



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2025

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000086844

### Submitted Date

27-09-2025

## PART A

### Company Information

#### Company Name

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

#### Application UAN number

100005853010

#### 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

RAJESH D GAIKWAD

#### Designation

CGM(WORKS)

#### Telephone Number

09420479413

#### Fax Number

07172278038

#### Email

rajesh.janbandhu@yahoo.com

#### Region

SRO-Chandrapur

#### Industry Category

RED

#### 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

RED/L.S.I (R53) No:- Format1.0/CAC/UAN  
No.MPCBConsent-  
0000183720/CR/2411000870

#### Consent Issue Date

2022-06-19

#### Consent Valid Upto

2024-12-31

#### Establishment Year

1974

#### Date of last environment statement submitted

Sep 18 2024 12:00:00:000AM

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

### Product Information

#### Product Name

High carbon ferro manganese

#### Consent Quantity

96660

#### Actual Quantity

0

#### UOM

MT/A

Silico manganese

80540

91575

MT/A

Medium carbon ferro manganese

200

131.8

|                               |       |      |     |
|-------------------------------|-------|------|-----|
| Manganese ore sinter at SP-I  | 1170  | 0    |     |
| Manganese ore sinter at SP-II | 1335  | 0    |     |
| Power generation              | 36792 | 0    | Mwh |
| Nitrogen Gas                  | 1800  | 1350 | CMD |

**By-product Information**

| <b>By Product Name</b>             | <b>Consent Quantity</b> | <b>Actual Quantity</b> | <b>UOM</b> |
|------------------------------------|-------------------------|------------------------|------------|
| Furnace Gas                        | 456000                  | 232560                 | CMD        |
| High MnO slag (Fe, Mn slag)        | 8240                    | 0                      |            |
| MnO slag (Fe, Mn slag)             | 6040                    | 3530.87                |            |
| Low MnO slag (Fe, Mn slag)         | 6040                    | 3530.87                |            |
| Medium carbon ferro manganese slag | 500                     | 531                    |            |

**Part-B (Water & Raw Material Consumption)**

**1) Water Consumption in m3/day**

| <b>Water Consumption for Process</b> | <b>Consent Quantity in m3/day</b> | <b>Actual Quantity in m3/day</b> |  |
|--------------------------------------|-----------------------------------|----------------------------------|--|
|                                      | 840.00                            | 392.84                           |  |
| <b>Cooling</b>                       | 7100.00                           | 3320.45                          |  |
| <b>Domestic</b>                      | 235.00                            | 109.00                           |  |
| <b>All others</b>                    | 130.00                            | 60.79                            |  |
| <b>Total</b>                         | 8305.00                           | 3883.08                          |  |

**2) Effluent Generation in CMD / MLD**

| <b>Particulars</b> | <b>Consent Quantity</b> | <b>Actual Quantity</b> | <b>UOM</b> |
|--------------------|-------------------------|------------------------|------------|
| Trade effluent     | 860                     | 860                    | CMD        |
| Domestic effluent  | 144                     | 98                     | CMD        |

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

| <b>Name of Products (Production)</b> | <b>During the Previous financial Year</b> | <b>During the current Financial year</b> | <b>UOM</b> |
|--------------------------------------|-------------------------------------------|------------------------------------------|------------|
| 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)**

| <b>Name of Raw Materials</b> | <b>During the Previous financial Year</b> | <b>During the current Financial year</b> | <b>UOM</b> |
|------------------------------|-------------------------------------------|------------------------------------------|------------|
| Manganese ore                | 194553                                    | 215272.061                               | MT/A       |
| Iron ore                     | 6361                                      | 7533.200                                 | MT/A       |
| Quartz                       | 7765                                      | 6515.090                                 | MT/A       |
| Dolomite                     | 8543                                      | 12336.010                                | MT/A       |
| Charcoal                     | 505                                       | 0                                        | MT/A       |
| Coke                         | 53337                                     | 58841.887                                | MT/A       |
| Mn Ore Sinter                | 271                                       | 176.540                                  | MT/A       |

|                        |       |           |      |
|------------------------|-------|-----------|------|
| MnO slag               | 71475 | 11607.650 | MT/A |
| Carbon electrode Paste | 2247  | 2805.900  | MT/A |
| Calcined lime          | 757   | 919.770   | MT/A |
| Graphite electrode     | 40.32 | 30.736    | MT/A |
| Calcined dolomite      | 819   | 794.663   | MT/A |
| GCP Sludge             | 179   | 535.530   | MT/A |
| Roasted MN ore         | 2527  | 2741.790  | MT/A |

4) Fuel Consumption

| Fuel Name                                | Consent quantity | Actual Quantity | UOM      |
|------------------------------------------|------------------|-----------------|----------|
| Electricity - For Submerged Arc Furnaces | 594417           | 386763          | Mwh      |
| Clean SAF Gas for SP-1                   | 216000           | 0               | M3/Month |
| Clean SAF Gas for SP-2                   | 72000            | 0               | M3/Month |
| Clean SAF Gas for Power Plant 4.2MW      | 5760000          | 0               | M3/Month |
| Furnace oil for Power Plant 4.2MW        | 200              | 0               | KL/A     |
| Clean SAF Gas for Country kiln I         | 144000           | 96480           | M3/Month |
| Clean SAF Gas for Country kiln II        | 144000           | 96486           | M3/Month |
| ELECTRICITY FOR 1MVA EAF                 | 4656             | 3278.043        | M3/Month |

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 |               |        |
|-------------------|--------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|---------------|--------|
|                   | Quantity                                   | Concentration                                                        | %variation                                                     | Standard      | Reason |
| pH                | 0                                          | 8.05                                                                 | 0                                                              | 6 to 8.5      | NIL    |
| Oil & grease      | 0                                          | 0                                                                    | 0                                                              | 10 mg/litre l | NIL    |
| BOD               | 22.96                                      | 26.4                                                                 | 0                                                              | 30 mg/litre   | NIL    |
| TDS               | 1420                                       | 1710                                                                 | 0                                                              | 2100 mg/litre | NIL    |
| Suspended solids  | 54.18                                      | 85                                                                   | 0                                                              | 100 mg/litre  | NIL    |
| COD               | 122                                        | 162                                                                  | 0                                                              | 250 mg/litre  | NIL    |
| Chloride          | 71.29                                      | 120                                                                  | 0                                                              | 600 mg/litre  | NIL    |
| Sulphate          | 246                                        | 101                                                                  | 0                                                              | 1000 mg/litre | NIL    |
| Iron              | 0.41                                       | 0.83                                                                 | 0                                                              | 5.0 mg/litre  | NIL    |
| Iron              | 0.41                                       | 0.48                                                                 | 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 |          |        |
|--------------------|--------------------------------------------|------------------------------------------------|----------------------------------------------------------------|----------|--------|
|                    | Quantity                                   | Concentration                                  | %variation                                                     | Standard | Reason |
| Particulate matter | 12.50                                      | 46.1                                           | 0                                                              | 50       | NIL    |
| SO2                | 1.56                                       | 13.9                                           | 0                                                              | 400      | NIL    |
| NO2                | 14.55                                      | 19.6                                           | 0                                                              | 500      | 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 | 0.65                                 | 3.92                                | KL/A |
| Other Hazardous Waste | 0.053                                | 0.17                                | 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 | 7251                                 | 7417.57                             | 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              | 84469                                | 84740.88                            | MT/A |
| Medium carbon Ferro manganese slag | 5551                                 | 6372                                | MT/A |

#### 2) From Pollution Control Facilities

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM  |
|--------------------------|--------------------------------------|-------------------------------------|------|
| NA                       | 0                                    | 0                                   | 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 | 7251                                 | 5192.29                             | 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                    | 3.92                   | KL/A | It is sold to authorized re processor.      |
| 35.1 Exhaust Air or Gas cleaning residue | 7417.57                | MT/A | use for Brick block making and Brequetting  |
| Other Hazardous Waste                    | 0.053                  | 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                                                     |
|-------------------------------|--------------------|------|----------------------------------------------------------------------------------|
| Silico Manganese slag         | 84741              | MT/A | Used in SiMn production and sold for filling in low lying areas and brick making |

## Part-G

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

| <b>Description</b>                                       | <b>Reduction in Water Consumption (M3/day)</b> | <b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b> | <b>Reduction in Raw Material (Kg)</b> | <b>Reduction in Power Consumption (KWH)</b> | <b>Capital Investment(in Lacs)</b> | <b>Reduction in Maintenance(in Lacs)</b> |
|----------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------|---------------------------------------|---------------------------------------------|------------------------------------|------------------------------------------|
| Effluent recycle and reuse                               | 2160                                           | 0                                                           | 0                                     | 0                                           | 0                                  | 0                                        |
| Use of Sinter produced from Mn ore fines and GCP residue | 0                                              | 0                                                           | 0                                     | 0                                           | 0                                  | 0                                        |
| Use of MnO slag + MCFeMn slag                            | 0                                              | 0                                                           | 11606000                              | 0                                           | 0                                  | 0                                        |
| Sludge Bricks                                            | 0                                              | 0                                                           | 535000                                | 0                                           | 0                                  | 0                                        |

## Part-H

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

#### [A] Investment made during the period of Environmental Statement

| <b>Detail of measures for Environmental Protection</b>                 | <b>Environmental Protection Measures</b>         | <b>Capital Investment (Lacks)</b> |
|------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------|
| Data Connectivity of online PM monitors with MPCB server at SAF I & II | To get real time data transferred to MPCB server | 22.05                             |
| Construction of concert road                                           | For dust suppression                             | 123                               |
| Tree Plantation 5000 Nos                                               | Afforestation                                    | 2.65                              |
| Road sweeping machine                                                  | For dust suppression                             | 21                                |
| Installation of CAAQMS                                                 | For Ambient Air monitoring                       | 64.5                              |

#### [B] Investment Proposed for next Year

| <b>Detail of measures for Environmental Protection</b> | <b>Environmental Protection Measures</b> | <b>Capital Investment (Lacks)</b> |
|--------------------------------------------------------|------------------------------------------|-----------------------------------|
| Concrete lining of Effluent pond                       | To prevent water seepage                 | 236.33                            |
| Construction of Concrete Road In Township              | For dust suppression                     | 40                                |
| Construction of Concrete Road In plant                 | For dust suppression                     | 40                                |
| Tree Plantation 2000 Nos                               | Afforestation                            | 1.06                              |

## Part-I

### Any other particulars for improving the quality of the environment.

#### Particulars

6 nos of foggers are procured and installed for suppression of dust at various locations

#### Name & Designation

Rajesh D Gaikwad, CGM (Works)

#### UAN No:

MPCB-ENVIRONMENT\_STATEMENT-0000086844

#### Submitted On:

27-09-2025