

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

Name and address of the owner/ occupier of
the industry operation or process:Vedanta Ltd, Met coke Division Ii and
Waste heat recovery power plant IIndustry category Primary-(STC Code)
Secondary-(STC Code):RED, Coke making , liquefaction, coal tar
distillation or fuel gas making

:

:

(iii) Production capacity

322000 Tonnes

Production Name	Production Capacity	Production Unit
Met Coke	322000	Metric Tonne
Power	33	Megawatt
(iv) Year of establishment	:	

(v) Date of the last environment statement submitted

PART B

1. Water consumption m3/ d

Process :

(i)

(ii)

Cooling :

Domestic :

Name of products	Process water consumption per unit of product output		
	During the previous financial year	During the current financial year	
Power	0.039 m3/MWhr	0.075 m3/MW	
Met Coke Division Cooling	485 m3/day	590 m3/day	
Met Coke Domestic	95 m3/day	132 m3/day	
Power Plant Cooling	1981 m3/day	2049.15 m3/day	
Power plant domestic	2 m3/day	2.16 m3/day	
Met Coke	0.644 m3/T	0.641 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	Met Coke	1327 Kg/T	1323 Kg/T
Waste heat from COFG and BFG	power	4.083 MKcal/MWh	3.973 MKcal/MWh

*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/volu me)	Percentage of variation from prescribed standards with reasons
Water			
Water	Nil	Nil	Nil
Water	248.76 m3/Day	248 m3/day	NIL
Air			
Air	NIL	NIL	Monitoring is carried out as per consent conditions
Air			
Air	NIL	NIL	No deviation for MCD

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	NA	NA	
(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 No solid waste is generated from the Process or Pollution Control facilities.

HAZARDOUS WASTE:-

1) Used/spent oil(Cat. 5.1)- 4.51 MT (4747L) disposed to authorized recycler against limit of 5000 L.

2) Oil soaked cotton waste(Cat. 5.2)- 0.021 MT disposed as per CTO provision against limit of 20 MT

3) Used/discarded paint tins (Cat. 33.2):- 4.057 MT (OR 1500 Nos.) disposed against limit of 2000 Nos.

4) Spent Ion Exchange Resin (Cat. 35.2):- NIL.

PART G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production 1. Water used for coke quenching is fully recycled.

2. AAQMS has been set up at various locations for measurement of all 12 parameters twice /week.

3. Dry fog system and fog/mist cannon provided for on site dust suppression.

4. Rain guns and sprinklers are provided at raw material and dispatch yard.

5. Bag filters installed at all major transfer points.

6. Grit arrestor provided at quench tower.

7. STP of 30 KLD is installed.

8. CAAQMS is provided towards Navelim Plant Boindary having continuous and real time data communication to SPCB and CPCB.

9. Windshields set up along coke yards.

10. Coal is always stored in closed sheds.

11. WHRPP1 utilizes waste heat from coke oven as well as blast furnace to generate clean power and is qualified as CDM under UNFCCC.

12. Excess power is given to Goa Electricity Grid which helps in meeting local power requirement. .

PART H

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

2. Flue gas from Non Recovery based coke ovens are used to generate waste heat recovery power from plant.

3. Waste Heat Recovery Based power plant is a Clean Process which generates power from waste heat. .

PART I

Any other particulars for improving the quality of the environment 1. Around 1000 saplings have been planted in premise.

2. Road sweeping machine is deployed to arrest fugitive dust.

3. Stakeholders engagement, by virtue of which, various socio-economic programs on front of education, health, infrastructure, agriculture & livelihood development for overall community development in Navelim village has been taken.

4. Work for setting up of additional bag- houses is in place.

MET COKE DIVISION:-Raw Material Consumption:-314035 DMT Coal Production:- 237383 DMT Met Coke WHRPP 1: Raw Material:-803148 MKCal Production:- 204000 MWh

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