



GOA STATE POLLUTION CONTROL BOARD

FORM V

(See Rule 14)

Environmental Statement for the financial year ending on 31st March on or before 30th of September every year.

PART A

- (i) Name and address of the owner/ occupier of the industry operation or process : Vedanta Ltd. Pig iron Plant
- (ii) Industry category Primary-(STC Code) : RED, Iron & Steel (involving processing from ore/ integrated steel plants) and or
Secondary-(STC Code) : Sponge Iron units
- (iii) Production capacity : 2,92,000 T / Year of Pig Iron Tonnes

Production Name	Production Capacity	Production Unit
Pig Iron	2,92,000 T / Year of Pig Iron	Metric Tonnes/Year

- (iv) Year of establishment : March 1992
- (v) Date of the last environment statement submitted : 31/07/2021

PART B

1. Water consumption m³/ d

Process : 129.30 m³/day

Cooling : 2229.08 m³/day

Domestic : 95.15 m³/day

Name of products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
Pig Iron	Process water- 0.175 m ³ /T Pig Iron	Process water- 0.1753 m ³ /T Pig Iron
Pig Iron	Cooling water- 2.906 m ³ /T Pig Iron	Cooling water- 3.023 m ³ /T Pig Iron

2. Raw material consumption

Name of raw materials	Name of products	Consumption of raw material per unit	
		During the previous financial year	During the current financial year
Coke	Pig Iron	625.47 Kg/T of product	618.03 Kg/T of product

Iron Ore	Pig Iron	1061.17 Kg/T of product	1066.84 (Includes 4.82Kg/T Iron Ore pellets) Kg/T of product
Limestone	Pig Iron	72.96 Kg/T of product	77.88 Kg/T of product
Dolomite	Pig Iron	91.90 Kg/T of product	91.81 Kg/T of product
Sinter	Pig Iron	609.94 Kg/T of product	588.57 Kg/T of product
Quartzite	Pig Iron	21.52 Kg/T of product	39.43 Kg/T of product
Manganese (Mn)	Pig Iron	0.69 Kg/T of product	0.25 Kg/T of product
Pulverized Coal	Pig Iron	37.39 Kg/T of product	43.76 Kg/T of product

*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

Pollution discharged to environment/ unit of output.

Pollution	Quantity of pollutants discharged(mass/day)	Concentration of pollutants in discharges(mass/volume)	Percentage of variation from prescribed standards with reasons
Water			
Water	No effluents are discharged from PID	NIL	NIL
Air			
Air	Monitoring carried out as per Consent conditions and is within permissible limit, and results submitted to GSPCB	Monitoring carried out as per Consent conditions and is within permissible limit, and results submitted to GSPCB	NIL (Well within permissible limits)

Name of Pollutants : .

PART D Hazardous Wastes

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

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
(a) From process	From maintenance: 1. Used oil: Generated qty - 1.76 MT Dispatched qty- 1.93 MT 2. Cotton waste residue: Generated qty- 0.514 MT Dispatched qty -0.514 MT 3. Paint Tins/empty barrels: Generated qty- 2.1216 MT Dispatched Qty- 2.0666 MT	From maintenance: 1. Used oil: Generated qty – 0.81 MT Dispatched qty– 2.47 MT 2. Cotton waste residue: Generated qty– 0.475 MT Dispatched qty- 0.475 MT 3. Paint Tins/empty barrels: Generated qty- 1.96 MT Dispatched Qty- 1.32 MT
(b) From pollution control facilities	NA	NA

PART E Solid Wastes

	Total Quantity	
	During the previous financial year	During the current financial year
(a) From process	93,674.800 MT	102617.706 MT
(b) From pollution control facility	Flue Dust- 3576.830 MT, Slurry- 1924.025 MT	Flue Dust- 4346.630 MT, Slurry- 1729.70 MT
(c)(1) Quantity recycled or re-utilised within the unit	Sent to sinter Plant as raw material	Sent to sinter Plant as raw material
(2) Sold	Sold slag- 93313.770 MT	Sold slag- 1,17,694 MT
(3) Disposed	NIL	NIL

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

1. Hazardous Waste:

-Used Oil is stored in empty oil barrels in an earmarked area/designated place and same is sent for disposal to authorized vendor.

-Cotton waste is disposed within plant at Met coke Division for incineration.

-Paint Tins/Empty barrels are stored in the designated place and same is disposed through authorized vendor.

2. Sludge: Gas Cleaning Plant Water is treated in Settling Pond & Thickener. The Settled solids in thickener & settling pond are removed, dried and sent to Sinter Plant for use as raw material.

PART G

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

- Process water is recycled and reused in a closed loop.

- Bag house system provided for Blast furnace 1, 2 and ladle dumping chamber.

- Rain guns are operated in raw material yard to prevent the fugitive dust during loading & unloading of material.

- Water sprinkling on roads done to prevent fugitive dust emissions.

- Plantation is carried out during Monsoon season

- Dry fog systems is operated for dust suppression which reduces the dust levels.

- We have installed facility to use PCI of 70-100 kg/T hot metal which will substitute additional measures/investment proposal for environmental protection including some coke. This initiative will help to conserve scarce coking coal & consequently reduce GHG emissions .

PART H

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

-Installation of wind shield at the boundary of the plant

-Fog cannons installed at raw material yard and dispatch yard.

-Road sweeping machines to prevent fugitive dust emissions .

PART I

Any other particulars for improving the quality of the environment .

Remarks : .