BALMUKUND
SPONGE & IRON PVT. LTD.
(M E G A D V N .)
HEAD OFFICE : NEAR VISHWANATH NURSING HOME
BAJRANG CHOWK, AT-BARMASIA, DIST/PO.: GIRIDIH-815301
PHONE : 06532-250597
E-mail : balmukundsponge@gmail.com
Website : www.balmukund.com
CIN : U27310WB1999PTC266185

1st May, 2024

The Member Secretary,
Jharkhand State Pollution Control Board,
T.A. Division Building,
H.E.C. Complex, Dhurwa,
Ranchi (Jharkhand)-834004

Sub: **Submission of Environmental Statement for the Financial Year : 2023-24**

Sir,

We are submitting hereto attached Environmental Statement (Form V) for the Financial Year 2023-24 for your needful.

Thanking you,
Yours faithfully,
For **Balmukund Sponge & Iron Pvt. Ltd.**
(Mega Div.)

Santosh Kumar

Manager

Balmukund Sponge & Iron (P) Ltd.

Encl: As above.

Environment Statement for the Financial Year ending the 31st March, 2024

PART - A

1) Name & Address of the owner/occupier of the industry operation or process : **Om Prakash Agrawal**
Balmukund Sponge & Iron Pvt.Ltd.(Mega Divn.)
Chatro,Tundi Road, Giridih.

2) Industry category-Primary,Secondary (STC Code): Primary

3) Production Capacity – Unit

: TMT Rod	-	746 MT per day
M.S. Billet	-	828 MT per day
Indn.Furn.Slag Grinding	-	47000 TPA
Pig Iron	-	110 MT per day
Iron Ore (Beneficiated)	-	94000 TPA

4) Year of Establishment

: TMT Rod	-	22.12.2021
M.S. Billet	-	22.12.2021
Indn.Furn.Slag Grinding	-	01.01.2022
Pig Iron	-	14.11.2010
Iron Ore (Beneficiated)	-	20.01.2016

5) Date of the last environmental statement submitted : 11.05.2023

PART - B

6) Water & Raw Material Consumption:
Water Consumption cub.m/day :
Process : 0.000 KL (Washing of Low Grade Iron Ore)
Cooling : 35.000 KL per day
Domestic : 12.000 KL per day

Name of Products	Process water consumption per unit of product out-put	
	During the previous Financial Year	During the current Financial Year
1. M.S. Billet	-	-
2. M.S./TMT Rod	-	-
3. Pig Iron	-	-
4. Iron Ore (Beneficiated)	0	0

7) Raw Material Consumption

Name of Raw Material	Name of Products	Raw material consumption per unit of product out-put	
		During the previous Financial Year(MT)	During the current Financial Year(MT)
1. Sponge Iron	M.S. Billet	0.950	0.889
2. Scrap of Iron & Steel		0.016	0.078
3. Pig Iron		0.136	0.191
4. Silico Manganese		0.013	0.014
5. Carbon Fines/CPC		0.001	0.000
1. M.S. Ingot/Billet	TMT Rod	1.005	1.005
2. Furnace Oil(KL)		0.000	0.000
1. Iron Ore	Pig Iron	1.100	1.696
2. Hard Coke		0.992	0.838
3. Dolomite/Quartz		0.336	0.230
4. Lime Stone		0.312	0.230
5. Iron Pellet		0.524	0.042
6. Iron Ore Fines		0.000	0.105

Raw Material Consumption

Name of Raw Material	Name of Products	Raw material consumption per unit of product out-put	
		During the previous Financial Year(MT)	During the current Financial Year(MT)
1. Low Grade Iron Ore	Beneficiated Iron Ore	1.343	1.315
2. Induction Slag	Iron Metal	0.00	12.52

PART – C

Pollution discharge to environment/out-put (Parameter as specified in the consent issued)

Pollutants	Quantity of Pollution Generated (Mass/day)	Conc. Of pollutants In discharge (Mass/ Volume)	Percentage of form prescribed with reason
a) Water	: No water discharge out of premises. So no water pollution.		
b) Air	: Test reports submitted (found under limit of prescribed parameters).		

PART – D

Hazardous Waste

(As specified Hazardous Waste (Management and Handling Rule, 1989)

Hazardous Waste	Total Quantity (Kg/Ltr)	
	During the previous Financial year(Liter)	During the Current Financial Year(Liter)
From Process	-	-
From pollution control facilities(sold)	-	-
Other (Burnt Mobil Oil)	415	410

PART – E

Solid Waste

Solid Waste	Total Quantity (Kg)	
	During the previous Financial year	During the Current Financial Year
a) From Process		
i) From Induction unit – Slag	21555640*	19751735*
ii) From MBF unit – Slag	7905331	7743454
iii) Beneficiation of Iron Ore(Soil)	0**	0**
b) From Pollution Control facilities	9479	9296
c) Quantity recycled or re-utilized		
1)Sold -MBF unit(Pig) Slag	Sold-7159520	Sold-8489265
2)From Pollution Control facilities(Pig)	Reused in MBF-9479	Reused in MBF-9296
a) Disposal Induction slag	Crushing-22498390 Kg; C/B-15073725 Kg*. Waste/Dust 20691790 Kg Given Free of cost to brick manufacturers.	Crushing-12591790 Kg; Used in land filling within premises-12772430 Kg, C/B-9461240 Kg*. Crushing Waste/Dust 11586330 Kg Given Free of cost to brick manufacturers
Washing Salary- to brick manufacturer	0	0

PART – F

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

We have installed 2 Induction Slag grinding units for iron metal segregation. Iron metal segregated is reused in induction furnaces as raw material and solid waste/dust obtained after segregation of iron metal is given to brick manufacturers free of cost. Solid Waste from MBF unit is being sold to cement manufacturers directly or through its suppliers and transported in eco-friendly safe manner in tightly covered trucks. During this whole year our low grade iron ore washing unit is non-operational. Mill skull generated during manufacturing of M.S/TMT Rod is reused in induction furnaces as raw material. Hazardous waste (Burnt Mobil Oil) is stored within the premises safely in appropriate drums and reused in smoothening the machinery within the premises for smooth running of the plant.

PART – G

Impact of pollution control measures on conservation of natural resources and consequently on the cost of production

Impact of pollution control measures on conservation of natural resources is positive. Cost of production gets some hike causing reduction in profit ratio.

PART – H

Additional investment proposal for environment protection including abatement of pollution:

Already implemented :

1) Gas Cleaning Plant (GCP) has been provided to MBF unit.
2) Fume Extraction Systems have been provided to Induction Furnace unit.
3) Online Stake Emission monitoring facility to stakes of appropriate heights with PM_{10}, CO, SO_2, NOx Analyzer and dust concentration monitoring with 24x7 days connectivity to JSPCB and CPCB servers have been provided for both the above units.
4) Sufficient Bag Filters at required places have been provided.
5) Dry Fog Systems at required places have been provided.
6) Settling tank for collection of after use water in Iron Ore Beneficiation (washing unit) has been provided.
7) Water used in cooling of hot products are kept in closed circuit for reuse again and again.
8) Water settling tank followed by soak-pits for collection of domestic waste water has been provided.
9) Online dust monitoring system for AAQ PM monitoring with 24x7 days connectivity to JSPCB and CPCB servers has been provided with a display board at factory premises main gate in public domain.
10) Water flow meter with camera are installed and is 24x7 days connected online to JSPCB & CPCB server to monitor.
11) Monitoring of AAQ within the premises, stack dust concentration, Fugitive Emission, Domestic Waste Water, Noise Level are also done quarterly by NABL laboratory.
12) Rolling Mill unit has been integrated to M.S. Billet unit by installing covered metal conveyor for easy feeding of M.S. Billet to Rolling mill.

The additional measure will be adopted after study and on advice of the Jharkhand State Pollution Control Board/MoEF/CPCB.

PART – I

Any other particulars in respect of environment protection of environment and abatement of pollution :

Besides operating facilities as above in Part-H, huge Plantation has been done around the factory premises. Concrete road constructed, Fixed water sprinklers have been provided by the side of concrete roads within premises. Manual water sprinklers have also been provided wherever fixed water sprinklers are found difficult to work. Manual water sprinklers are also made available for water sprinkling on approach roads to factory premise for dust suppression and to minimize the dust spread around boundary of factory premise.

For **Balmukund Sponge & Iron Pvt. Ltd.**
(Mega Division)

Balmukund Sponge & Iron (P) Ltd.

Manager