

Ref: KWMP/KSPCB/2409-38

Date: 19<sup>th</sup> September, 2024

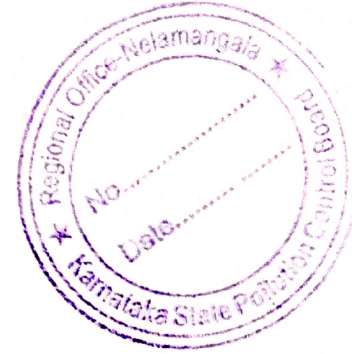
To

The Member Secretary

Karnataka State Pollution Control Board

Parisara Bhavan, 4<sup>th</sup> & 5<sup>th</sup> Floor, # 49, Church Street

Bengaluru – 560 001, Karnataka



Sir,

**Sub: Submission of Form – V (Environmental Statement) – Reg.**

We are herewith submitting the Form – V (Environmental Statement) for the financial year ending 31<sup>st</sup> March, 2024.

This is for your kind information and necessary records.

Thanking You

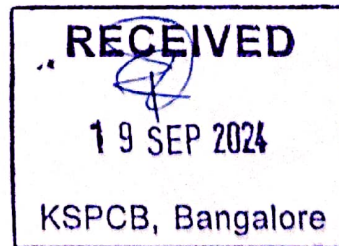
Yours faithfully

For Karnataka Waste Management Project,

(A Division of Re Sustainability Ltd.)



Authorized Signatory



Re Sustainability Limited

CIN No. U74140TG1994PLC018833

Registered Office:

Level 11B, Aurobindo Galaxy,  
Hyderabad Knowledge City, Hitech City Road,  
Hyderabad - 500081,  
Telangana.

Site Address:

Karnataka Waste Management Project  
Opposite of OM Logistics  
NH - 207, Near Pemmanahalli  
Dabaspeta, Nelamangala Taluk  
Bengaluru Rural District - 562111

Regional Office:

Ramky House, Site No. 25-30, 2nd Cross,  
Raghavendranagar, Hennur Ring Road,  
Kalyan Nagar (Post), Bengaluru - 560043,  
Karnataka.

T: +91 70220 48893

E: nitishkumar.singh@resustainability.com

Ref: KWMP/KSPCB/2409-39

Date: 19<sup>th</sup> September, 2024

To

Environmental Officer  
Regional Office – Nelamangala  
Karnataka State Pollution Control Board  
Urban Eco Park, 1<sup>st</sup> Floor,  
100 Ft. Road, 3<sup>rd</sup> phase, Peenya Industrial Area  
Bangalore – 58

Dear Sir,

**Sub: Submission of Form V (environmental Audit Statement) – Reg.**

We are herewith submitting the Form – V (Environmental Statement) for the financial year ending 31<sup>st</sup> March, 2024.

This is for your kind information and necessary records.

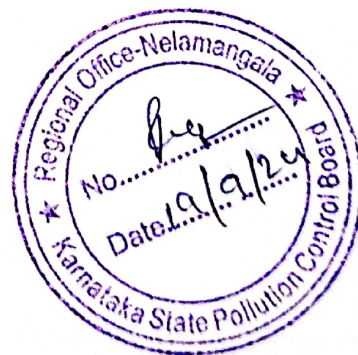
Thanking You

Yours faithfully

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## ENVIRONMENTAL STATEMENT FORM – V

(See rule 14)

**Environmental Statement for the financial year ending with 31<sup>st</sup> March, 2024**

### PART A

- (i) Name & address of the owner/ occupier of the industry operation or process :Karnataka Waste Management Project  
(A Divn. of Re Sustainability Ltd.)  
TSDF: KIADB, Village Pemmanahalli,  
Thimanayakahalli, Dobaspet,  
Tq. – Nelamangala, Dist – Bangalore Rural,  
Karnataka.
- (ii) Industry Category Large Red Category.  
Primary (STC Code) Landfillable and Incinerable Hazardous Waste  
Secondary (STC Code) Treatment, Storage Disposal Facility
- (iii) Production Capacity -Units Disposal Capacity of Landfillable Hazardous  
Waste: 40,000 MT / Annum (Stabilization &  
Direct Landfillable hazardous waste).  
Disposal of Incinerable Hazardous Wastes –  
12528 MT/Annum
- (iv) Year of Establishment Operating from 21<sup>st</sup> June, 2008 after getting  
Consent for Operation and Authorisation for  
Handling Hazardous Waste.
- (v) Date of the last Environmental statement submitted 29/09/2023.

### PART-B

#### Water and Raw Material Consumption:

i. Water consumption in m<sup>3</sup>/day

Process & container washings : 2 m<sup>3</sup>/day  
Cooling : Nil  
Domestic & Gardening : 5.5 m<sup>3</sup>/day, also using harvested rain water for gardening

| Name of products | Process water consumption per unit of products                                                                                                                                                                                      |                                                                                                                                                                                                                                    |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | During the previous Financial year (2022-2023)                                                                                                                                                                                      | During the Current Financial year (2023-2024)                                                                                                                                                                                      |
|                  | 0.1 KL Per Metric Ton of Hazardous Waste stabilization (Only stabilization treatment required wastes)<br>0.2KL/day average in Stabilization scrubber system<br>0.5 KL/day in Incinerator Scrubber<br>0.3 KL/day for Cooling purpose | 0.1KL Per Metric Ton of Hazardous Waste stabilization (Only stabilization treatment required wastes)<br>0.2KL/day average in Stabilization scrubber system<br>0.5 KL/day in Incinerator Scrubber<br>0.3 KL/day for Cooling purpose |

ii. *Raw material consumption*

| Name of Raw materials | Name of Products   | Consumption of raw material per unit of output      |                                                     |
|-----------------------|--------------------|-----------------------------------------------------|-----------------------------------------------------|
|                       |                    | During the previous Financial year in (2022-2023)   | During the Current Financial year (2023-2024)       |
| Lime                  | Stabilized waste   | 41 kg/MT (Only lime treatment required waste)       | 39.2 kg/MT (Only lime treatment required waste)     |
| Cement                | Stabilized waste   | 29.5 kg/MT (Only Cement treatment required waste)   | 30.1 kg/MT (Only Cement treatment required waste)   |
| Fly Ash               | Stabilized waste   | 184.5 kg/MT (Only Fly ash treatment required waste) | 182.6 kg/MT (Only Fly ash treatment required waste) |
| Diesel                | Incineration Plant | 57.5 litres /MT                                     | 57.9 litres /MT                                     |
| Lime                  | Incineration Plant | 8.1 kg/MT                                           | 7.9 kg/MT                                           |
| Activated Carbon      | Incineration Plant | 4.0 kg/MT                                           | 4.0 kg/MT                                           |
| Caustic               | Incineration Plant | 10.4 kg/MT                                          | 10.4 kg/MT                                          |



**PART-C****Pollution discharged to environment / unit of output***(Parameter as specified in the consent issued)*

| Pollutants                                                                         | Quantity of pollutants discharged (mass/day) | Concentration of Pollutants discharged (mass/volume) | Percentage of variation from Prescribed standards with reasons |
|------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|
| (a) Water                                                                          | No Discharge                                 | No Discharge                                         | NA                                                             |
| (b) Air                                                                            | Please refer Annexure - I                    |                                                      |                                                                |
| Note: We are submitting Environment Monitoring Reports to R.O. KSPCB, every month. |                                              |                                                      |                                                                |

**PART-D****HAZARDOUS WASTES***(as specified under Hazardous Wastes (Management & Handling Rules, 1989) .*

| Hazardous Wastes                                     | Total Quantity (kg/litres) generated  |                                               |
|------------------------------------------------------|---------------------------------------|-----------------------------------------------|
|                                                      | During the Financial year (2022-2023) | During the Current Financial year (2023-2024) |
| 1 From process                                       |                                       |                                               |
| 5.1 - Used Oil                                       | 1100 litres                           | 800 litres                                    |
| 5.2 – Waste residue containing Oil                   | 220 kg                                | 230 kg                                        |
| 5.2 Oil contaminated filters                         | 08 numbers                            | 06 numbers                                    |
| 5.2. Used Bags (contaminated with chemicals and oil) | 650 kg                                | 620 kg                                        |
| 5.2. Contaminated hand gloves, gum boots etc.,       | 589 Pairs                             | 582 Pairs                                     |
| 33.1 Discarded containers                            | 24.16 MT                              | 17.88 MT                                      |
| <b>2. From Pollution Control facilities</b>          |                                       |                                               |
| Cyclone dust                                         | 21.80 MT                              | 17.9 MT                                       |
| Bag filter dust                                      | 14.85 MT                              | 9.80 MT                                       |

### PART-E

#### SOLID WASTES:

| Solid Wastes                                        | Total quantity (kg)                            |                                               |
|-----------------------------------------------------|------------------------------------------------|-----------------------------------------------|
|                                                     | During the Previous Financial year (2022-2023) | During the Current Financial year (2023-2024) |
| a) From process                                     | Nil                                            | Nil                                           |
| (b) From pollution Control facility                 | Nil                                            | Nil                                           |
| (c) Quantity recycled or reutilised within the unit | Nil                                            | Nil                                           |

### PART-F

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

This is a Common Hazardous waste Treatment, Storage and Disposal Facility catering to hazardous waste disposal needs of the industries. This facility is handling waste with authorization to handle 40,000 MT/Annum of landfillable hazardous waste and Incinerable Hazardous Wastes – 12528 MT/Annum

- a) **Used Oil:** We collected **795 litres** of used oil in leak proof containers and send to KSPCB authorized used oil recycler – Arun Industries.
- b) **Waste residue containing Oil:** **230 kg** was collected in separate containers and disposed in our in-house incinerator
- c) **Category 5.2. Oil Contaminated filters:** **6 Nos.** disposed at our in-house Incinerator facility
- d) **Used Bags (contaminated with chemicals and oil):** **620 kg** disposed at in-house Ramky Incinerator facility
- e) **Contaminated hand gloves, gum boots etc.:** **583 Pairs** collected in separate containers and disposed at in-house Ramky Incinerator facility
- f) **Discarded containers:** **19.46 MT** was collected and sent Ramky Reclamation & Recycling Ltd. For recycling.
- g) **Land disposable hazardous waste** collected **58901.741 MT** from other industries for treatment and disposal into landfill: We collect from generators, store in a secured manner, and disposed **58940.641 MT** into the landfill during the financial year 2023-24.
- h) **Incinerable Hazardous Waste:** **1981.341 MT** Incinerable Industrial Hazardous Waste and **3320.58 MT** of Bio Medical Waste was collected and incinerated.



## **PART-G**

***Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production***

**No negative impacts.**

The TSDF itself is a pollution control facility for industrial hazardous wastes. During 2023-24 collected **58901.741** MT from other industries for treatment and disposal into landfill: We collect from generators, store in a secured manner, and disposed **58940.641** MT into the landfill during the financial year 2023-24 **1981.341** MT Incinerable Hazardous Waste was collected and incinerated.

The Dobbaspeta Hazardous Waste Treatment, Storage, Disposal Facility has the unique pollution abatement system to take care of the environment and natural resources as per the norms and specifications by CPCB and KSPCB.

- a) We are doing rain water harvesting by collecting the rain water in storm water pond and using it for plantation and other construction related activities very effectively.
- b) Collecting the surface runoff of rain water in Quarantine tanks and spraying in landfill dust pollution control and using for plantation.
- c) We are reducing the natural water consumption by using the Leachate generated in landfill for stabilization of Hazardous Wastes during Stabilization

## **PART-H**

**Additional measures / investment proposal for environmental protection including abatement of pollution**

For dust pollution control, we have completed concreting work on internal roads. Cement road laying work completed from Security gate to Waste storage sheds and Incinerator area.

## **PART - I**

### **MISCELLANEOUS**

***Any other particulars in respect of environmental protection and abatement of pollution***

Total of about 83,000 saplings have been planted in and periphery of the TSDF site under green belt development programme. This financial year (2024-25) we are executing the plantation of

3500 saplings. A comprehensive environment monitoring programme is being followed to monitor the soil, Air, Surface water and ground water periodically. Reports are being submitted regularly to the State Pollution Control Boards and other concerned departments.

Periodical Environment, Health & Safety trainings have been planned to all the workers.

TSD facility has been certified for the following

- ISO 14001 – 2015 (Environment Management System)
- ISO 9001 – 2015 (Quality Management System)
- ISO 45001 – 2018 (Health & Safety Management System)
- ISO 17025 – 2017 (NABL accreditation of Laboratory)
- MoEF Approval (Ministry of Environment and Forest)

In addition to this we are conducting Annual Health Check-up every year. No impact has been observed.



### TEST REPORT

|                                    |                                         |
|------------------------------------|-----------------------------------------|
| 1. Name of the Industry            | : Karnataka Waste Management Project.   |
| 2. Stack Id                        | : KWMP/Incin/Stack/01                   |
| 3. Stack Attached to               | : Incinerator                           |
| 4. Sample Collected by             | : KWMP- Laboratory                      |
| 5. Date of Collection              | : 20.08.2024                            |
| 6. Particulars of Sample Collected | : PM, SO <sub>2</sub> , NO <sub>x</sub> |
| 7. Date of Sample Received         | : 20.08.2024                            |
| 8. Sample Register Number          | : KWMP-Incin Stack-2425-08-01           |
| 9. Report Date                     | : 23.08.2024                            |

#### General Details

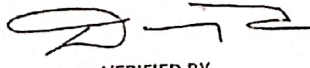
|                              |                                       |
|------------------------------|---------------------------------------|
| Date & Time of Monitoring    | 20.08.2024@12.20                      |
| Stack Diameter (m)           | 1.0                                   |
| Fuel Used                    | Low Sulphur High Speed Diesel (LSHSD) |
| Ambient Air Temperature (°C) | 27.2                                  |
| Stack Gas Temperature (°C)   | 106                                   |
| Stack Gas Velocity (m/s)     | 11.42                                 |
| Height (m)                   | 35                                    |
| Discharge Rate (m3/hr.)      | 21065.8                               |

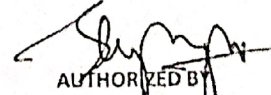
#### Results

| Parameters                            | Method                | Unit   | Result | Standard |
|---------------------------------------|-----------------------|--------|--------|----------|
| Particulate Matter (PM)               | IS:11255(Part-1)-1985 | mg/Nm3 | 27.62  | 50       |
| Sulphur Dioxide (SO <sub>2</sub> )    | IS:11255(Part-2)-1985 | mg/Nm3 | 53.16  | 200      |
| Oxides of Nitrogen (NO <sub>2</sub> ) | IS:11255(Part-7)-2005 | mg/Nm3 | 105.48 | 400      |

|           |                                                                     |
|-----------|---------------------------------------------------------------------|
| Inference | As per KSPCB Standards :Results are within the standards prescribed |
|-----------|---------------------------------------------------------------------|

  
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AUTHORIZED BY

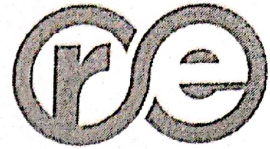
Page 1 of 1

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Hyderabad Knowledge City, Hitech City Road,  
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Karnataka  
E: nitishkumar.singh@resustainability.com  
T: +91 70220 48893



Sustainability

## TEST REPORT

1. Name of the Industry : Karnataka Waste Management Project.
2. Stack Id : KWMP/DG62.5KVA/Stack/01
3. Stack Attached to : 62.5 KVA DG Sets
4. Sample Collected by : KWMP- Laboratory
5. Date of Collection : 05.08.2024
6. Particulars of Sample Collected : PM, SO<sub>2</sub>, NO<sub>x</sub>
7. Date of Sample Received : 05.08.2024
8. Sample Register Number : KWMP-62.5KVA-DG Stack-2024-08-01
9. Report Number : KWMP/62.5KVA/DG Stack/2024-08/01
10. Report Date : 07.08.2024

### General Details

|                              |                                       |
|------------------------------|---------------------------------------|
| Date & Time of Monitoring    | 05.08.2024@13.25                      |
| Stack Diameter (m)           | 0.1016                                |
| Fuel Used                    | Low Sulphur High Speed Diesel (LSHSD) |
| Ambient Air Temperature (°C) | 27.1                                  |
| Stack Gas Temperature (°C)   | 106                                   |
| Stack Gas Velocity (m/s)     | 8.7                                   |
| Height (m)                   | 8                                     |
| Discharge Rate (m3/hr.)      | 191.23                                |

| S.No | Test Parameters                       | Test Method           | Unit   | Result | Standard |
|------|---------------------------------------|-----------------------|--------|--------|----------|
| 1    | Particulate Matter (PM)               | IS:11255(Part-1)-1985 | mg/Nm3 | 54.23  | 150      |
| 2    | Sulphur Dioxide (SO <sub>2</sub> )    | IS:11255(Part-2)-1985 | mg/Nm3 | 30.17  | 100      |
| 3    | Oxides of Nitrogen (NO <sub>2</sub> ) | IS:11255(Part-7)-2005 | mg/Nm3 | 19.84  | 50       |

|           |                                                                     |
|-----------|---------------------------------------------------------------------|
| Inference | As per KSPCB Standards: Results are within the standards prescribed |
|-----------|---------------------------------------------------------------------|

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AUTHORIZED SIGNATORY

----- End of the Report -----

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## TEST REPORT

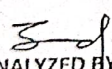
- |                                    |                                         |
|------------------------------------|-----------------------------------------|
| 1. Name of the Industry            | : Karnataka Waste Management Project.   |
| 2. Stack Id                        | : KWMP/DG500KVA/Stack/01                |
| 3. Stack Attached to               | : 500 KVA DG Sets                       |
| 4. Sample Collected by             | : KWMP- Laboratory                      |
| 5. Date of Collection              | : 05.08.2024                            |
| 6. Particulars of Sample Collected | : PM, SO <sub>2</sub> , NO <sub>x</sub> |
| 7. Date of Sample Received         | : 05.08.2024                            |
| 8. Sample Register Number          | : KWMP-500KVA-DG Stack-2024-08-01       |
| 9. Report Number                   | : KWMP/500KVA/DG Stack/2024-08/01       |
| 10. Report Date                    | : 07.08.2024                            |

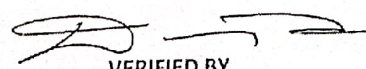
### General Details

|                              |                                       |
|------------------------------|---------------------------------------|
| Date & Time of Monitoring    | 05.08.2024@16.05                      |
| Stack Diameter (m)           | 0.1016                                |
| Fuel Used                    | Low Sulphur High Speed Diesel (LSHSD) |
| Ambient Air Temperature (°C) | 27.1                                  |
| Stack Gas Temperature (°C)   | 107                                   |
| Stack Gas Velocity (m/s)     | 9.0                                   |
| Height (m)                   | 8                                     |
| Discharge Rate (m3/hr.)      | 212.36                                |

| S.No | Test Parameters                       | Test Method           | Unit   | Result | Standard |
|------|---------------------------------------|-----------------------|--------|--------|----------|
| 1    | Particulate Matter (PM)               | IS:11255(Part-1)-1985 | mg/Nm3 | 52.48  | 150      |
| 2    | Sulphur Dioxide (SO <sub>2</sub> )    | IS:11255(Part-2)-1985 | mg/Nm3 | 29.67  | 100      |
| 3    | Oxides of Nitrogen (NO <sub>2</sub> ) | IS:11255(Part-7)-2005 | mg/Nm3 | 20.71  | 50       |

|                  |                                                                            |
|------------------|----------------------------------------------------------------------------|
| <b>Inference</b> | <b>As per KSPCB Standards: Results are within the standards prescribed</b> |
|------------------|----------------------------------------------------------------------------|

  
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----- End of the Report -----

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