

MSP METALLICS LIMITED

Office : VIII. & P.O. Marakuta, Dist.Jharsuguda, PIN-768202, Odisha
Ph. 8393089903, E-mail:edoffice@mspsteeljsg.com
CIN No.U27109WB1996PLC082138

MSPML/JSG/OSPCB/2023-24/1-E/198
30th September 2023

To
The Member Secretary,
State Pollution Control Board, Odisha,
A/118, Nilakantha Nagar, Unit - VIII,
Bhubaneswar, Odisha - 751 012

Sub.: Submission of Environmental Statement in Form - V as prescribed under E (P) Rules, 1986 for the Financial Year 2022-2023

Ref.: 1. Consent Order vide letter no. 4427/IND-I-CON-5973 dated 22/03/2023
2. Consent Order vide letter no. 9461/IND-I-CON-5973 dated 13/06/2023

Dear Sir,

With reference to the above, we are submitting herewith the Environmental Statement in Form - V as prescribed under E (P) Rules, 1986 for the Financial Year 2022-2023 for your kind perusal and necessary action / record please.

Thanking you,

Yours faithfully,
For MSP Metallics Limited


J P Sharma
Executive Director (Works)

Copy to: The Regional Officer, State Pollution Control Board, Odisha, Regional Office, Jharsuguda, Odisha



Environmental Statement

**For
The Financial Year
(2022-2023)**

**M/s MSP Metallics Limited.
At/PO: Marakuta,
Dist: Jharsuguda, Odisha- 768202**

[FORM – V]

(See rule 14)

Environmental Statement for the Financial Year ending the 31st March, 2023

**PART – A
General Information**

- (i) Name and Address of the Owner / : **Mr. J. P. Sharma**, Occupier
M/s MSP Metallics Limited
At/PO: Marakuta,
District: Jharsuguda.Odisha,
PIN Code: 768202
- (ii) Industry category :
Primary (STC code)
Secondary (STC code)

Sl. No	Products	As per NIC Code 2008		
		Group	Class	Sub Class
1	Sponge Iron - DRI	241	2410	24102
2	Electric Power	351	3510	35102
3	Steel Billets	241	2410	24103
4	Iron Ore Pellet	241	2410	24109
5	Iron Ore Sinter	241	2410	24109
6	Coal Gas	-	-	-
7	Pig Iron /Hot Metal	241	2410	24101

(iii) **Production, Capacity, Units**

Sl. No	Products	Installed Capacity	Unit
1	Sponge Iron - DRI	2,40,000	TPA
2	Electric Power	WHRB: 8 AFBC : 16	MW MW
3	Steel Billets	1,07,700	TPA
4	Iron Ore Pellet	6,00,000	TPA
5	Iron Ore Sinter	4,60,000	TPA
6	Pig iron	1,88,000	TPA
7	Producer gas	8000	Nm3/hr

(iv) **Year of Establishment after taken over of the Plant through NCLT Process by the Present Management** :

Sl. No	Name of the Unit	Products	Date of Commercial Production
1	DRI Kilns	Sponge Iron	04/09/2022- 8 th Kiln 12/09/2022- 7 th Kiln 01/10/2022- 5 th Kiln 10/10/2022- 6 th Kiln 03/12/2022- 2 nd Kiln 26/12/2022- 3 rd Kiln 27/11/2022- 4 th Kiln 27/01/2023- 1 st Kiln
2	CPP	Electric Power	WHRB: 15/10/2022 AFBC: 01/12/2022
3	Steel Melting Shop	Steel Billets	26/11/2022
4	Pellet Plant	Iron Ore Pellet	30/01/2023

* Commercial production mentioned after taken over of the Plant through NCLT Process by the Present Management.

(v) Date of last Environmental Statement Submitted : 30/09/2022

PART – B
Water and Raw Material Consumption

(1) Water Consumption m³/day.

Sl. No	Requirement Purpose	Water consumed m3/ day
i	Process	27
ii	Cooling	429.00
iii	Domestic	5.00
Total		461.00

Name of the Products	Process water consumption per unit of product output	
	During the previous Financial year (2021-2022)	During the current Financial year (2022-2023)
	(1)	(2)
Sponge Iron	NIL	Nil
Electric Power	Plant was completely Shut down	2.5m3/MWh

Steel Billets		Nil
Iron Ore Pellet		Nil
Iron Ore Sinter		Nil
Producer Gas Plant		Nil

ii) Raw Material Consumption:

Name of raw Materials	Name of products	Consumption of raw material per unit of output	
		During the previous Financial year (2021-2022)	During the current Financial year (2022-2023)
Iron Ore Pellet or Sized Iron Ore	Sponge Iron	Plant was under Shut Down	Iron Ore Pellet or Sized Iron Ore : 1.536t/t
Raw Coal			1.026t/t
Dolomite			0.058t/t
Coal	16 MW AFBC Power	Plant was under Shut Down	0.346 t/MW
Char Coal			1.118 t/MW
Sponge Iron	Steel Billets	Plant was under Shut Down	0.781t/t
Pig Iron			0.083 t/t
Scrap			0.323 t/t
Ferro Alloys			0.001 t/t
Iron Ore	Iron Ore Pellet	Plant was under Shut Down	1.151 t/t
PCI Coal			0.022 t/t
Mill Scale			0.007 t/t
Lime Stone			0.008 t/t
Coke Fines			0.024 t/t
Bentonite			0.008t/t

PART – C

Pollution discharged to environment / unit of output
(Parameter as specified in the consent issued)

Consideration: Final Output of 5291.00 Metric Ton of Steel Billets with 40 Days of Plant operation.

1) Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation prescribed standards from with
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			reasons
a) Water	No Polluted Water being discharged from the Factory Premises	Not Applicable	Not Applicable
b) Air i. PM	392.8667907 kg.day	36.67 mg/NM3	No Variation

PART – D

Hazardous Wastes

(As specified under Hazardous Waste Management and Handling Rules, 1989)

As per the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008, the following wastes were identified and the Hazardous Waste Authorization was issued by OSPCB vide letter no. IND-IV-HW-987/18754 dated 10/11/2014

Sl. No	Waste Description	Schedule	Waste Stream	Quantity /Annum
1	Used Oil	I	5.1	5.00 KL
2	Waste Containing Oil	I	5.2	1.00 T
3	Flue gas Cleaning Residue	I	34.1	30.00 Kg
4	Spent Resin	I	35.2	-

Quantities Generated:

Sl. No	Source From	Total Quantity Produced (in Kg./KL)	
	(1) From Process	During the previous Financial Year (2021-2022)	During the Current Financial Year (2022-2023)
1	Used Oil	The Plant was under shut down and was under previous management. The Left Over quantity by the previous management is as under Used Oil : 20,000 KL Spent Resin : 0.02 KL	2.574 KL
2	Waste Containing Oil		521.5 Kg
3	Flue gas Cleaning Residue		Nil
4	Spent Resin		Nil
	(2) From Pollution Control facilities	The Plant was under shut down and was under previous management.	Nil

PART – E
Solid Wastes

		Type of Solid Waste	Total Quantity in Metric Ton	
			During the previous Financial Year (2021-2022)	During the Current Financial Year (2022-2023)
a)	From Process	Slag from Induction Furnace	The Plant was under shut down and was under previous management.	25 TPD
		Fly Ash and Bottom Ash of CPP		140 TPD
b)	From Pollution Control facility	Dolochar & Dust from APC Devises		160 TPD
c)-1	Quantity recycled or re-utilized within the unit	Dolochar re- used in AFBC boiler		150 TPD
c)-2	Sold	-		Nil
c)-3	Disposed	Fly Ash and Bottom Ash of CPP		140 TPD
		Slag from Induction Furnace		25 TPD
		Dust from APC Devises		10 TPD

PART – F

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

Hazardous Waste: Used Oil, Wastes Containing Oil, Flue gas Cleaning Residue and Spent Resins are the main Hazardous Waste was generated in MSP Metallics Limited, Jharsuguda by the previous management.

The present management has constructed RCC flooring with covered shed for storage of those Hazardous wastes inside the Plant Premises. The location of Hazardous Storage area is at an adequate distance from the Human habitation.

Mode of Secured Storage:

Used oil: Stored in impervious containers / barrels and stored under well ventilated covered shade having RCC flooring and facilities of oil trap.

Wastes containing oil: Oily Waste, Oily Cotton are stored separately in MS or PVC Barrel with Lid which is impervious in nature under covered shade.

Spent resin: Stored inside a well ventilated impervious pit inside the factory Premises.

Solid Waste Management:

- **Dolochar & dust from APC devices** : Dumped at designated dump site inside premises (Recycled)
- **Fly and Bottom Ash of CPP**: Supplying to the bricks manufacturing unit inside the plant.
- **Slag from Induction Furnace**: To be used for Road construction / land leveling, Paver Block making after recovering metal from Slag.
- **Dust from APC devices of Pellet Plant**: To be completely reused in the Pellet Making.
- **Dust from APC devices of Sinter Plant**: To be completely reused in the Sinter Making.

PART – G

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

Air Pollution Control Measure along with Fugitive Emission Management:

- 04 (Four) numbers of ESPs i.e. ESP No.1, ESP No.2, ESP No.3 and ESP No.4 have been installed at DRI Kiln No. I & II, DRI Kiln No. III & IV, DRI Kiln No. V & VI and DRI Kiln No. VII & VIII respectively. The heights of the stacks are 45 meters each.
- 11 (Eleven) numbers of common Bag Filters are attached to DRI Kiln I, II, III, IV, V, VI, VII and VIII to handle dust emission from Iron Ore Crusher, Iron Ore Circuit, Coal Circuit, Coal Crusher, Stock House (D-Bin), I-Bin, Cooler Discharge and Product House.
- 01 (One) ESP has been attached to AFBC Boiler of 16 MW (CPP) and the height of the Stack is 77 meters.
- 01 (One) Stack attached to Bag Filter with Swiveling Hood of Induction Furnace (2 X 30 T/H) and the height of the Stack is 25 meters. Swevling Smoke Hood has been provided in Induction Furnace.
- 01 (One) number of Stack of 50 meters height is attached to Multi Cyclone of Sintering Process of Sinter Plant.
- 01 (One) number of Bag Filter of capacity 65,000 NM³ per Hr attached at Flux area of Sinter Plant.
- 01 (One) Bag Filter of Capacity 1,10,000 NM³ per Hr attached at Sinter Discharge End.
- 01 (One) ESP connected to Rotary Drum of Pellet Plant with Adequately high Stack of 52 Mtrs.
- 01 (One) Bag Filter at Coal Pulverizing Unit with Stack height of 24 Mtrs.
- Multi cyclone connected to PH-1 and PH-2 of Travelling Grate of Pellet Plant.
- 04 (Four) numbers of rain gun type sprinklers with a range of 50m at coal stock yard and iron ore stock yard to control fugitive emission
- 75 nos. of fixed rotary type sprinklers for dust suppression at raw material stock yard and internal roads
- Fog mist Canon System is available.
- 33% of the total plant area has already been developed as a greenbelt. However, the existing greenbelt is being strengthened to increase the density as well as gap filling. Total 250 Nos of saplings have been planted during the period of October 2022 to March 2023.

- 04 nos of Online Ambient Air Quality monitoring System have been reached at Plant and installation work is in progress. (Beta Attenuation)
- 07 nos. of Online Continuous emission monitoring system (CEMS) have been installed as per the guideline of CPCB.
- Continuous stack monitoring facilities PM & Gases for all the stacks of operating units have been installed as per CPCB Guidelines.
- In addition, water sprinkling on internal roads and village roads in immediate vicinity are also carried out manually with the help of 01 no. of water tanker of capacity of 5.0 KL and another water tanker of capacity of 12 KL.

Effluent Generation and Management System

The Effluent Treatment Plant of the said project is mainly for treatment of DM Plant regeneration water, Boiler Blow Down and Cooling Tower Blow Down. Generation of waste water from those sources is to the tune of 410 M³ / Hr. ETP of capacity 1000 M³/day has been provided. All these plants are operating 100 % Re-Circulation method.

Thus there is no waste water generated for Discharge due to following reasons:

- Water is used for re-circulation for cooling purposes at DRI, SMS, CPP (WHRB & AFBC).
- Water is used for Boiler feed Make up.
- Waste water generated during DM Plant regeneration, Cooling Tower Blow Down, Auxiliary Blow Down and Boiler Blow Down are treated in ETP (Neutralization Pit).
- Neutralization Pit is provided at the DM Plant. It is mainly for pH correction of the waste water.
- This water after treatment is used for de-dusting, Fire Fighting and for irrigating plantation areas.
- Waste Water from Potable Use is being treated by Septic Tank and Soak Pit as per BIS Specification
- The cooling water will be completely recycled and will not be discharged to outside under no circumstances. Periodical discharge or the blow down of the cooling tower will be taken for use in dust suppression.
- Efforts is made to reuse the effluent generated after adequate treatment.
- Runoff water during the rainy season from the surrounding plant area, storage yard will be collected in drains and treated in the Sedimentation Tank before being discharged to outside in case required.
- 01 number of Rainwater harvesting systems with settling pond has been implemented to harvest rainwater and is utilized for sprinkling, plantation.
- Additional Permanent High Pressure Water Sprinkling System will be installed for regular spraying of water on roads to minimize fugitive dust emission.

PART – H

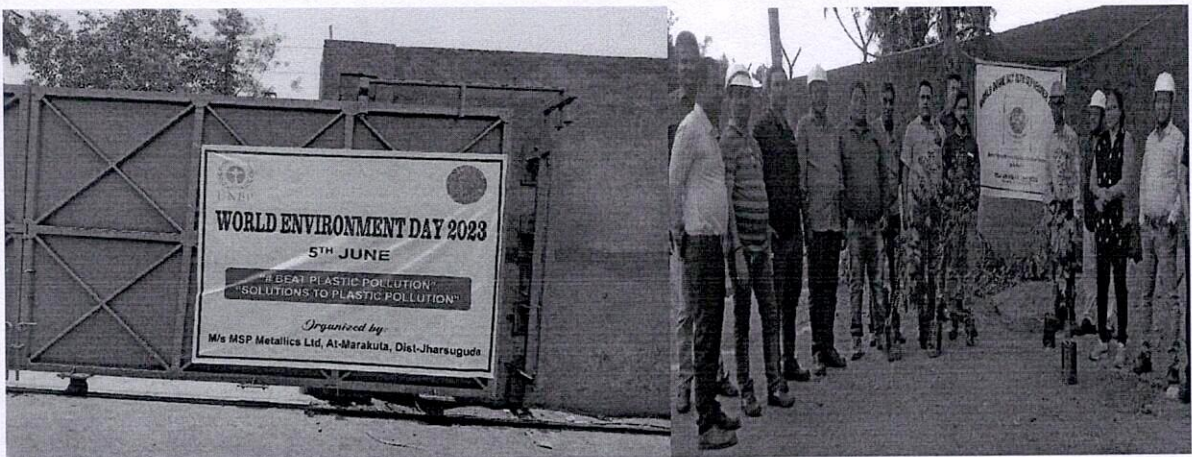
Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution

1. Installation of telescopic chutes at all the silos to control the fugitive emission during discharging of the materials has been completed.
2. Installation of Dry Fog System at ground hoppers to control fugitive emission during charging of the raw materials has been completed.
3. Installation of Sewage Treatment Plant (STP) is under progress for treatment of domestic effluent generated from canteen and office building.
4. The industry has provided mechanized wheel washing systems along with effluent treatment and recycling facilities for the raw material / product / solid waste transport vehicles at the exit point of the industry.
5. Industry has installed HD IP (Internet Protocol) Surveillance cameras.
6. Plantation of 8000 trees is in progress inside the plant.
7. Development of infrastructure for storage of raw material (iron ore) under the shed with mechanized handling facility.

PART – I

Any other particulars for improving the quality of the environment

Celebration of World Environment Day for environmental awareness among employees and contract workmen within the plant premises.



Date: 30/09/2023

Signature of the Owner/Occupier
of the Industry (With seal)

