

JAYASWAL NECO INDUSTRIES LTD

CIN : L28920MH1972PLC016154

(STEEL PLANT DIVISION)

SILTARA GROWTH CENTRE, BILASPUR ROAD, SILTARA, RAIPUR - 493111 (C.G.) - INDIA

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JNIL/ENV/Met25/2023/ 125
Date : 26/09/2023

The Member Secretary,
Chhattisgarh Environment Conservation Board,
Paryavas Bhavan, North Block Sector-19,
Naya Raipur(C.G.) 490099.

Sub : Submission of Environmental Statement in Form-V for the period from 1st April, 2022 to 31st March, 2023 for Metabodeli Iron Ore Mine (25 Ha.), located at village- Metabodeli, Tehsil-Pakhanjur, Distt-Kanker(C.G.).

Sir,

Please find enclosed herewith Environmental Statement in Form-V for the Financial Year 2022-2023 for Metabodeli Iron Ore Mine-(25 Ha.) located at village- Metabodeli, Tehsil-Pakhanjur, Distt-Kanker (Chhattisgarh), as per Rule 14 of the Environment (Protection) Rules, 1986.

This is for your information & record please.

Thanking you,

Yours faithfully,
For Jayaswal Neco Industries Ltd.

Susanta Kumar Moitra
Associate Director

Encl : Environment Statement (Form-V) Period from 1st April-2022 to 31st March-2023.

CC to : The Regional Officer,
Chhattisgarh Environment Conservation Board,
5 & 6 Housing Board Colony, Aghanpur,
Chitrakot Road, Jagdalpur(C.G.)



ENVIRONMENT STATEMENT

FOR

**METABODELI IRON ORE MINE,
(25 Hects.)**

at

**VILLAGE - METABODELI,
TEHSIL - PAKHANJUR,
DISTRICT - KANKER,
CHHATTISGARH.**

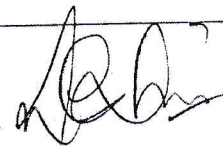
(YEAR 2022 - 2023)



BY

**M/s JAYASWAL NECO INDUSTRIES LIMITED
SILTARA, RAIPUR
(CHHATTISGARH)**

Address - M/s Jayaswal Neco Industries Ltd., Siltara Growth Centre, Siltara, Raipur(C.G.)



FORM V

(See Rule 14)

Environmental Statement for the financial year ending on 31st March 2023**PART A**

(i)	Name and address of the owner/ occupier of the industry operation or process.	:	Shri. Megh Pal Singh, Executive Director & COO M/s Jayaswal Neco Industries Ltd., Siltara Growth Center Siltara, Siltara, Raipur (C.G.)	
(ii)	Industry category Primary	:	Iron Ore mine	
(iii)	Production capacity Iron Ore	:	Iron Ore – 1.0 MTPA	
		:	2021 - 2022	2022 - 2023
		:	9,95,441.00 TPA	9,95,707.00 TPA
(iv)	Year of establishment	:	2002	
(v)	Date of the last environmental Statement submitted.	:	03/09/2022	

PART B**(1) Water consumption M3/d**

(i)	Process	:	33.80
(ii)	Cooling	:	NIL
(iii)	Domestic	:	5.0

(2) Raw material consumption

S.No.	Name of raw materials	Consumption of raw material per unit	
		During the Previous Financial Year 2021-22	During the current Financial year 2022-23
1	Diesel Oil	686618 Litres	666522 Litres
2	Lubrricants	9466 Litres	9939 Litres
3	Grease	3181 Kg	3340 Kg.

PART - C

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

S.No.	Pollution	Quantity of Pollutants Discharged (mass / day)	Concentration of Pollutants in discharges (mass / volume)	Percentage of variation from prescribed standards with reasons
(a)	Water	No effluent is generated as water is used for sprinkling on haul roads for dust suppression only. Not township and permanent office set up at mining site, hence no domestic effluent is generated.	Nil	Nil
(b)	Air	This is an opencast mine and does not have single point source of air pollution. There is DG set in Mine, but it runs only in case of power failure. So, the quantity of air pollutants discharged in kg/day cannot be ascertained. The ambient air quality for 2022-23 is given below:		

(3) Ambient Air Quality – Carried out by NABL accredited lab is tabulated below:-

A) Core Zone Ambient Air Quality Report:-

Location 1 :- Near Security Shed (North)

Sr. No.	Pollutant	Concentration of pollutants in discharges (mass / volume)	% variation from standard*
		Avg.	
1	PM 10	46.1	None
2	PM2.5	34.75	None
3	SO2	7.5	None
4	Nox	12.7	None

Location 2 :- Near Weighbridge (West).

Sr. No	Pollutant	Concentration of pollutants in discharges (mass / volume)	% variation from standard*
		Avg.	
1	PM 10	41.6	None
2	PM2.5	30.9	None
3	SO2	8.9	None
4	Nox	14.65	None

Location 3 :- Near Temporary Store (South).

Sr. No	Pollutant	Concentration of pollutants in discharges (mass / volume)	% variation from standard*
		Avg.	
1	PM 10	48.55	None
2	PM2.5	36.00	None
3	SO2	11.1	None
4	Nox	16.1	None

Location 4 :- Near CAF Camp(East).

Sr. No	Pollutant	Concentration of pollutants in discharges (mass / volume)	% variation from standard*
		Avg.	
1	PM 10	43	None
2	PM2.5	33.15	None
3	SO2	5.8	None
4	Nox	11.8	None

Location 5 :- Metabodeli Village(North) – (Buffer Zone Area)

Sr. No	Pollutant	Concentration of pollutants in discharges (mass / volume)	% variation from standard*
		Avg.	
1	PM 10	49.6	None
2	PM2.5	27.1	None
3	SO2	10.8	None
4	Nox	15.0	None

Location 6:- Chargaon village(East) - (Buffer Zone Area)

Sr. No	Pollutant	Concentration of pollutants in discharges (mass / volume)	% variation from standard*
		Avg.	
1	PM 10	47.4	None
2	PM2.5	26.6	None
3	SO2	10.2	None
4	Nox	14.6	None

Location 7:- Surewahi village(East) - (Buffer Zone Area)

Sr. No	Pollutant	Concentration of pollutants in discharges (mass / volume)	% variation from standard*
		Avg.	
1	PM 10	46.3	None
2	PM2.5	25.8	None
3	SO2	9.7	None
4	Nox	13.7	None

Location 8 :- Sondwapara village(NE) - (Buffer Zone Area)

Sr. No	Pollutant	Concentration of pollutants in discharges (mass / volume)	% variation from standard*
		Avg.	
1	PM 10	45.0	None
2	PM2.5	25.3	None
3	SO2	9.0	None
4	Nox	13.1	None

PART D

Hazardous Wastes

(as specified under Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016)

Sr. No.	Hazardous Wastes	Total Quantity (MT)	
		During the Previous Financial Year 2021-22	During the current financial year 2022-2023
1.	From Process Used Oil/Spent Oil (Used Oil Cat-5.1)	4.437 K.L.	3.155 K.L.
2.	From Pollution Control Facilities	Nil	Nil

PART E

Solid Wastes

Sr. No.	Solid Waste	Total Quantity (MT)	
		During the Previous financial year 2021-2022	During the current financial year 2022-2023
A	From Process	Nil	Nil
1.	Over burden	25,434 Metric Tons.	41,516.64 Metric Tons
2.	Mines Reject	Nil	Nil
B (i)	Quantity recycled or reutilizes within the unit	Nil	Nil
(ii)	Sold	Nil	Nil
(iii)	Disposed Overburden- Stored within ML area.	25,434 Metric Tons.	41,516.64 Metric Tons

PART F

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

Hazardous Wastes	Used Oil	Parameter	Result
		(a) Total Sulphur	0.76%
		(b) Polychlorinated biphenyls (PCBs)	N.D.
		(c) Lead (as Pb)	8.4 ppm
		(d) Arsenic	N.D.
		(e) Polyaromatic Hydrocarbon (PAH)	1.65 %
		(f) Chromium+Cadmium+Nickel	5.7 ppm

- Hazardous wastes- Generated used oil is sent to the authorized recyclers only.
- Solid Wastes - Solid wastes generated in the form of overburden, which is stacked at designated place within mining lease area.

PART – G

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

- Efforts were made to reduce the consumption of lubricant oil used in Heavy mining equipment's by timely maintenance, arresting leakages and eliminating spillages. Similarly, attempts were also made to reduce the consumption of electricity in operations.

- Water spraying on mine haul ways by water tankers has reduced the dust levels in the ambient air.
- Construction of Garland drain constructed to arrest silt within the mining lease area.
- De-silting of all check dams done.
- Saplings were planted for green belt developments.
- To create awareness among the employees about environment, World Environment Day was celebrated at Metabodeli, Kanker.
- Environment Management Department is in function to manage regular environmental monitoring jobs and to ensure operation of environmental safeguards.
- The Ground vibration study carried out in the core zone and buffer zone area.
- The above abatement measures have resulted in improvement of air and water quality, reduction in noise exposure, greenery and aesthetics in the mine.

DETAILS OF CSR EXPENSES ON ENVIRONMENT ACTIVITIES FOR THE YEAR 2022-2023

Sr. No.	Description	Expenses (in Rs.)
1	Health care, sanitation and providing drinking water.	35,78,328.86
2	Promotion of Education and Training.	5,51,865.31
3	Sports Activities	6,41,273.00
4	Promotion and development of traditional Art, Culture & Community Welfare.	2,95,986.98
5	Women Empowerment	1,30,665.68
6	Rural & Infrastructure Development Projects.	64,19,886.76
Total (in Rs.)		1,16,18,006.59

PART H

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

1	Development of nursery and its maintenance. Cleaning of garland drain and check dam & Plantation.	Rs.23,49,072.50
2.	Water sprinkling on approach road/haul road to control/minimize the fugitive emission.	
3.	Environment monitoring (Air Quality, Water Quality, Noise Level etc.) by NABL Accredited Lab.	
Total		Rs.23,49,072.50

PART I

Any other particulars for improving the quality of the environment.

1. To create awareness among the employees by imparting training on environment issues.
2. World Environment Day Celebration, 2022 in near Chargaon Village by M/s Jayaswal Neco Ind. Ltd. (Metabodeli Iron Ore Mine-25 Ha.).
3. World Ozone Day Celebration – 2022 was “Montreal Protocol@35: Global Cooperation Protecting Life on Earth” given for Worldwide Celebration by M/s Jayaswal Neco Industries Ltd. (Metabodeli Iron Ore Mine-25 Ha.).

