

Messrs M. G. Mohanty
Mine Owners

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MGM/BO/2023-24/06-64
Date: 30th June 2023

To
The Member Secretary
State Pollution Control Board,
Paribesh Bhawan,
A/118, Nilakanthanagar,
Unit- VIII, Bhubaneswar-751012

Sub: **Submission of Environmental Statement-Form-V for the year ending 31st March 2023 in respect of our Patabeda Iron Mines over 14.00 Ha. in Sundargarh district of Odisha.**

Dear Sir,

We are submitting herewith the Environmental Statement-Form-V for the year ending 31st March 2023 in respect of our Patabeda Iron Mines over 14.000Ha of M/s M G Mohanty in Sundargarh district of Odisha.

Thanking you.

Yours faithfully

For M/s. M G Mohanty


Mines Manager
Patabeda Iron Mines
(14.000 Hects)
of M/s. M. G. Mohanty

Encl. : As above

ANNEXURE

ENVIRONMENTAL STATEMENT FORM-V

(See rule 14)

Environmental Statement for the financial year ending with 31st March 2023

PART-A

i. Name and address of the owner/

Occupier of the industry operation or process: **R L Mohanty, Managing Partner**
Patabeda Iron Mines(14.00Ha)
M/s M. G. Mohanty, 5A, Forest Park,
Bhubaneswar, Dist- Khurda
Odisha-751009

Operation or process.

i. Industry category

Primary-(STC Code) Secondary- (STC Code): : **Opencast Mining**

ii. Production category

: **0.12 MTPA**

Year of establishment

: **2006**

iii. Date of the last environmental statement submitted.

PART- B

Water and Raw Material Consumption :

iv. Water consumption in m³/d

Process : **15 (Water Sprinkling within the mines& surrounding village road)**

Cooling :

Domestic :

Name of Products	Process water consumption per unit of products	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
<i>This is an opencast iron ore mines producing calibrated ore & fines. Water is required for dust suppression at screening plant, water sprinkling within the mines & watering in plantation area.</i>		

v. Raw material consumption

Name of raw materials*	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year (2021-22)	During the current financial year (2022-23)
This is an opencast iron ore mine, after mining the RoM ore is fed in to the Screening unit to produce sized ore & fines.			

*Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

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.
(c) Water	<i>As the industry is being operated on dry process technology, no liquid effluent is generated from the screening process.</i> <i>Domestic wastewater generated from residential colony is channelized to STP.</i> <i>The concentration of the pollutants are within permissible standard as per the monthly water quality data monitoring by SUPCO Govt. approved Analyst, (Copy attached)</i>		
(d) Air	<i>Since this is an open cast mine, the dust generation is mainly due to the movement of vehicles in the haul roads, drilling activities etc., which is fugitive in nature and cannot be quantified. The fugitive dust is minimised by sprinkling of water by mobile tanker and development of green barrier by plantation around the leasehold area.</i> <i>The ambient air quality are within permissible standard as per the monthly air quality data monitoring by SUPCO Govt. approved Analyst, (Copy attached)</i>		

PART-D

HAZARDOUS WASTES

(as specified under Hazardous Wastes (Management & Handling Rules, 1989).

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
f. From process – used oil	0.463KL	0.193KL
-Waste containing oil	0.036T	0.021T
g. From pollution control facilities		

PART-E

SOLID WASTES:

Solid Wastes	Total Quantity (Tonne)	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
h. From process	33723 tonne	14494.6 tonne
i. From Pollution Control Facility	NIL	NIL
j. Quantity recycled or re-utilised 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.

- **Characterisation of Hazardous waste-** *The composition of hazardous wastes like Waste oil & Used oil are Hydrocarbons, lead and used acids.*
- **Characterisation of Solid waste-** *The composition of the solid waste (overburden & waste) contains laterite, BHJ, Shale etc.*
- **Disposal Practice-** The waste oil generated at various sources is collected in leak proof barrels. The used cotton wastes generated at various location are kept in designated barrels.

PART-G

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

- Water spraying on haul roads and mine pits is done regularly to suppress the dust.
- All the haul roads in the mining area are made up of laterite & compacted. Regular maintenance is being done.
- Wet drilling has been implemented in all drills.
- Controlled blasting technique is adopted..
- Year-wise plantation has been carried out in & outside lease area.
- CSR & Peripheral development has been done on regular basis.

PART-H

Additional measures/investment proposal for environmental protection including batement of pollution.

Garland drains and Retaining wall around the OB dumping and settling tank are constructed to check and channelize surface run-off as per necessity.

Plantation of natural specices has been carried out over the inactive waste dump terraces to arrest the airborne dust & nearby villages.

PART-I

MISCELLANEOUS:

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

1. *Measures taken to control Air Pollution:-*

- *Water sprinkling on the haul road.*
- *Provision of dust masks to the workmen.*

2. *Measures taken to control water pollution.*

Construction of retaining wall and garland drain along the dump slope to prevent surface run-off during monsoon.

3. *Measures taken to control Noise& Ground water Vibration;*

Thick plantation has been developed around the mines to provide a canopy cover.

Implementation of advance blasting technique to reduce the blast induced ground vibration.

Workmen are provided with ear-muff while working near heavy earth moving machineries.

4. *Measures taken to control Land Degradation*

Afforestation around the non-active dump and settling tank for slope stabilization



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