

Ref.No.: SML/SC/ES/OSPCB/23-24/351

Date:29.09.2023

To,

The Member Secretary,

State Pollution Control Board, Odisha,
Parivesh Bhawan, A/118, Nilakantha Nagar,
Unit-VIII, Bhubanesvvar-751012.

Subject: Environmental Statement of “Khandbandh Iron Ore Mines of M/s. Sree Metaliks Ltd.” located in Khandbandh village, Tehsil-Barbil, Dist.: Keonjhar“for the year 2022-2023.

Respected Sir,

With reference to the above mentioned subject, we are herewith submitting “Annual Environmental Statement” for the financial year 2022-2023 (April, 2022 to March, 2023)” in Form-V as per rule-14 under Environment (Protection) Rules, 1986 of Khandbandh Iron Ore Mines of M/s. Sree Metaliks Ltd. through email — paribesh1@ospcboard.org. The hard copy of same will be submitted to your good office.

This is for your kind information, please.

Thanking You,

Yours Faithfully,

For Khandbandh Iron Ore Mines
M/s. Sree Metaliks Ltd.



Mines Manager
Khandabandh Iron Ore Mines
M/s. Sree Metaliks Limited

Encl.: As above.

Copy to: 1. The Regional Officer, SPCB, Regional Office, 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

CIN : U26939WB1995PLC075633

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[FORM-V]

(See Rule 14)

Environment Statement for the financial year ending the 31st March 2022

PART-A

(1) Name and address of the owner / Occupier of the industry, Operation or process	-	Khandbandh Iron Ore Mine M/s. Sree Metaliks Ltd. SML House, Main Road, Barbil – 758035, Keonjhar, Odisha. Email: smlmines@sreemetaliks.com Contact no: 6371087017
(2) Industry category Primary	-	(STC CODE) Secondary-(SIC Code)
(3) Production capacity Units	-	0.702 MTPA
(4) Year of establishment	-	21 March 2018
(5) Date of the last Environmental Statement Submitted	-	31.08.2022

PART-B

Water and Raw material Consumption:

(1) Water Consumption m ³ /day Process	-	150 m ³ / Day
Cooling (Water sprinkling on Haul roads) Plantation	-	130 m ³ / Day
Domestic (Drinking purpose)	-	10 m ³ / Day
Work shop	-	07 m ³ / Day
	-	03 m ³ / Day

Name of Product	Process water consumption per unit of output
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Sized Iron Ore	NA
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During the previous Financial year	During the current Financial year
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(1)

(2)

(1)
(2)
(3)

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
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During the previous Financial year

During the current 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)

A) Water:

(Parameter as specified in the consent issued)			
Pollutants	Quantity of Pollutants Discharged (Mass / day)	Conc. of Pollutants Discharged (Mass / Volume)	% of variation from prescribed standard with reasons
Water (ETP Discharge) 1 M³/Day			
pH	NA	6.74	Within the Range
TSS	0.0324 kg /day	32.40 mg/ lit	35.20 % below the norm
Oil & Grease	0.0031 kg /day	3.19 mg/ lit	68.10 % below the norm
Mines Surface runoff water Quality Report			
pH	NA	6.60	Within the Range
T.S.S	25.14 kg /day	5.20 mg/ lit	94.80 % below the norm
Oil & Grease	9.58 kg / day	19.80 mg/ lit	80.20 % below the norm

B) Air: Not Applicable

Note: Present there is no such trade effluent and source of emissions from current mines operation methodology.

PART - D
Hazardous Wastes

(As specified under Hazardous Waste/ Management and Handling Rules, 1986)

Hazardous waste [Waste Oil] [KL]	Total Quantity	
	During the previous Financial year 2021-22	During the Current financial year 2022-23
1) From process	NA	NA
2) From Pollution Control FACILITY	NA	NA
3) Used Oil	8.40 KL	8.4 KL
4) Oil contaminate waste	0.050 TON	0.050 TON

PART-E
Solid Waste

		Total Quantity
		During the current financial year
		During the previous Financial year
(a) From process:		
(Overburden and Intercalated Waste)	:276245(T)	657260 (T)
(b) From pollution control facility	: NA	NA
(c) (1) Quantity recycled or re-utilized		
Within the unit	: NA	NA
(2) Sold	: NA	NA
(3) Disposed	: It is dumped at ear marked areas within the ML Area	

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 waste.

There is no such hazardous waste is being generated, other than used oil, oil contaminated waste, filter & filter material, empty barrels & waste battery.

- 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, etc.: Compacted into small packages and stored under isolated area in the yard for the temporary storage till the safe disposal of the same.
- Overburden waste is being disposed at ear marked area inside the mine by following the proper sloping, terracing and further development of vegetation with plantation along with mixed grass and some parts are covered with coir mat applications. All the dumps have been provided with retaining wall followed by garland drain and settling at corner of each dump.
- After commencement of the mines operations, the top soil was collected till the period, 2019-20 and was stacked at the earmarked location which was subsequently utilized for the green belt development and site plantation purposes & rehabilitation of inactive dump slopes as per the approved Mining Plan.

PART-G

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

- Rain water harvesting project is going on to recharge the ground water as a major step of natural conservation of water resources.
- The project has implemented surface run off management structures i.e. Check dams, check weir's, Settling Ponds, guard walls, garland drains etc. in core zone followed by roof top rain water harvesting measures in residential camp establishments in the buffer zone area.

- 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 two no's of 12KL capacity of water tanker on daily basis.
- Dry fog system is provided in all crusher & 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 2023" 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.

Photos:

Photo #1 Showing OB Dump stabilization with plantation & geo-coir mate application



Photo #2 Showing Retaining wall & garland drain around OB Dumps



Photo #3 Showing settling cum harvesting pits along with check dam & check weir



Photo #4 Showing Plantation in Mine Lease Safety Zone



Photo #5 Showing 12 KL Water tanker for Dust Suppression on the Haul Road



Photo #6 Showing Dry fog system in Crusher and Screen Plant



Photo #7 Environment day plantation programme

