

FORM- V**Environmental Statement for the Financial Year ending 31st March 2015****PART- A**

(i)	Name and Address of the Owner/ Occupier of the industry operation or process	Mr. Giriraj Kumar Jhawar Inland Power Ltd. Inland Nagar, Vill: Tonagtu, P.O: Saram, Gola Dist: Ramgarh, Jharkhand.
(ii)	Industry category	Large
(iii)	Production capacity	63MW
(iv)	Year of establishment	2014
(v)	Date of last Environmental statement submitted	1 st Environmental Statement. Company has started the commercial production on 21.05.2014.

PART – B**Water and Raw Material Consumption**(1) Water Consumption m³ / day: for FY(14-15)

Process : 3100 m³/ day
Cooling :
Domestic : 35 m³/day

Name Of the Products	Water consumption per unit of product output (M3/MWH)	
	Previous Year(13-14)	Current FY(14-15)
Electricity	NIL	3.02

(2) Raw Material consumption

Name of the Raw Materials	Name of Product	Consumption of Raw Material per unit of output(Ton/MWH)	
		Previous Year(13-14)	Current Year(14- 15)
Coal	Electricity	NIL	0.241
W.Reject	Electricity	NIL	0.838
Dolochar	Electricity	NIL	0.293
HSD(Liter\MWH)	Electricity	NIL	1.31

PART – C

Pollution discharge to Environment

Pollution discharged to environment/unit of output

Pollutants	Quantity of pollutants discharge (kg/hr.)	Concentration of pollutants in discharges(mass/volume) mg/Nm ³	Percentage of variation from prescribed standards with reasons
Water	Nil	Nil	Nil
Air(Stack)			Within prescribed standard
PM	5.09	49.47	
SO ₂	5.01	48.73	
NO _x	1.80	17.46	

PART – D

Hazardous Wastes

<u>Hazardous Waste</u>	<u>Total Quantity (liters)</u>
From Process -Used Lub. Oil	242 liters
From Pollution facilities	Nil

PART – E

Solid Waste

A. Solid Waste Generation:

Solid Waste		Total Quantity(MT/Annum)
a. From Process		
b. From Pollution Control facilities:	Ash	256847.00

B. Solid Waste Disposal:

	Total Quantity(MT/Annum)
1. Re-utilized within the unit	
i) Internal Road Construction	26296
ii) In house bricks manufacturing Plant	6325
2. Disposed outside plant	

i)	Supplied to other brick manufacturer	6063
ii)	For backfilling in abandoned mines	202440
3.	Balance yet to disposed off	15723

PART – F

Please specify the characterizations (in terms of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1. The hazardous waste: 242 liter of used lube oil was generated and stored in barrels at site as per norms and will be sent to the authorized recycler.
2. Solid waste: 256847 tones of fly ash and bottom ash was generated and utilized by in house/outside bricks manufacturing plant, internal road construction and also utilized in the back filling of the abandoned mines allotted by the CCL.

PART – G

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

1. Domestic effluent had been treated by the STP and the treated water had been re-utilized in the plantation and gardening purposes.
2. Process water was treated through n-pits and water had been re-utilized in brick plant, dust separations etc.

The above process has saved the utilization fresh water and resulting conservation of natural resource like water.

PART – H

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

Following Pollution control equipments has been installed to control the pollution:

A. Equipment Details:

SN	EQUIPMENT/SYSTEM	LOCATION	DESCRIPTION	Amount Invested
1	Silencer	Outside TG Building	Noise Control	Rs. 3,18,259/-
2	Turbine Enclosure	Turbine Building, 11 Mtr. Level	Noise Control 90 dBA at 1 Mtr. distance	Rs. 2,70,100/-

3	Electro Static Precipitator	ESP Double Pass, Five Field Each Between Boiler and Chimney	<50 mg/ Nm ³ With 8 Out of 10 field in service	Rs. 20,48,43,283/-
4	SPM Analyser	ID Fan outlet Duct before Stack	<50 mg/ Nm ³ With 8 Out of 10 field in service	Rs. 2,25,000/-
5	Dust Extraction System 1	Crusher House	35000 M ³ /hr, <50 mg/ Nm ³	Rs. 21,10,594/-
6	Dust Extraction System 1	Screening House	35000 M ³ /hr, <50 mg/ Nm ³	
7	Dust Extraction System 1	Bunker Floor	35000 M ³ /hr, <50 mg/ Nm ³	
8	Bed Ash Silo 1	Near CHP	700 M ³	Rs. 9,14,12,276/-
9	Fly Ash Silo 1 & 2	Near CHP	1300 M ³ Each	
10	Bag Filter Fly Ash Silo	Top of Fly Ash Silo	2200 M ³ /hr, <50 mg/ Nm ³	
11	Bag Filter Bed Ash Silo	Top of Bed Ash Silo	1100 M ³ /hr, <50 mg/ Nm ³	
12	Bag Filter Bunker Bed Material	Bunker	1100 M ³ /hr, <50 mg/ Nm ³	
13	Chimney	After ESP	Height of 96 Mtrs and Diameter Ø 4.5 Mtr.	Rs. 2,99,16,975/-
14	Neutralisation Pit	Outside DM plant	45 M ³	Rs. 1,10,361/-
15.	Water Sprinkler	Coal stock yard		Rs. 85,250/-
16.	Water Tanker with sprayer	For Water Sprinkling at Road side.		Rs. 3,75,600/-

- B. Apart from the above a roof top rain water harvesting system has been implemented with the investment of **Rs 20,40,667/-**
- C. Green belt has been developed by planting 3385 nos. of tree around the boundary wall, road and vacant in and around the plant area with the investment of **Rs 23,12,866/-**
- D. Third party monitoring of environmental parameters has been carried by the NABL and JSPCB approved lab. With the investment of **Rs. 5,87,087/-**
- E. Hydrological study and monitoring of ground water, surface water has been done in the area of abandoned mines where fly ash has been dumped for backfill with the investment of **Rs. 58,932/-**

PART – I

Any other particular for improving the quality of the environment

1. Regular check-ups and timely Maintenance of pollution control equipments.
2. Regular sprinkling of water on the roads outside the plant area also for controlling of fugitive dust.
3. Transportation of material by the covered trucks.
4. Maintaining Zero discharge.