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1.0 PROJECT DESCRIPTION

M/s Medwaste Management Pvt. Ltd. has proposed Greenfield project for Common Bio-medical Waste Treatment & disposal facility at Plot No. 633 , Village- Kantrabali, Tehsil - Muniguda, Dist. Rayagada, Odisha. Application was submitted for obtaining Terms of References (TOR) for conducting the EIA studies. Accordingly, the project proponents have submitted prescribed application along with Pre-Feasibility Report vide proposal No:- SIA/OR/INFRA2/548755/2025 for seeking terms of references for conducting the EIA Study. SEIAA, Odisha granted TOR for the project on 09.10.2025 vide TOR Identification No. 548755/131-MINB1/08-2025. The State Expert Appraisal Committee, Odisha shall appraise the project.

“The project falls under Category “B” of Schedule 7 (da), as per the EIA Notification, 2006 & its amendment till date and will be appraised by SEAC, Odisha”

Total land required for the project is 1.13 Acre (0.45 Ha). Out of which 0.37 Acre land will be reserved for development of green belt and plant will be planted 2500 trees/ha as per the MoEFC&CC requirement.

Environment monitoring was done during pre-monsoon season during 01st March 2025 to 31st May 2025.

Project Promoters:

M/s Medwaste Management Pvt. Ltd. will be managed by Mr. Rajendra Seth. He is experienced and knowledgeable employees for the respective areas of operation.

1.1 Salient Features of the Project

1	Identification of project	Category B1, Schedule 7(da)
2	Name of the Company	M/s Medwaste Management Pvt. Ltd.
3	Registered Office Plant& Admin Office	<p>Plant:</p> <p>Plot No.: 633, Village- Kantrabali, Tehsil - Muniguda, Dist. Rayagada, State-Odisha.</p> <p>Admin Office:</p> <p>Plot No.: 654 (Prem Nivas), K-8 (Kalinga Nagar), Po: Ghatikia, Bhubaneswar, District: Khordha</p> <p>State: Odisha, Pin: 751029</p>
4	Name of the Directors	Mr. Ratan Kumar Dash
5	Proposed Sector	Infrastructure and Miscellaneous Projects + CRZ
6	Area of plant	1.13 Acre (0.45 Ha)
7	Topo Sheet No	E44F10
8	Latitude	19°39'46.21"N
9	Longitude	83°32'49.71"E
10	Proposed Units& Total Capacity	<p>Waste handling capacity = 5 TPD</p> <ul style="list-style-type: none"> • Autoclave – 1000 Ltr/batch (1 No) • Shredder – 200 kg/hr (1 No) • Incineration – 250 kg/hr(1No) • ETP – 8 KLD
11	Cost of Project	INR 3.5 Crore
12	Working Days	330
13	Life Span of CBWTF	25 Years

1.2 LOCATION OF THE PROJECT

Plot No.: 633, Village- Kantrabali, Tehsil -Muniguda, Dist. Rayagada, State-Odisha.

The nearest road is SH-6 which is at 6.5 km in W from the project site. The nearest railway station is Muniguda railway station at 7.1 km towards SW from the project site. Nearest airport to the project site is Utkela Domestic Airport at a distance of 6.7 km towards SSW from the project site.

2.0 DESCRIPTION OF BASELINE ENVIRONMENT

The baseline study was conducted during 1st March 2025 to 31st May, 2025 during pre-monsoon season.

Summary of Ambient Air Quality

- During the study PM₁₀ was observed in the range of 41.3 to 85.7 µg/m³.
- PM_{2.5} was observed in the range of 14.9 to 45.9 µg/m³
- SO₂ concentration was observed in the range of 4.0 to 7.4 µg/m³, which is well within the standard limit.
- NO_x concentration in was observed in the range of 10.1 to 36.0 µg/m³, which is well within the standard limit.

Ground Water and surface water was analysed at eight locations within study area

Summary of Ground Water Quality

- pH was observed in the range of 7.09 to 7.74 which meets with desirable norms.
- Total dissolved solid were recorded in the range of 410 mg/l to 500 mg/l site.
- Total hardness was in the range of 239 mg/l to 246 mg/l.

Summary of Surface Water Quality

The following description is based on the analysis of the samples:

- During the analysis pH of the samples was found in the range of 7.35 to 7.83.

Soil samples were collected from 05 sampling locations. The analysis results show that soil is alkaline in nature as pH value ranges from 7.79 to 7.96, Iron ranges from 58 to 74 mg/kg, Bulk Density is 1.41 to 1.45 gm/cc,

Assessment of day noise levels around the study area range between 43.8 to 62.3 dB (A) during study period. Whereas the night equivalents were in the range of 34.9 to 52.3 dB (A). From the results it can be seen that the Day equivalents and the Night equivalents were within the Ambient Noise standards of residential areas standards.

According to 2011 Population Census the study area has a total population of 126438.

ANTICIPATED ENVIRONMENTAL IMPACT & MITIGATION MEASURES

- The flue gas resulting from the combustion process is raised to a temperature to $800^{\circ}\text{C} \pm 50^{\circ}\text{C}$ for at least 2 seconds in the incinerator
- The incinerator will be equipped with air pollution control system i.e, quencher, ventury scrubber followed by ID fan with 30 m stack.
- The main wastewater generation sources in the proposed project are water of quencher, cleaning of the floors and pavements of the facility and vehicles, vehicle wash area, etc will be treated in ETP.
- The domestic waste water will be disposed in septic tank followed by soak pit.
- Zero effluent discharge will be practiced.
- High noise generating equipment's like pumps, motors, etc. should be on anti-vibration pads, closed rooms and regular maintenance as suggested by the manufacturer
- Providing suitable enclosures (adequate insulation) to minimize the impact of high noise generating sources.
- Ash and ETP sludge generated during the operation phase would be sent to the Hazardous waste secure landfill site at TSDF.
- 100% of waste water will be recycled and Zero discharge condition will be maintained.
- Low noise emitting plant and machinery will be selected. 33% land area will be developed as greenbelt. The noise level at plant boundary will be maintained below 70 dBA.
- Appropriate traffic management plan will be implemented.

3.0 ENVIRONMENTAL MONITORING PROGRAM

An environmental management cell will be formed headed by CBWTF head to undertake routine environmental monitoring. Monitoring will be done to ensure compliance with the prescribed laws and standards. The environmental cell will provide necessary services and co-ordinate on environmental issues of the project. This environmental group will be responsible for implementation of environmental management plan, interaction with the environmental regulatory agencies, reviewing draft policy and planning. This department will interact with State Pollution Control Board (SPCB), other environment regulatory agencies and all member. The department will also interact with local people to understand their problems and to formulate appropriate community development plans.

EMC will be responsible for the following functions:-

Regular monitoring of:-

- Pollution Monitoring Facilities
- Reporting Schedules of the Monitoring Data
- Measuring the ambient air quality at upwind and downwind direction of crusher, at plant boundary.
- Checking the wastewater quality (inlet and outlet).
- Checking the ground water quality near the project area, and surrounding villages.
- Noise monitoring at plant boundary, nearest habitation, near highway, and working area.
- Development and maintenance of greenbelt and greenery within the plant boundary.

5.0 ADDITIONAL STUDIES

Adequate fire mitigation measures will be ensured for handling fire in project area in case of emergency. Disaster Management Plan has been prepared to take care of public health and safety during any accident.

CER will be done as per CER norms. Generally, the CER amount use to spent for making classrooms in local schools, providing teaching aids, making community centres, develop drinking water facility in nearby villages, making rainwater harvesting structures like anicuts and check dams in the area, developing infrastructure facilities and equipment in primary health centres.

As per MoEF&CC Office Memorandum vide F.No.22-65/2017-IA.III dated. 30th September 2020, following is budgetary allocation (Rs. 39.75 Lakh) for commitment made by Project Proponent to address the activities for CER.

6.0 PROJECT BENEFITS

The proposed project is expected to yield a positive impact on the socio-economic environment within the study area. It helps to sustain the development of this area including further development of physical infrastructural facilities.

During Construction as well as operation phase, the labors and workers will be mostly hired from nearby villages. Approx. 60 persons are expected to be employed during operational phase, for the skilled, semi-skilled and unskilled category. The preference will be given to local population for employment in the semi-skilled and unskilled category; this will increase the employment opportunity in the surrounding area. More revenue will be generated by the way of GST to the State & Central exchequers.

7.0 ENVIRONMENTAL MANAGEMENT PLAN

Environmental Management Plan for effective management of environmental impacts and ensuring overall protection of the environment through appropriate management procedures has been developed. In order to implement the recommended mitigation measures and institutionalize the EMP, budgetary provision of Rs. 39.75 Lakh (excluding CER) capital expenditure has been made and Recurring annual expenditure will be Rs 15.5 Lakh.

Environment Management Cell (EMC) will ensure that all air pollution control device, effluent treatment plants and water re-circulating systems function effectively. EMC will also supervise disposal of solid hazardous waste to the TSDF Site. Plantation will be started during the construction phase by following the guidelines issued by the Central Pollution Control Board. Schemes for resource conservation (raw materials, water, etc), rainwater harvesting and social forestry development will be taken up by EMC. Regular environmental awareness programs for the employees will be conducted.

Workers will be periodically subjected to health check-up. EMC will ensure cleanliness and industrial hygiene in the plant. The review will ensure enforcement of the proposed safeguards for pollution abatement, resource conservation, accident prevention and waste

minimization. The implementation of EMP would ensure that all elements of project comply with relevant environmental legislation throughout its life cycle.

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