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	:	Susanta Ganguli,Vedanta Iron&Steel Ltd
(ii)	Industry category Primary-(STC Code) Secondary-(STC Code)	:	RED, Coke making , liquefaction, coal tar distillation or fuel gas making
(iii)	Production capacity	:	MCD I:3,22,000 MT/year Metallurgical Coke, MCD II: 3,00,000MT/year 33 MW Generation of Power from Waste heat recovery boiler based power plant I, 35 MW from Waste heat recovery boiler based power plant II Coke briquetting plant 20000M T/annum Million Tonnes

Production Name	Production Capacity	Production Unit
Power from WHRPPI	33	Megawatt
Power from WHRPPII	35	Megawatt
Metallurgical Coke	3,22,000	Metric Tonnes/Year
Metallurgical Coke, MCD II	3,00,000	Metric Tonnes/Year
Coke briquetting plant	20000	Metric Tonnes/Year

(iv)	Year of establishment	:	1995
(v)	Date of the last environment statement submitted	:	20/09/2025

PART B

1. Water consumption m3/ d

Process : Met Coke Division 1 and 2 Process:NIL,WHRPP1 Process:68 m3/day,WHRPP2:73.68 m3/day

Cooling : Met Coke Division 1:455m3/day,MCDII:445m3/day,WHRPPI:2147 m3/day,WHRPP2:2186.76 m3/day

Domestic : MCDI and II:101m3/day,WHRPP1 2:2m3/day

Name of products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
Metallurgical Coke MCDII	Coke Quenching 0.73 m3/t	Coke 0.74 Quenching m3/t
Power from WHRPPI	0.165 m3 water for 1MWhr Power	0.116 m3water for 1MWhr Power
Power from WHRPPII	0.140 m3 water for 1MWhr Power	0.107 m3water for 1MWhr Power

Metallurgical Coke MCDI	Coke Quenching 0.72 m3/t	Coke 0.73 Quenching m3/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
Coking Coal	Metallurgical Coke plant 1	1343 Kg/T	1329 Kg/T
Coking Coal	Metallurgical Coke plant 2	1361 Kg/T	1347 Kg/T
Waste heat of Coke Oven flue gas and blast furnace gas	Power generated from waste heat of COFG & BFG of Vedanta units PID & MCD	4.350 Mil Kcal for 1 MWH generation	3.680 Mil Kcal for 1MWH generation
Waste heat of Coke Oven flue gas and blast furnace gas	Power from waste heat of COFG & BFG of Vedanta units PID & MCD	3.095 Mil Kcal for 1MWH generation	3.012 Mil Kcal for 1MWH generation

*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	**MCDI II:Process water generated is recycled and reused in process. No water is discharged outside the plant.**	**NIL**	**NIL**
Air	**Monitoring carried out as per Consent conditions and is within permissible limit, and results submitted to GSPCB**	**Within permissible limits**	**No variation observed from the prescribed standards, all within 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	MCDI PPI:Used Oil: Qty Generated – 3050 Kg Disposed Qty –1440 Kg Cotton waste: Generated Qty - 140Kg Disposed Qty - 140 Kg, Paint tins/empty barrels: Generated Qty – 1670Kg, Disposed Qty –1520Kg,MCDII PPII:Used Oil: Generated Qty -210 Kg & disposed Qty –210 Kg Cotton waste: Generated Qty -0 MT & Dispatched Qty 0 MT Paint Tins/empty barrels: Generated qty - 575Kg & Disposed Qty – 1769 Kg	MCDI,II and WHRPPI,II Used Oil: Qty Generated – 3389ltrs/annum Disposed Qty – 5189ltrs/annum Cotton waste: Generated Qty -50 Kg Disposed Qty -50 Kg, Paint tins/empty barrels: Generated Qty – 890 Kg, Disposed Qty –1040Kg Oil Filters Generated Qty – 120 Kg, Disposed Qty –110Kg Spent Ion exchange resin WHRPPI,II Generated Qty – 700 Kg, Disposed Qty –700Kg
(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 barrels at a designated place on secondary containment 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.

Spent Ion exchange resin is stored at designated place and sent for incineration to authorized vendor

1. Hazardous Waste: (Met Coke Division I II and WHRPPI,II)

Occupier is authorized to handle Used oil/Spent oil (Category 5.1) upto 35,000 liters/annum

Oil soaked cotton rags/waste Residues containing oil (Category 5.2) 41,000 Kg/annum Empty barrels/containers/liners contaminated with hazardous chemicals/wastes (Category 33.3) 5000 nos/annum and Spent Ion Exchange resin (Category 35.2) 800 kgs/annum

Oil Filters(33.3)- 2 MT/annum

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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.Fog cannons are installed for dust suppression in the coke screening plant area

4.Water sprinkling on roads is done using tankers to prevent fugitive dust emissions

5.Road sweeping machine is deployed to prevent fugitive dust emissions
6.Plantation is carried out during monsoon season for increasing green belt density
7.At coke screening plants pulse jet type bag filters are installed.
8.Grit arrestors provided at quench tower.
9.Sprinkling system using rain guns are set up in coke yard
10.All conveyers are enclosed to prevent any fugitive dust emission
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
16.Solar power generation system of 100 KW is installed on roof top of
admin building.
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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 coke Oven Flue Gases (COFG) from Coke Plant & Blast Furnace gas(BFG) from Pig Iron Plant to generate 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.Internal roads are blacktopped
4.Road sweeping machine deployed to prevent fugitive dust emissions
5.Storm drains with filter beds present for channelizing rain water into the settling ponds
6.Desilting of all settling ponds ensured before monsoons as a part of storm water management plan
7.Settling ponds and rainwater harvesting pits available for settlement of rain water
8.Rain guns, fog cannons, sprinklers present for dust suppression.
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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, business partners and in schools
3.Plantation drives in community and schools.
4.EV vehicle for employee transportation for official work
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Remarks : Environment statement of M/s. Vedanta Iron and Steel Ltd, Value Added Business,Waste Heat Recovery Plant I & II and Coke Oven Plant I & II .