

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

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(ii) Industry category Primary-(STC Code)

RED, Coke making, liquefaction, coal tar

Secondary-(STC Code)

distillation or fuel gas making

Saptesh Sardesai

(iii) Production capacity : Metallurgical

Coke:3,00,000Tons/annum,Generation of

Power:35 MW Million Tonnes

Production Name	Production Capacity	Production Unit
Metallurgical Coke	3,00,000	Metric Tonnes/Year
Generation of Power	35	Megawatt

(iv) Year of establishment : 2012

(v) Date of the last environment statement : 22/08/2023

submitted

PART B

1. Water consumption m3/d

Process: Met Coke Division#2:NIL, Waste Heat Recovery Power Plant#2:89 m3/day Cooling: Met Coke Division#2:429 m3/day, Waste Heat Recovery Plant#2:2064 m3/day Domestic: Met Coke Division#2:6.1 m3/day, Waste Heat Recovery Plant#2:2 m3/day

Name of products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
Metallurgical Coke	For Coke Quenching, 0.91 m3/T	For Coke Quenching, 0.8 m3/T
Power from waste heat of COFG and BFG	0.250 m3 for 1 MWh power Generation	0.132 m3 for 1 MWh power Generation

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
Coking Coal	Metallurgical Coke	1327 Kg/T	1332 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	Met Coke Division-2: Process water generated is recycled and reused in process. No water is discharged outside the plant.	NIL (No effluents discharged)	0(No deviation)
Water	Avg CT Blowdown water discharge 115 m3/day	Monitoring is carried out as per consent conditions and the results are within permissible limits. The reports are submitted to GSPCB.	0(No deviation)
Air	Met Coke Division- 2:Dedusting units present and Monitoring is carried out as per consent conditions and the results are within permissible limits. The reports are submitted to GSPCB.	Within permissible limits	0(No deviation)
Air	WHRPP-2:Dedusting stacks present and Monitoring is carried out as per consent conditions and the results are within permissible limits. The reports are submitted to GSPCB.	Within permissible limits	0(No deviation)

Name of Pollutants : Metcoke division II:No effluents discharged, WHRPP2:Cooling Tower Blow down Water discharge after treatment: 115 m3/day.

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 -3660 Kg Disposed Qty -3660 Kg Cotton waste: Generated Qty -0 Kg Disposed Qty 0 Kg Paint Tins/ empty barrels: Generated qty- 405 Kg Disposed Qty - 1140 Kg	Used Oil: Generated Qty -870 Kg & disposed Qty -600 Kg Cotton waste: Generated Qty -0 MT & Disposed Qty 0 MT, Paint Tins/empty barrels: Generated qty - 1450 Kg & Disposed Qty - 275 Kg
(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	NIL	NIL
(b) From pollution control facility	NIL	NIL
(c)(1) Quantity recycled or re-utilised within the unit	NIL	NIL
(2) Sold	NIL	NIL
(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 -Used oil is stored in empty oil barrels at a designated place disposed through authorized vendor as per consent.

- -Cotton waste is disposed within plant at Met Coke Division for incineration as per consent condition.
- -Paint Tins are stored in the designated place and same is disposed through authorized vendor.
- -Form-4 submitted to GSPCB on 27/06/2024

Occupier is authorized to handle Used oil/Spent oil (Category 5.1) 30,000 ltrs/annum, Oil soaked cotton rags/waste (Category 5.2) 21,000 Kg/annum, Oil Filters 2 MT/annum, Used/discarded paint tins (Category 33.3), Spent Ion exchange resin(Category 35.2) 400 kgs/annum

PART G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production 1.Dust extraction system present for Coke screening plant and coke ovens for effective suction of dust at source level

- 2. The water used for coke quenching is recycled & recirculated, after settling in the tanks.
- 3.Dry fog systems are installed for dust suppression in the coke handling area
- 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 green belt density
- 7.At coke screening plant, transfer point type bag filters are installed.
- 8.Grit arrestors provided at quench tower.
- 9.Sprinkling system are set up in coke yard
- 10.All conveyers are enclosed to prevent any fugitive dust emission

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- 11.Cake-type stamped charging with moist coal is done to prevent fugitive dust emission
- 12. Windshields have been installed at the boundary of the plant
- 13. Waste Heat Recovery Power Plant utilizes waste heat from coke Oven Flue Gases (COFG) from Coke Plant & Blast Furnace gas(BFG) from Pig Iron Plant to generate clean power.
- 14. The excess Power Generated is given to Goa Electricity (GED) which helps the state of Goa to meet part of Power Requirement.
- 15. Rainwater is harvested in Rainwater harvesting pits and is used for process.

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PART H

Additional measures/ investment proposal for environmental protection abatement of pollution, prevention of pollution 1.WHRPP utilizes waste heat from to produce clean Power. This helps in prevention of pollution and conservation of natural resources,

- 2.Flue gas from Non Recovery coke ovens are used to generate waste heat recovery power plant.
- 3.All internal roads are black topped
- 4.Road sweeping machine deployed to prevent fugitive dust emissions
- 5.CEMS CAAQMS present for continuous air monitoring
- 6.Storm drains with filter beds present for channelizing rain water into the settling ponds
- 7.Desilting of all settling ponds ensured before monsoons as a part of storm water management plan
- 8. Settling ponds and rainwater harvesting pits available for settlement of rain water
- 9. Rain guns, fog cannons, sprinklers present for dust suppression.

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PARTI

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, business partners and in schools
- 3. Plantation drives in community and schools.

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Remarks: .