

FORM V  
(See rule 14)

Environmental Statement for the financial year ending 31<sup>st</sup> March 2014

PART – A

i) Name and address of the owner / Occupier	:	Mr Rahul Mittal Works: Sidiginamola – 583138, Ballari tq & dist., Karnataka Correspondence: 17/95, Vishal Nagar Ananthapur Road, Ballari
ii) Industry category Primary (STC Code) Secondary (SIC Code)	:	Large Red
iii) Production capacity	:	Sponge Iron Plant: 180,000 tpa Captive Power Plant: 15 MW Iron Ore Beneficiation Plant: 600,000 tpa Pellet Plant: 600,000 tpa
iv) Year of establishment	:	2004

Production:

Product	Quantity Produced	
	2012-13	2013-14
Sponge Iron	1,72,928.69 T	1,63,985.04 T
Captive Power generation	116.50 MU	120.55 MU
Iron Ore Beneficiation	Nil	1,48,508.00 T
Pellet	5,16,870.30 T	3,63,764.00 T

PART – B

WATER AND RAW MATERIAL CONSUMPTION:

Water consumption in kl / Day:

Name of the products	Process water consumption	
	During the previous financial year	During the current financial year
Sponge Iron Plant Pellet Plant Captive Power Plant Iron Ore Beneficiation Plant	Process: 880 klpd Domestic: 10 klpd Gardening: 20 klpd Total: 910 klpd	Process: 960 klpd Domestic: 16 klpd Gardening: 30 klpd Total: 1006 klpd

Raw Material Consumption:

Sl.No	Raw material	2012-13	2013-14
1	Iron Ore/fines	7,95,453.390 T	6,90,006.950 T
2	Coal	2,38,226.550 T	2,03,969.500T
3	Bentonite	4,311.700 T	1,579.000T
4	Lime stone	3,499.850T	2,389.170 T
5	HSD & FO (KL)	7,729.84 KL	5,418.19 KL

Raw Material Consumption per tonne of product:

Name of Unit	Name of raw materials*	Consumption of raw material per unit of Output	
		During the previous financial year (2012-13)	During the current financial year (2013-14)
Sponge Iron	Iron Ore Iron Ore Pellet Coal Limestone	0.98 0.80 1.22 0.02	0.62 1.13 1.11 0.01
Captive Power Plant		Waste gas from Sponge Iron units and two other raw materials i.e coal and dolochar are used. Hence it is not practicable to arrive at consumption of raw material per unit of output.	Waste gas from Sponge Iron units and two other raw materials i.e , coal and dolochar are used. Hence it is not practicable to arrive at consumption of raw material per unit of output.
Pellet	Iron Ore fines & beneficiated fines Bentonite Coal	1.22 0.01 0.038	1.61 0.005 0.044
Iron Ore Beneficiation	Iron Ore fines	-	1.89

PART – C

Pollution discharged to environment per unit of output Parameters as specified in the consent issued

WATER POLLUTION:

Source of pollution	Pollutants	Quantity of pollutants discharged (Kg/day)	Concentration of pollutants discharges (Mass/volume)	Percentage of variation from prescribed standards with reasons
	Zero Effluent Discharge Unit			

PART – D

AIR POLLUTION:

Source of pollution	Pollutants	Quantity of pollutants discharged (Kg/day)	Concentration of pollutants discharges (Mass/volume)	Percentage of variation from prescribed standards with reasons
Sponge Iron Unit Stacks Rotary Kiln –I & II Rotary Kiln –III & IV Rotary Kiln –V & VI	Particulate Matter		88.59 mg/Nm <sup>3</sup> 79.88 mg/Nm <sup>3</sup> 86.07 mg/Nm <sup>3</sup>	Standard as per CFO 100 mg/Nm <sup>3</sup>
Power Plant Stack connected to FBC Boiler -47 TPH	Particulate Matter		88.69 mg/Nm <sup>3</sup>	Standard as per CFO 150 mg/Nm <sup>3</sup>
Pellet plant Stack connected to travelgrate rotary kiln & cooler	Particulate Matter		37.52 mg/Nm <sup>3</sup>	Standard as per CFO 50 mg/Nm <sup>3</sup>

PART - E

SOLID WASTES:

Solid Wastes	Total Quantity(Tonne)	Total Quantity(Tonne)
Ash	During previous Financial Year 2012-13	During Current Financial Year 2013 -14
From Process	58,320	50,403
From Pollution Control Facility	25,468	29,546
Quantity Recycled or Reused	41,463	50,212
Sold	22,006	4,355
Disposed	15,000	14,000

SOLID WASTES MANAGEMENT:

The following tabulation shows the byproducts being generated, their source and use :

Name of byproduct	Source	Use
Char	Sponge Iron Production	As fuel for Power Plant
Accretion	Sponge Iron Production	To be beneficiated and used as source of Iron Ore for Pellet production and for internal road making.
Fly Ash	Power generation	For Brick manufacturing and as land fill.

PART - F

HAZARDOUS WASTES:

(As specified under hazardous wastes/management & handling rules 1989)

Hazardous waste	Total quantity ( Ltrs )	
Waste oil	During the previous financial year 2012-13	During the current financial year 2013-14
From process	Nil	Nil
From pollution control facilities	Nil	Nil
DG Sets & Machineries	10,200 Ltrs.	9,700 Ltrs.

PART - G

Please specify the characterization (in terms of composition & quantum) of hazardous as well as solid wastes indicate disposal practice adopted for both these categories of wastes:

The waste water generated from the industry is passed through Soak Pit and Septic Tank for reuse in gardening or for sprinkling on the roads. There is a 120 kld Effluent Treatment Plant from which also the processed water is used for gardening and sprinkling on the roads.

Waste oil is the only hazardous waste which is generated in the industry from DG Sets and Gear boxes, amounting to about 9,700 LPA and the same is used internally by incineration in Pellet Plant's Travel Gate.

#### PART – H

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

The Industry is producing Flyash bricks. To that extent it avoids excavation of earth by Red Brick manufacturing industry. It conserves environment and ecology.

The industry does not adversely impact the environment. The only natural resource consumed is water. The waste water generated from the industry is passed through Soak Pit and Septic Tank for reuse in gardening or sprinkling on the roads. There is a 120 KLD Effluent Treatment Plant from which also the processed water is recycled, reused for gardening and sprinkling on the roads.

#### PART – I

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

Environment protection and pollution controls have been the priority for the industry. Any suggestions or improvements made by the Pollution Control Board would be implemented.

#### PART – J

Any other particulars for improving the quality of the environment

The Industry has taken-up extensive green belt development program in the entire Plant area so that there remains no vacant or un-utilized land without a tree. Till March 2014 1,19,391 saplings have been planted. Area covered under greenbelt is 143.15 acres. As all such land has already been planted, we have started planting small plants in the gaps between the trees also. This program may let us plant another 6000 samplings. Also we are planning to plant fruit bearing plants in the houses of nearby villages Karekal and Bylachintha to generate awareness of environment protection and as a social activity.

Dolochar generated from sponge Iron units is completely utilized in FBC boiler thereby reducing use of coal.

Constant efforts will be made in making use of the updated technologies.