

M/S. D.R. PATNAIK

Mines Owner

(A UNIT OF D.R. PATNAIK & ALTRADE GROUP)

Ref No: MIOM/SPCB/ES/2020 - 118

Date: 15.09.2020

The Member Secretary,
State Pollution Control Board, Odisha,
Parivesh Bhawan, A/118,
Nilakantha Nagar, Unit-VIII,
Bhubaneswar-751012.

Sub: Environmental Statement of "Murgabeda Iron Ore Mines of Sri. D.R Patnaik" located in Thakurani RF near village Murgabeda, Tehsil-Barbil, Dist.: Keonjhar" for the year ending March- 2020.

Sir,

With reference to the above, we are herewith submitting the "Annual Environmental Environmental Statement" for the financial year ending **March-2020 (2019-20)** in **Form-V** as per rule-14 under Environment (Protection) Rules, 1986.

This is for your kind information, please.

Thanking You,

Yours Sincerely,


Mines Manager
Murgabeda Iron Ore Mines
Sri. D.R Patnaik

Encl. : As above.

Copy to: The Regional Officer, State Pollution Control Board, Regional Office, College Road, Dist.: Keonjhar, Odisha.

The Member Secretary, SEIAA, Odisha (MoEF&CC), Bhubaneswar -751 022.
E Mail: seiaaorissa@gmail.com

Mines Manager
Murgabeda Iron Mines
M/s D R Patnaik

[FORM-V]

(See Rule 14)

Environment Statement for the financial year ending the 31st March 2020

PART-A

- (1) Name and address of the owner / Occupier of the industry, Operation or process: - **Murgabeda Iron Ore Mines
Sri. D.R Patnaik
Works office: A-6, Commercial Estate Civil
Township, Rourkela-769004, Odisha
Phone: 91-661-2400014, Fax: 91-661-2401359**
- (2) Industry category Primary - **(STC CODE) Secondary-(SIC Code)**
- (3) Production capacity Units - **2.0 MTPA**
- (4) Year of establishment - **1976**
- (5) Date of the last Environmental Statement Submitted - **15.09.2019**

PART-B

Water and Raw material Consumption:

(1) Water Consumption m³/day - **75 m³/ Day**

Process (Dust suppression, Green Belt development & Workshop) - **60, 08 & 03 m³/Day**
Domestic - **04 m³/Day**

Name of Product	Process water consumption per unit of output
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Sized Iron Ore

Not Applicable

	During the previous Financial year	during the current financial year
	(1)	(2)
(1)	NIL (2018-19)	0.02 KL/ Tonne
(2)		(451740.000 Tonne in 2019-20)

1. Substituted by rule 2 (b) of the Environment (Protection) Amendment rules, 1993 notified vide G.S.R vide G.S.R 3'6 (E) dated 22.04.1993.

(ii) Raw material consumption - **Not Applicable**

Name of raw Material	Name of Products	Consumption of raw material Per unit of out put
During the previous	during the current Financial Year	Financial year

*Industry may use codes if disclosing details or 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 - **Not Applicable**
(Parameter as specified in the consent issued)

(1)

Pollutants	Quantity of pollutants discharged in (mass/day)	Concentration of pollutants on discharges (mass/volume)	% of variation from prescribed standard with reason
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(a)

1. Water- (Surface Run-Off Discharge during monsoon period): NIL

2. Site Specific Working Effluent cum ETP

<i>Different Parameters</i>	<i>Norms</i>	<i>Result</i>	<i>Quantity of pollutant discharged mass/volume</i>	<i>% of variation from prescribed standard</i>
Total suspended solids(TSS)	100	72	0.36	28 %
Total Iron (Fe)	3	0.88	0.0044	71 %
Manganese(Mn)	2	0.30	0.00150	85 %

3. Site Specific Working Sewage treatment plant (STP)

<i>Different Parameters</i>	<i>Norms</i>	<i>Result</i>	<i>Quantity of pollutant discharged mass/volume</i>	<i>% of variation from prescribed standard</i>
Total suspended solids(TSS)	200	84.17	3.37	58 %
Oil& grease	10	5.95	0.24	41 %
Total Iron (Fe)	3	1.02	0.04	66 %

Air: Not Applicable

Note: Present is no such trade effluent and source emissions, expect surface run - off discharge

PART – D

Hazardous Wastes

(As specified under Hazardous Waste/ Management and Handling Rules, 2016) and subsequent amendment there-of.

Hazardous waste [Waste Oil]	Total Quantity [liters]	
	During the previous Financial year, 2018-19	During the Current financial year, 2019-20
1) From process	NA	NA
2) From Pollution Control Facility	NA	NA
3) Used Oil	NIL	0.5 KL
4) Oil contaminate waste	NIL	20 Kg

PART-E

Solid Waste

Total Quantity		
Financial Year	During the previous Financial year, 2018-19	During the current Financial year, 2019-20
(a) From process: (Overburden and Intercalated Waste)	: NIL	NIL
(b) From pollution control facility	: Not Applicable	
(c) (1) Quantity recycled or re-utilized within the unit	: Not Applicable	
(2) Sold	: Not Applicable	
(3) Disposed	: It is used up for road making & maintenance as per approved mining plan by Indian Bureau of Mines (IBM).	

PART-F

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

- The mines were closed since April-2010 and resumed its operation on 27th Nov-2019.
- There is no such hazardous waste is being generated, other than used oil, oil contaminated waste, etc.
- Overburden waste is being used up for road maintenance purpose inside the mine.

- There is no top soil generation during the reporting period, 2019-20 as the work is confined to already broken up area only.
- Used Oil: Collection in leak proof barrels and stored in isolated yards under shed with impervious floor having secondary containment pit at the corner for the temporary storage.
- Oil contaminated cotton waste: Compacted into small packages and stored under isolated area in the yard.

PART-G

Impact of the pollution abatement measures taken on conservation of natural re-sources and on the cost of the production

- Rain water harvesting project completed in staff campus to recharge the ground water as a major step of natural conservation of water resources.
- Plantation is being carried out to retain the soil captivity as well as to increase the water holding.

PART- H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- Water sprinkling on haul roads carried out by engaging 18 KL & 8 KL capacity of water tanker on daily basis.
- Dry fog system is provided in all screen plants for dust suppression.
- Plantation in safety zone and dump areas has been carried out.
- Check-dam, check weirs for surface run-off & silt management during monsoon season.

PART-I

Any other particulars for improving the quality of the environment

- Step towards Environmental Awareness Program, project has observed the “World Environment Day, 5th June 2019” with the plantation campaign in the area.
- Steps are also taken by the project to create awareness about water conservation, wildlife conservation etc. at nearby villages.

PHOTO



Mobile Water Tanker for dust suppression on mines haul road & Dry fog system at screen plant



Photo showing check dam, guard wall along the nalla& retaining wall



STP for treatment of Domestic Waste Water



Roof top Rain Water Harvesting structure