



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 : Sunil Dugal
- (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 : 540000 tonnes /year Million Tonnes

Production Name	Production Capacity	Production Unit
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- (iv) Year of establishment : 2012
- (v) Date of the last environment statement submitted : 14/09/2020

PART B

1. Water consumption m³/ d

Process : NA

Cooling : 2493 m³/day

Domestic : 51.8 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 -NA	Process Water- NA
Pig Iron	cooling water -2.194 m ³ /t of Pig Iron	COOLING WATER -2.5987 M ³ /t of 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
Metallurgical Coke	Pig Iron	509 Kg/T of product	526.85 Kg/T of product
Lumpy High Grade Ore	Pig Iron	351Kg/THM	286.26 Kg/THM
Limestone	Pig Iron	7 Kg/THM of product	0.47Kg/THM of product

Dolomite	Pig Iron	45Kg/THM of product	34.84 Kg/THM
Manganese Ore	Pig Iron	0 Kg/T of product	0.06Kg/T of product
Siliceous ore/Quartz	Pig Iron	0Kg/THM of product	33.36Kg/THM of product
Sinter	Pig Iron	1387 Kg/THM of product	1466.69 Kg/THM of product
Pulverized coal	Pig Iron	111 Kg/THM of product	80.08 Kg/THM of product
Dolomite	Sinter	52 Kg/T of product	50 Kg/T of Product
Limestone & Dolomite Fines	sinter	1Kg/T of product	1Kg/T of product
Pig Iron 10/-50 mm Goli & -10mm Goli	Sinter	16Kg/T of product	19Kg/T of Product
Quick Lime	Sinter	27Kg/T of product	25Kg/T of product
Sinter Dust & DSinter Fines (-5MM)	Sinter	21Kg/T of product	41Kg/T of product
Flue dust from Blast Furnance	Sinter	18Kg/T of product	13Kg/T of product
Mill scale	Sinter	10Kg/T of product	4Kg /T of product
Ti-Fe Ore	Sinter	0kg/THM of product	0.05Kg/THM of the product
High Grade Low Mn Iron Ore Fines	sinter	698Kg/T of product	528Kg/T of product
Coke Breeze	Sinter	56Kg/T of product	58Kg/T of product
Limestone	Sinter	82 Kg/T of the product	98Kg/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	Process water generated is recycled and reused in process. No water is discharged out side the plant.	NIL	NIL

Air	Monitoring carried out as per Consent conditions and is within permissible limit, and results submitted to GSPCB	NIL	NIL
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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	Hazardous waste generated at BF3 & sinter plant -Used oil Generated qty - 14.81MT, Cotton waste Generated Qty-0.458 and Paint tins Generated-0.65MT	Used oil Generated qty -1.76 MT, Cotton waste generated qty -0.514 MT and Paint tins Generated Qty -2.1216
(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	188860	165735.36
(b) From pollution control facility	Sinter dust-30264MT	Flue Dust BF3-6751.049 MT,Sinter Dust -32730.225 MT
(c)(1) Quantity recycled or re-utilised within the unit	Nil	43031.76MT
(2) Sold	Reused in sinter Plant 33561 MT, Flue Dust -127318.3MT	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 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 are stored in the designated place and same is disposed through authorized vendor .

PART G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production Installed Automated & integrated Fogging System at sinter plant for dust suppression in quick lime handling

Asphalting of roads within plant is going on in phase manner

Dry Gas Cleaning plant has helped in reducing water consumption.

De-dusting unit is installed at cast house and PCM area.

De-dusting unit is installed at stock house.

The dust collected from Bag house/Dedusting unit is used as raw material in sinter plant
Water is harvested in Pits during monsoon for effective utilization of water resource for process
Plantation is carried out during monsoon season

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PART H

Additional measures/ investment proposal for environmental protection abatement of pollution, prevention of pollution Rain guns in raw material & Dispatch yard to prevent the fugitive dust.

Phase wise roads asphlatation work in progress

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PART I

Any other particulars for improving the quality of the environment About 1000 trees have been planted in 2020-2021.

Some of the roads are concreted & the roads are sprayed with water for dust suppression regularly.

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Remarks : .