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SMEL/ENV/SPCB/2024/30

Date: 28.09.2024

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

Subject: Submission of Environmental Statement report for the year 2023 - 24.

Dear Sir,

With reference to the subject cited above, we are submitting herewith the Environmental Statement for the Financial Year 2023 - 24.

This is for your kind information and needful action.

PANDLO

Thanking you Yours faithfully

For Shyam Metalics & Energy Ltd.

(DIRECTOR)

Encl: As above

CC 46: Prie Regional Officer, State Pollution Control Board, Sambalpur, Odisha.









#### SHYAM METALICS AND ENERGY LIMITED

REG. OFFICE: Trinity Tower. 7th Floor, 83, Topsia Road, Kolkata - 700 046, West Bengal, CIN: L40109WB2002PLC095491 GSTIN: 19AAHCS5842A2ZD SALES & MARKETING OFFICE: Viswakarma Building, North West Block, 1st, 2nd & 3rd Floor, 86C, Topsia Road, Kolkata - 700 046 T; +91 33 4016 4001 F: +91 33 4016 4025 Email: contact@shyamgroup.com Web: www.shyammetalics.com Follow us on: 🛐 🔘 🔽 🛅

#### **ENVIRONMENTAL STATEMENTS**

#### FORM - V

#### (See Rule 14)

The ministry of Environment and Forest vide its notification dated March, 1992 directed all industries which need to have consent under water (Prevention and Control of Pollution) 1974 and Air (Prevention and Control of Pollution) 1981 to file the Environmental Statement every year. This is to be filed for the period ending March by September Every year. The format for the same is as follows:

Environmental Statement for the financial year ending the 31st March 2024, on Dt. 28.09.2024

#### PART - A

- (i) Name and address of the owner / occupier of the industry operation or process. M/s Shyam Metalics and Energy Ltd. Pondloi, Sambalpur.
- (ii) Industry category Primary (STC code)

Secondary - (SIC Code)

(iii) Production capacity – Units.

Integrated Steel Plant 1.44 Millon Tons Per Annum.

(iv) Year of establishment.

01.09.2006

(v) Date of the last environmental statement submitted. 28.09.2023

#### PART - B

(i) Water and Raw Materials Consumption

**Process** 

Cooling

Domestic

SEPARATE SHEET ATTACHED AS ANNEXURE – I

Name of Product	Process Water Consumption Per Unit of Product Ou SEPARATE SHEET ATTACHED AS ANNEXUR					
	During the Previous Financial Year	During the Cu	During the Current Financial Year			
(1)	2					
(2)						
(3)	Paul Matarial Committee		-			
(ii)	Raw Materials Consumption  SEPARATE SHEET ATTACHED AS ANNEXUR.	E - III				
Name of Raw Materials	Name of Products	Consumption of Materials Per U				
		During the previous financial year	During the Current Financial Year			

Polluting industry may use codes if disclosing details of raw materials would violate Contractual obligations, otherwise all industries have to name the raw material used.

#### PART-C

Discharged to environment / unit of output specified f the consentissued.

Pollu	tants	Quantity of Pollutants Discharged (Mass/Day)	Concentration of Pollution In Discharges (Mass / Volume)	Preventive of Variation From Prescribed Standard With		
(a)	Water	NIL	NIL	NIL		
(b)	Air	NIL	NIL	NIL		

#### PART - D

#### **HAZARDOUS WASTAGES**

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

Hazardous Waste	Total Quantity (Kg)					
	During the Previous Financial Year	During the Current Financial Year				
(a) From Process						
(b) From Pollution Control Facilities						

SEPARATE SHEET ATTACHED AS ANNEXURE - IV

#### Solid Waste

		Total Q	Quantity
		During the Previous Financial Year	During the Current Financial Year
(a)	From Process		
(b)	From Pollution Control Facility		QN . 1 ,821,8 %
(c)	(1) Quantity recycled or reutilized within the unit		
	(2) Sold		
	(3) disposed		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

SEPARATE SHEET ATTACHED AS ANNEXURE – V 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 the categories of Wastes.

- Fly ash- dry disposal system has been adopted. All the fly ash generated after making the fly ash bricks for factory internal use are being used in Low lying area filling.
- SMS Solid Waste SMS solid waste are being used after removal of Iron particles in the Road Making / Raw material yard bed preparation.
- Ferro Solid Waste- Ferro Slags are being reused in the furnaces after removal of unused part. Waste slags are dumped into the identified dumping yard and used in road making.

#### PART - G

In respect of the pollution abatement measures taken up on conservation of natural Resources and on the cost of production.

- All the waste like char generated from DRI Kiln, rejects from Coal Washery like Middling and belt Press are being reused in AFBC Boiler as fuels.
- Effluent is treated in ETP of 7000 KLD capacity and treated waste water is reused in the process.

#### PART - H

Additional measures/ investment proposal for environment protection including abatement of pollution prevention of pollution.

- Total 18062 nos. of saplings have been planted inside the plant premises during the year 2023-24.

#### Part - I

Any other particular for improving the quality of the environment.



Annexure – I

### M/S SHYAM METALICS AND ENERGY LTD.SAMBALPUR

## Month Wise Water Consumption Details For The Year 2023-24

	TOTAL	PROCESS V	NATER	COOLING	WATER	DRINKING	WATER
MONTH	QUANTITY (M³/MONTH)	M³/MONTH	M³/DAY	M³/MONTH	M³/DAY	M³/MONTH	M³/DAY
APR-23	686550	164772	5492.4	514912.5	17163.75	6865.5	228.8
MAY-23	805868	193408.3	6446.944	604401	20146.7	8058.68	268.62
JUN-23	293575	70458	2348.6	220181.3	7339.375	2935.75	97.858
JUL-23	928561	222854.6	7428.488	696420.8	23214.025	9285.61	309.52
AUG-23	929141	222993.8	7433.128	696855.8	23228.525	9291.41	309.71
SEPT-23	300815	72195.6	2406.52	225611.3	7520.375	3008.15	100.27
OCT-23	923238	221577.1	7385.904	692428.5	23080.95	9232.38	307.7
NOV-23	891070	213856.8	7128.56	668302.5	22276.75	8910.7	297.02
DEC-23	924346	221843	7394.768	693259.5	23108.65	9243.46	308.1
JAN-24	680439	163305.4	5443.512	510329.3	17010.975	6804.39	226.8
FEB-24	866284	207908.2	6930.272	649713	21657.1	8662.84	288.70
MAR-24	928636	222872.6	7429.088	696477	23215.9	9286.36	309.5



#### Annexure - II

# SHYAM METALICS AND ENERGY LTD. SAMBALPUR Water consumption per Unit of Product

		Financial Y	ear 2022-23	Financial Year 2023-24			
SI. No.	Products	Yearly Production MT	Water Consumption M3/MT	Yearly Production MT	Water Consumption M3/MT		
1	Sponge Iron	954412.284	0.51	1113106	0.42		
2	Coal Washery	0 ,	0	0	0		
3	Power (MW)	367569.29	3.48	303822.1	3.27		
4	SMS (Billets)	676671.52	0.55	788642.901	0.68		
5	Rolling Mill(TMT Bar)	230065.973	0.44	279874.875	0.42		
6	Ferro Alloys	92022.839	2.29	84192	2.35		
7	Pelletisation Plant	1391067	0.16	1951880	0.18		
9	Wire Rods	228813	0.41	286252.902	0.34		

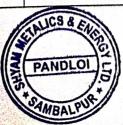


# SHYAM METALICS AND ENERGY LTD. SAMBALPUR

## **Details of Raw Materials Consumption**

	Υ	EAR 2022-23				
PRODUCT	PRODUCTION FOR THE YEAR 2022-23(MT)		TOTAL RAW MATERIAL CONSUMED (MT)			
		Iron ore/ Fines	888049.930	0.93		
Sponge iron	954412.284	Iron Pellets	650566.848	0.68		
		Coal	1046513.581	1.10		
M.S. billets	II/TMT 230065.973 M.S.Billets 242996.929		804607.666	1.19		
Rolling Mill/TMT bars			1.06			
Ferro alloys (Silicomang., ferro chrome, ferro mang)	92022.839	Mn ore, coal, coke, quartz and others	361935.452	3.93		
Wire Rod 228813.011		M.S.Billets	236243.962	1.03		
Iron pellets	1391067	Iron ore fines	1600437.609	1.15		

	Υ	EAR 2023-24			
PRODUCT	PRODUCTION FOR THE YEAR 2023-24(MT)	TOTAL RAW MATI	CONSUMPTION PER MT OUTPUT		
		Iron ore/ Fines	475342.490	1.20	
Sponge iron	1113106.000	Iron Pellets	1220085.29	1.70	
25-103		Coal	2076945.965	1.86	
M.S. billets	lets 788642.901 Sponge iron and others		930975.410	1.18	
Rolling Mill/TMT bars	279874.875	M.S.Billets	292602.218	1.06	
Ferro alloys (Silicomang., ferro chrome, ferro mang)	75368.330	Mn ore, coal, coke, quartz and others	319324.910	3.79	
Wire Rod	286252.902	M.S.Billets	297665.630	1.04	
Iron pellets	1951880.000	Iron ore fines	2236968.950	1.15	



# SHYAM METALICS AND ENERGY LTD. SAMBALPUR Details of Hazardous Waste Generation and Disposal During The Year 2023-24

Sl.No.	Hazardous waste	Physical form	Quantity Generated (2023-24)	Quantity dispatched to Disposal Facility/Recycler	Quantity used in house	Quantity in Storage	Storage facility/ Remarks
 1.	Used Oil	Liquid	4.4 T	4.6 T		0	Stored in container under covered shed. & total 4.8 T sold to Authorized recycler.
2.	Waste containing oil	Solid	0.5 T	0.56 T		0	Stored in container under covered shed prior to disposal.
3.	Spent resin	Solid	0.8 T	_	0.65	0.15	Stored in container under covered shed prior to co-incinerate in Captive Coal based power Plant for energy recovery.
4.	Discarded Containers	Solid	7 T	2.2 T	4.8	0.4 T	Kept under the shed for storage of used oil & waste containing oil and disposed along with. Others are being reused in the plant premise.
5.	Tarry Residue	Semi- Solid	0.9 T	0.9 T		0	Stored in container under covered shed prior to disposal.



		٧	ASTE GENI	ERATION ANI	D ITS UTILIS	SATION				An	nexure -
WIRE ROD MILL											
SI. No.	Name of the Project.	No. of units	Year	Total capacity(TPA)	Billets (MT)	Productio n(MT)		Generation ( Mill scale (MT)	Total Missroll and mill scale (MT)	Used in RCC Road bed & PCC Floor	Furnace MT)
1	Shyam Metalics & Energy Ltd.	WRM	2022-23	400000	236243.962	228813	1950.29	2330	4280.29	0	4280.2
	2X200000 TPA 20	2023-24	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	294840.59	286252.9	2290.02	2914.91	5204.93	0	5204.	

		SI		ion and Its U IS DIVISION	tilization					
SI. No.	No. of units	Year Total capacity		Sponge Iron,Pig Iron scrap,Miss roll	Production	n Slag Generation (in MT)			Used in RCC Road bed & PCC Floor work	Reuse in Furnace
				МТ	МТ	Slag (MT)	Iron particle recover from slag	Total Slag generated (MT)	мт	мт
1	SMS 4X18 T/H, 4X8 T/H, 4X12 T/H, 4 X 18 T/H Induction Furnaces	2022-23	314 T/H	818773	676672	140829	22926	117903	117903	22926
2	SMS 4X18 T/H, 4X8 T/H, 4X12 T/H, 4 X 18 T/H &5 X 18 T/H Induction Furnaces	2023-24	404 T/H	954257.76	788642.901	164132	26719	137413	137413	26719

	WASTE GENERATION AND ITS UTILISATION												
	ROLLING MILL												
SI. No.	Name of the Project.	No. of units	Year	Total capacity	Billets	Producti on	Waste Generation (in MT)		Used in RCC Road bed & PCC Floor work	Reuse in Furnace			
					MT	МТ	Miss roll (MT)	Mill scale (MT)	Total Missroll and mill scale (MT)	MT	MT		
L		ROLLING	2022-23	ROLLING	242996.93	230066	2649.905	2946.209	5596.11	0	5596.11		
1	Shyam Metalics & Energy Ltd.		2023-24	MILL/TMT		279874.9	3223.61	3584.05	6807.66		6807.66		

		S	HYAM METAL	ICS AND ENR	GY LTD. SAME	ALPUR					
			SLAG GENE	FERRO ALL	ITS UTILISATI	UN					
SI. No.	Name of the Project.	No. of units	Year	Total capacity	Mg ore, Dolomite, Quartz	Producti on MT	Slag Generation (in MT)			Used in RCC Road bed & PCC Floor work	Reuse in Furnace
							Slag ( MT)	Ferro recover from Slag (MT)	Total Slag generated (MT)		MT
1		FERRO (2X9,2X6,3X 11 & 1X5) MVA	2022-2023	68 MVA	361935.45	92022.84	97442.25	2182.09	95260.21	95260.21	2182.09
2	Shyam Metalics & Energy Ltd.		2023-2024	68 MVA	331135.4	84192	88401.6	1979.64	86421,96	86421.96	1979.64

			A A POLICE			200				An	nexure - \
		1.494	M/s Shar	ym Metalics a	nd Energy	Ltd.	- F				
		Section	Fly Ash G	eneration an	d its Utilizat	ion	the first				
		100000	1.04 Mar.	POWER PL	ANT	A THE COLLEGE	MAYELS				
SI. No.	Name of the Project.	o, of units(MV Year		Total capacity(MW)	Coal/Lignite Consumptio n (MT)		Ash Generation (In MT)			LOW LYING AREA FILLING	Bricks Manufac ureing (MT)
	Shyam Metalics & Energy Ltd.	169	2022-23	169	1.75	40,441,0	Bottom Ash	Fly Ash	Total Ash	74.4	
1					980654	367569.3	3435.88	183019.4	186455.58	169499.6	18645.
		169	2023-24	169	829081	303822.1	3164.69	149839.06	153003.75	135465.8	17538.3

