



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000034549

Submitted Date

31-08-2021

PART A

Company Information

Company Name

Steel Authority of India limited,
Chandrapur Ferro Alloy plant,Chandrapur

Application UAN number

MPCB-CONSENT-000008859

Address

MUL ROAD

Plot no

498/2,499,500,503/2

Taluka

CHANDRAPUR

Village

CHANDRAPUR

Capital Investment (In lakhs)

31761

Scale

L.S.I.

City

CHANDRAPUR

Pincode

442401

Person Name

N.L.SHARMA

Designation

CGM(WORKS)

Telephone Number

09420479413

Fax Number

07171-278038,278002

Email

rajesh.janbandhu@yahoo.com

Region

SRO-Chandrapur

Industry Category

Orange

Industry Type

O63 Steel and steel products using various furnaces like blast furnace /open hearth furnace/induction furnace/arc furnace/submerged arc furnace / basic oxygen furnace /hot rolling reheated furnace

Last Environmental statement submitted online

yes

Consent Number

BO/CAC-Cell/UAN No
000008859-18/CO/12 th
CAC-1905000074

Consent Issue Date

2-05-2019

Consent Valid Upto

31/3/2021

Establishment Year

1974

Date of last environment statement submitted

Mar 13 2021 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

063

Product Information

Product Name

Lime

Consent Quantity

1980

Actual Quantity

30

MT/A

Nitrogen gas

600

265

CMD

High carbon Ferro Manganeses

96660

0

MT/A

Silico Manganese	80540	79378	MT/A
Medium Carbon Ferro Manganeses	2400	1228	MT/A
Mn Ore Sinter from SP-1	17040	5985	MT/A
Mn Ore Sinter from SP-II	16020	2544	MT/A
Electric power Generation	36792	0	Mwh

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
Furnace Gas	456000	200640	CMD
High MnO Slag	98880	0	MT/A
Low MnO Slag	72480	74053	MT/A

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	7100	1968
Domestic	235	197
All others	130	0
Total	8305	2559

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade effluent	860	860	CMD
Domestic effluent	168	95	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
High Carbon Ferro Manganese	0	0	KL/A
Silico Manganese	0	0	KL/A
Medium Carbon Ferro Manganese	0	0	KL/A

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Manganese ore	108229	171991	MT/A
Iron ore	780	2987	MT/A
Quartz	1722	5726	MT/A
Dolomite	4667	5200	MT/A
Limestone	0	256	MT/A
Charcoal	4693	5999	MT/A
Coke	30437	50628	MT/A
Mn Ore Sinter	7352	8308	MT/A

MnO slag	49020	64589	MT/A
Carbon electrode Paste	1453	1777	MT/A
Roasted Mn ore	2694	1843	MT/A
Calcined lime	629	472	MT/A
Graphite electrode	29	22.414	MT/A
Calcined dolomite	322	339	MT/A

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Electricity - For Submerged Arc Furnaces	594417	337989	Mwh
Clean SAF Gas for SP-1	216000	97076	
Clean SAF Gas for SP-2	72000	30240	
Clean SAF Gas for Power Plant 4.2MW	5760000	0	
Furnace oil for Power Plant 4.2MW	200	0	KL/A
Clean SAF Gas for Lime kiln 7 tpd	144000	144000	
Clean SAF Gas for Lime kiln 4tpd	144000	144000	

Part-C

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

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
pH	0	7.68	0	5.5-9	NIL
Oil & grease	3.44 Kg/Day	< 4	0	10 mg/litre l	NIL
BOD	63.64 Kg/Day	74	0	100 mg/litre	NIL
TDS	1510 Kg/Day	1756	0	2100 mg/litre	NIL
Suspended solids	35.26 Kg/Day	41	0	100 mg/litre	NIL
COD	186.62 Kg/Day	217	0	250 mg/litre	NIL
Chloride	33.11 Kg/Day	38.51	0	600 mg/litre	NIL
Sulphate	23.61 Kg/Day	27.46	0	1000 mg/litre	NIL
Iron	0.14 Kg/Day	0.17	0	5.0 mg/litre	NIL

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
Particulate matter	21 kg/day	76.4	0	150	NIL
Acid mist	0.31 kg/day	1.14	0	35	NIL

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	6.7	6.2	KL/A
Other Hazardous Waste	0.23	0.017	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.1 Exhaust Air or Gas cleaning residue	4730	6235	MT/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
High Carbon Ferro manganese slag	0	0	MT/A
Silico Manganese Slag	54200	74053	MT/A
Medium carbon Ferro manganese slag	5058	3533	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
GCP Residue	4730	6235	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.1 Exhaust Air or Gas cleaning residue	4730	6235	MT/A

Part-F

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

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	6.2	KL/A	It is sold to authorized re processor.
35.1 Exhaust Air or Gas cleaning residue	6235	MT/A	100 % agglomerated in existing Sinter plants for utilization in furnace for ferro alloy production
Other Hazardous Waste	0.017	MT/A	CHWTSDF Butibori -Mixed non ferrous scrap -

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
MnO slag + MCFeMn slag	64589	MT/A	Used in SiMn production .

Part-G

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

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
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Effluent recycle and reuse	860	NA	NA	NA	Existing facilities	NA
Use of Sinter produced from Mn ore fines and GCP residue	NA	NA	8529000	NA	Existing practice	NA
Use of MnO slag + MCFeMn slag	NA	NA	64589000	NA	Existing practice	NA

Part-H

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

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Installation of Brick/block making machine	Reuse and recycle of Mn ore fines/slag fines/sludge fines etc etc	28.45 lakhs +GST

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Data Connectivity of online PM monitors with MPCB server at SAF III	To get real time data transferred to MPCB server	2.72 lakhs
Data Connectivity of online Effluent monitors with MPCB server for ETP-I,II	To get real time data transferred to MPCB server	29 lakhs
Up gradation of APC of Sinter plants	To achieve revised PM norms	Consultant being engaged

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Briquetting of Mn ore fines/slag fines is being explored for revamping reuse /recycle of solid waste as a measure for resource conservation . This will be in addition to existing sintering facility

Name & Designation

N. L. Sharma CGM (Works)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000034549

Submitted On:

31-08-2021