M/S. D.R. PATNAIK

Mines Owner

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

Ref No:MIOM/SPCB/ES/2020-21/ 47-A **Date: 10.09.2021**

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

Sub: Environmental Statement of "Murgabeda Iron Ore Mines of Sri.D.R Patnaik" located in Thakurani RFnear village Murgabeda,Tehsil-Barbil, Dist.: Keonjhar" for the year ending March- 2021.

Sir,

With reference to the above mentioned subject, we are herewith submitting "**Annual Environmental Statement" for the financial year ending March, 2021** (April, 2020 to March, 2021)" in **Form-V** as per rule-14 under Environment (Protection) Rules, 1986 of **Murgabeda Iron Ore Mines of Sri. D.R Patnaik**through email – paribesh1@ospcboard.org due to prevailing pandemic COVID-19 and lock down situation across the country & state.

This is for your kind information, please.

Thanking You,

Yours Sincerely,

For Prafullakata Behura

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

Mines Manager
Murgabeda Iron Ore Mines
M/s. D. R. Patnaik

Encl. : *As above.*

Copy to: 1. *The Regional Officer,State Pollution Control Board,Regional Office, College Road,Dist.: Keonjhar, Odisha.*

2. The Jt. Director (S), Integrated Regional Office, MoEF&CC, A-3, Chandrasekharpur, Bhubaneswar- 751023 (Odisha). The soft of the Annual Environment Statement is mailed to: mef.or@nic.in

A/6, Commercial Estate, Civil Township, Rourkela - 769 004, Odisha
Phone : +91-661-240-0139, 240-2227, 240-1689, Fax : +91-661-240 2226, 240-1359

[FORM-V]

(See Rule 14)
Environment Statement for the financial year ending the 31st March 2021

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 EstateCivil 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 m^3/day - **75KLD**

Process

Dust suppression,	- 60 KLD
Green Belt development &	- 8 KLD
Workshop)	- 3 KLD
Domestic	- 4 KLD

Name of Product	Process water consumption per unit of output
Sized Iron Ore	**Not Applicable**

	During the previous Financial year (1) (2019-20)	during the current financial year (2) (2020-21)
(1)	0.02 KL/ Tonne	0.36 KL/ Tonne
(2)	(451740.000 Tonne in 2019-20)	(753670.000 Tonne in 2020-21)

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 (Parameter as specified in the consent issued) - **Not Applicable**

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

(a)

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

Different Parameters	***Norms***	***Result***	***Quantity of pollutant discharged mass/volume***	***% of variation from prescribed standard***
Total suspended solids(TSS)	**100**	71	55.91	29%
Iron	**3**	0.16	0.13	94.6 %
Manganese(Mn)	**2**	1.27	1.0	36.5 %

2. Site Specific Working Effluent cum ETP

Different Parameters	***Norms***	***Result***	***Quantity of pollutant discharged mass/volume***	***% of variation from prescribed standard***

Total suspended solids(TSS)	**100**	83.36	0.42	17 %
Total Iron (Fe)	**3**	1.23	0.0062	59 %
Oil & Grease	**10**	6.09	0.0304	39.09 %

3. Site Specific Working Sewage treatment plant(STP)

Different Parameters	***Norms***	***Result***	***Quantity of pollutant discharged mass/volume***	***% of variation from prescribed standard***
Total suspended solids(TSS)	**100**	85.27	3.41	15 %
Oil& grease	**10**	3.98	0.16	60 %
Total Iron (Fe)	**3**	1.75	0.07	42 %

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, 2019-20	During the Current financial year, 2020-21
1) From process	**NA**	**NA**
2) From Pollution Control Facility	**NA**	**NA**
3) Used Oil	**0.5 KL**	**5.5KL**
4) Oil contaminate waste	**20 Kg**	**200Kg**
5) Empty Barrels		**319 Kg**
6) Oil filters		**40 Kg**

PATRT-E

Solid Waste

	Total Quantity	
Financial Year	During the previous Financial year, 2019-20	During the current Financial year, 2020-21
(a)From process: **(Overburden and Intercalated Waste)**	**: NIL**	**6250.000 MT**
(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 Bereau 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 OB generated during the mining operation is being used up for road making and its maintenance as per approved Scheme of Mining from IBM.
- There is no such hazardous waste is being generated, other than used oil, oil contaminated waste, Used oil barrel, oil filters etc.
- There is no top soil generation during the reporting period, 2020-21 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 allscreen 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 2021" 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

Photo showing water tanker sprinkling on road and dry fog system at screen plant

Photo showing tarpaulin cover on ore carrying vehicle

Photo showing guard wall to arrest silt going to nalla

Electronic display board at the entrance of mines

Photo showing plantation carried out in safety zone and grass patching