

Environmental Statement Report 2018-19 for Sai Lilagar Power Generation Limited at Gopalnagar, Janjgir-Champa District, Chhattisgarh-capacity – 43 MW –Phase-I

Form-V

**ENVIRONMENTAL STATEMENT
Form-V
Financial Year 2018-19**

Of

**Sai Lilagar Power Power Generation
Limited**

September-2019

**Gopal Nagar, Janjgir Champa
Chhattisgarh**

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FORM - V
(See Rule 14)

Environmental Statement Report for the financial year ending the 31st March, 2019.

PART-A

- (i) Name and address of the Owner/Occupier of the Industry, Operation or process. : Mr. N.V.Sreenivas
Director
M/s. Sai Lilagar Power Generation Ltd.,
Gopal Nagar, Janjgir - Champa District
Chhattisgarh – 495663.
Tel: 07817-234585 & Fax: 07817 – 234583
- (ii) Industry Category : Red Category - Hazardous
Coal based Power Plant
- (iii) Production capacity : 43 MW(Phase-I)
- (iv) Year of Establishment : 2006
- (v) Date of the last environmental : 30th September, 2018

PART-B

Water and Raw Material Consumption

(i) Water consumption, m ³ / day :	[Please refer Annexure 1]	
	Previous Year (2017 - 2018)	Current Year (2018 - 2019)
DM Plant:	74.42	0
Cooling Towers:	823.452	0
Domestic:	29.03	0

Name of Product	Water Consumption per unit of product	
	During the Previous Financial Year (2017-18)	During the Current Financial year (2018 - 2019)
Electricity	3.49 lit/KWh	0 lit/KWh

(ii) Raw Material consumption:

Name of Raw Materials.	Name of Products	Consumption of Raw Material per unit of output (Tons/MWH of Electricity)	
		During the Previous financial Year 2017-18	During the Current financial Year 2018 - 2019
Coal	Electricity	0.91	0
LDO	Electricity	0.00	0

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PART-C

Pollution Generated

(Parameters as specified in the Consent issued)

Pollution discharged to Environment/ unit of output

(i) Pollutant	Quantity of Pollution Generated	Percentage of variation from Prescribed Standards
(a) Water	plant under shut down	
(b) Air	plant under shut down	

PART-D

Hazardous Wastes

(as specified under Hazardous Wastes/Management and Handling Rules, 1989)

Hazardous Wastes	Total Quantity	
	During the Previous Financial Year 2017-18	During the current financial year 2018-19
(a) From Process Waste Lubricant oil	357 lit.	0
(b) From Pollution Control Facility.	Nil	Nil
(c) Quantity recycled or re-utilized.	Nil	Nil

Waste Lubricant oil generated in the process will be sold to CECB authorized waste recyclers.

PART-E

Solid Wastes

	Total quantity	
	During the Previous Financial Year 2017-18	During the Current financial Year 2018-19
(a) From process Fly ash	0.3555544 Lac MT	0.00 Lac MT
Bottom ash	0.0370124 Lac MT	0.00 Lac MT
(b) From Pollution Control facility	Nil	Nil

(c) Quantity recycled or re-utilized

i) Bottom ash and Fly Ash

Fly ash was sent to M/s. Lafarge India Pvt. Ltd., for manufacturing of Portland Pozzolona Cement, brick manufacturing and filling of stone quarry pit.

PART-F

Please specify the characteristics (in terms of concentration and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of waste.

Generated used oil is sold to CECB authorized waste recyclers. The total generated fly ash was sent to M/s. Lafarge India Pvt. Ltd. for manufacturing of Portland Pozzolona Cement, brick manufacturing and filling of stone quarry pit. The generated bottom ash was used for filling of stone quarry pit.

PART-G

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

Regular monitoring of ambient air quality, stack emissions and effluent quality have been taken up to evaluate the efficiency of the pollution control systems and control measures has been taken on the overall emissions from stack and in ambient air.

Cost details of pollution control equipment & environmental monitoring the year 2017-18 are as follows:

I. Revenue nature (Rs. In lakh)

- a) Air pollution control Department Expense (including stores & spares)
- b) Waste water treatment plant
- c) Solid waste disposal
- d) Noise assessment
- e) Fire protection/Fire fighting
- f) Greenbelt Development/Maintenance
- g) Environmental Monitoring
- h) Water cess

Rs. 15.00 Lakhs

PART-H

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

1. A massive tree plantation is in progress inside as well as outside of the plant premises. Total 36506 no. of saplings were planted to develop Greenbelt surrounding the plant boundary on all four sides & the survival rate is 75%. Also small gardens are developed inside of the plant premises wherever the open space is available to improve the plant beautification.

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2. There is no discharge of waste water from the plant area and the unit is zero discharge unit.
3. Dust Extraction system for Primary & Secondary Crusher & water sprinkling arrangement to the coal conveyor belt of Coal Handling area to reduce the fugitive emission in the plant.
4. Housekeeping is taking on top priority and engaged 12 no. of manpower for maintaining neat and clean environment in the plant premises.

As already adequate measures have been taken for pollution control, capital investment is planned for the next financial year 2019 – 2020 regarding installation of FGD and related facilities by spending approximately Rs.10.0 Crores.

PART-I

Miscellaneous

Any other particulars for improving environment protection and abatement of pollution.

1. Total 36506 no. of plants have been planted inside and outside of the plant premises to develop the Greenbelt up to March 2018. The survival rate of planted saplings is 75%.
2. The plantation of around 2003 no. of saplings for the financial year i.e., April 2017 to March 2018 has been carried out to develop massive greenbelt around the plant periphery. A broad leaf & preferably local species trees are selected to develop a massive Greenbelt in & around the plant to maintain the surrounding as a green environment.

Mr. N. V. Sreenivas

Plant Head

M/s. Sai Lilagar Power Company Ltd.

Gopal Nagar, Jajngir - Champa District

Chattisgarh – 495663.

ANNEXURE - I

**DATA OF INDUSTRIAL EFFLUENT (Guard Pond),
(APRIL 2018 - MARCH 2019)**

Month	pH	Total Suspended solids mg/l	Oil & Grease mg/l
April 2018	Shut Down	Shut Down	Shut Down
May 2018	Shut Down	Shut Down	Shut Down
June 2018	Shut Down	Shut Down	Shut Down
July 2018	Shut Down	Shut Down	Shut Down
August 2018	Shut Down	Shut Down	Shut Down
September 2018	Shut Down	Shut Down	Shut Down
October 2018	Shut Down	Shut Down	Shut Down
November 2018	Shut Down	Shut Down	Shut Down
December 2018	Shut Down	Shut Down	Shut Down
January 2019	Shut Down	Shut Down	Shut Down
February 2019	Shut Down	Shut Down	Shut Down
March 2019	Shut Down	Shut Down	Shut Down

ANNEXURE II

**WASTE WATER GENERATION AND POLLUTANT DISCHARGE
MAIN DRAIN EFFLUENT**

Parameter	Quantity of Pollution Generated, TPA	Quantity of Pollution Generated, Kgs/ Lac Unit Electricity
Total Suspended Solids (TSS)	Shut down	Shut down
Oil & Grease (O & G)	Shut down	Shut down

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ANNEXURE III
[Source Emissions Phase I]
(April 2018 - March 2019)

Stack Attached to	Stack Height (m)	Stack Diameter (m)	Average Velocity (m/s)	Average Temp. (°C)	Dust Concentration (mg/Nm ³)		SO ₂ (mg/Nm ³)		NO _x (mg/Nm ³)		Dust Control Equipment
					Min.	Max.	Min.	Max.	Min.	Max.	

(Monthly Source Emissions Phase I)
(April 2018 - March 2019)

Sr. No.	Month	Particulate Matter (mg/Nm ³)	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)
1	April 2018	Shut Down	Shut Down	Shut Down
2	May 2018	Shut Down	Shut Down	Shut Down
3	June 2018	Shut Down	Shut Down	Shut Down
4	July 2018	Shut Down	Shut Down	Shut Down
5	August 2018	Shut Down	Shut Down	Shut Down
6	September 2018	Shut Down	Shut Down	Shut Down
7	October 2018	Shut Down	Shut Down	Shut Down
8	November 2018	Shut Down	Shut Down	Shut Down
9	December 2018	Shut Down	Shut Down	Shut Down
10	January 2019	Shut Down	Shut Down	Shut Down
11	February 2019	Shut Down	Shut Down	Shut Down
12	March 2019	Shut Down	Shut Down	Shut Down