



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 : Arun Mishra
- (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 : 0.65MTPA of Pig Iron & 1 MTPA Sinter Plant Million Tonnes

Production Name	Production Capacity	Production Unit
Pig Iron	650000	Metric Tonnes/Year
Sinter	10,00,000	Metric Tonnes/Year

- (iv) Year of establishment : 2012
- (v) Date of the last environment statement submitted : 26/08/2023

PART B

1. Water consumption m³/ d

Process : 150 m³/day

Cooling : 2917 m³/day

Domestic : 77 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	NA	NA
Pig Iron and Sinter	Domestic water consumption:0.05 m ³ /t	Domestic water consumption:0.05 m ³ /t
Pig Iron	2.1 m ³ /t(Cooling water is inclusive of slag granulation, pig cooling, Oxygen plants cooling towers; BF stove cooling, dust suppression)	1.78 m ³ /t (Cooling water is inclusive of slag granulation, pig cooling, Oxygen plants cooling towers; BF stove cooling, dust suppression)
Sinter	Process water consumption:0.05 m ³ /t	Process water consumption:0.05 m ³ /t
Sinter	Cooling water consumption:0.02 m ³ /t	Cooling water consumption :0.01 m ³ /t

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 Breeze	Sinter	52 Kg/T	51 Kg/T
Limestone	Sinter	90 Kg/T	73 Kg/T
Dolomite	Sinter	50 Kg/T	53 Kg/T
Goli	Sinter	19 Kg/T	15 Kg/T
Quick Lime	Sinter	31 Kg/T	36 Kg/T
Sinter Dust	Sinter	73 Kg/T	52 Kg/T
Flue dust	Sinter	17 Kg/T	17 Kg/T
Mill Scale	Sinter	1 Kg/T	0 Kg/T
High Grade Low Mn Iron Ore Fines	Sinter	558 Kg/T	508 Kg/T
Low Grade Iron Ore Fines	Sinter	320 Kg/T	397 Kg/T
Lumpy High-Grade Ore	Pig Iron	369.26 Kg/T	469.47 Kg/T
Limestone	Pig Iron	0.81 Kg/T	3.23 Kg/T
Dolomite	Pig Iron	11.18 Kg/T	10.44 Kg/T
Manganese Ore	Pig Iron	0 Kg/T	1.58 Kg/T
Siliceous ore/Quartz	Pig Iron	67.11 Kg/T	35 Kg/T
Sinter	Pig Iron	1,319.00 Kg/T	1222.32 Kg/T
Pulverized coal	Pig Iron	169.26 Kg/T	168.48 Kg/T
Metallurgical Coke	Pig Iron	419.26 Kg/T	396.96 Kg/T

*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	Process water is recycled and reused in process. No water is discharged outside the plant	NIL(No discharge)	0(No deviation)

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	0(No deviation)
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Name of Pollutants : No pollutant discharged outside plant boundaries.

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	Used oil- Generated qty: 9390kg Disposal qty: 5500kg, Cotton waste – Generated qty 1278kg, Disposal qty: 1278kg, Paint Tins generated qty- 3725kg, Disposal qty: 5050kg	Used oil-Generated qty:6280kg Disposal qty: 9740kg, Cotton waste – Generated qty 693kg, Disposal qty :693kg, 3. Paint Tins generated qty- 5285kg, Disposal qty: 3625kg
(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	Non-hazardous waste: Slag- 204775000Kg	Non-hazardous waste: Slag- 223334000Kg
(b) From pollution control facility	Non-hazardous waste: Flue Dust BF3:9079580kg Sinter dust:66399295kg	Non-hazardous waste: Flue Dust BF3:11169300kg Sinter dust:22714570kg
(c)(1) Quantity recycled or re-utilised within the unit	Dust:83464150kg	Dust:69363846kg
(2) Sold	Slag sold:268525600kg	Slag sold:246849840kg
(3) Disposed	-	-

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 Used oil is stored in empty oil barrels at a designated place and same is sent for disposal to authorized vendor as per consent. Cotton waste is incinerated in coke ovens as per the consent authorization Paint Tins/Empty barrels are stored in the designated place and same is sent to authorized vendor as per the consent.

Dust from dedusting units and GDC GCP: Reused in sinter plant for sintering process

Slurry from PCM slurry is dried and used in sinter.

Occupier is authorized to handle: Used oil/Spent oil (Category 5.1) up to 15MT/Annum and 20MT as per expansion CTO, Discarded Containers / Barrels /Liners contaminated with Hazardous Wastes/Chemicals (Category 33.3) 5 MT/Annum and 10MT as per expansion CTO, Oil soaked cotton waste (Category 5.2) 10.0

MT/Annum and 2MT as per expansion CTO ,Oil filters(Category 33.3) 1 MT/annum and 3MT as per

expansion CTO.

PART G

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

1. Gas Cleaning plant installed at the Blast Furnace
2. Dedusting units installed, dust generated is reused in sintering process as raw material
3. Rain Water is harvested in Rain water harvesting pits and used for process
4. Water sprinkling on roads is done to prevent fugitive dust emissions
5. Road sweeping machine deployed for preventing fugitive dust emissions
6. Plantation is carried out during monsoon season for increasing density at the green belt
7. Windshield present along the boundaries .

PART H

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

1. All internal roads are black topped
2. Road sweeping machine deployed to prevent fugitive dust emissions
3. CEMS CAAQMS present for continuous air monitoring
4. Desilting of all settling ponds ensured before monsoons as a part of storm water management plan
5. Storm drains, filter beds, rainwater harvesting pits, settling ponds present for rain water harvesting and settlement of rainwater
6. Rain guns, fog cannons, sprinklers present for dust suppression .

PART I

Any other particulars for improving the quality of the environment

1. Plantation carried out during monsoons for greenbelt development
2. Environment Awareness sessions conducted for employees and in schools
3. Plantation drives in community and schools .

Remarks : .