant has been installed for treatment of waste water. | | |
| Air | As per annexure -I AAQ Monitoring reports | | |

Part-D

Hazardous Waste

(As specification under Hazardous wastes/management & handling rules, 1989)

| Hazardous Waste | Total Quantity in (Kg) | |
|---|---|---|
| | During the previous Financial year | During the Current Financial year |
| a. From process | Nil | Nil |
| b. From pollution Control Facility | Nil | Nil |

Part -E

Solid Wastes

| Solid waste generation | | | Total Quantity in Kg | |
|---|---|---|---|---|
| | | | During the previous Financial Year | During the current Financial Year |
| a. | | From process | 14522 | 14498.24 |
| b. | | From pollution Control Facility | | Nil |
| c. | 1. | Quantity Recycled or reutilized within the units | | |
| | 2. | Sold | | Nil |
| | 3. | Disposal | 14522 | 14498.24 (Residual inters are being disposed in scientific landfill |

**Note:** Inters generated during Municipal Solid Waste Processing is dispose in scientific landfill.

## Part-F

**Please specify the characterization (in terms of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories.**

MSW is processed to segregate RDF, recoverable, then converting other degradable material to compost and during the process, the residual inert material will be separated and finally disposed of scientifically in secured landfill in scientific manner as per SWM rules 2016. There are four landfill cells proposed and currently cell B of area 10117.17 Sq. Mt is in operation

## Part-G

**Impact of the pollution abatement measure taken on conversation of natural resources & on the cost of production.**

- Facility itself is a process designed for environmental safeguard for treatment and disposal of municipal solid waste.
- Extensive tree plantation inside the premises, which is still continuing till also as a part of green belt development, which Will control the impact of Air pollution and optimize the ambient temperature of surrounding area.
- We have constructed the rain water collecting ponds in our plant premises to collect surface run off water from roof top and roads and are utilizing in green belt development.
- Treated waste water is also utilized for horticulture and dust suppression, thus minimizing the freshwater consumption.

## Part-H

**Additional measure /investment proposal for environmental protection including abatement of pollution prevention of pollution.**

- For better control on fugitive emission, water spraying is being done on unpaved internal roads except during rainy season.
- Adoption of good house- keeping practices, in which proper systematic stacking & movement of construction materials, packing material etc. has been implemented.
- All the internal roads have been made pucca in order to reduce dust.
- Leachate Treatment Plant with MEE has been installed to treat waste water generating from processing of municipal solid waste.

## Annexure-I

**AAQ Monitoring Results:**

**Location-I near Main gate Area:**

| S. No | Parameters | Sep-23 | Dec-23 | March-24 | NAAQM Standards |
|---|---|---|---|---|---|
| 1 | PM 10 (µg/m3) | 78 | 92 | 91 | <100 |
| 2 | PM 2.5 (µg/m3) | 34 | 53 | 50 | <60 |
| 3 | S02 (µg/m3) | 12.4 | 14.7 | 12.3 | <80 |
| 4 | CO (µg/m3) | 812 | 1007 | 642 | <2000 |
| 5 | NH3 (µg/m3) | 29 | 34.4 | 30.0 | <400 |
| 6 | CH4 (µg/m3) | <0.5 | <0.5 | <0.5 | - - - |

**Location -2 near LTP Plant:**

| S. No | Parameters | Sep-23 | Dec-23 | March-24 | NAAQM Standards |
|---|---|---|---|---|---|
| 1 | PM 10 (µg/m3) | 63 | 78 | 80 | < 100 |
| 2 | PM 2.5 (µg/m3) | 30 | 43 | 43 | <60 |
| 3 | S02 (µg/m3) | 9.2 | 10.6 | 13.9 | <80 |
| 4 | CO (µg/m3) | 458 | 744 | 812 | <2000 |
| 5 | NH3 (µg/m3) | 16 | 21.4 | 50.4 | <400 |
| 6 | CH4 (µg/m3) | <0.5 | <0.5 | <0.5 | - - - |

**Location-3 near 75 MM Trommel:**

| S. No | Parameters | Sep-23 | Dec-23 | March-24 | NAAQM Standards |
|---|---|---|---|---|---|
| 1 | PM 10 (µg/m3) | 70 | 82 | 85 | <100 |
| 2 | PM 2.5 (µg/m3) | 36 | 49 | 55 | <60 |
| 3 | SO2 (µg/m3) | 9.8 | 10.6 | 16.9 | <80 |
| 4 | CO (µg/m3) | 515 | 801 | 927 | <2000 |
| 5 | NH3 (µg/m3) | 18 | 21.5 | 47.1 | <400 |
| 6 | CH4 (µg/m3) | <0.5 | <0.5 | <0.5 | - - - |