

# CHAPTER 2.0 – Form – V

See Rule 14)

Environmental Statement Report for the financial year ending the 31<sup>st</sup> March 2015

**Sai Regency Power Corporation Private Limited**

## PART-A

- |       |   |  |
|-------|---|--|
| (i)   | Name and address of the : Owner/<br>Occupier of the Industry, | Mr. K. A. Sastry,<br>Director,<br>Ph 040 23559922 – 25   |
| (ii)  | Name and Address of the<br>Manager of the industry            | Mr G Haribabu,<br>General Manager & Plant Head<br>Sai Regency Power Corporation<br>Private Limited,<br>Perungulam Post,<br>Kalugoorani,<br>Ramanathapuram – 623 536<br>Tamil Nadu.<br>Ph 04567 340032<br>Mobile 9789065423 |
| (ii)  | Industry Category :   | Red Category – Hazardous<br>Natural Gas based power plant  |
| (iii) | Production capacity :   | Generating Electricity<br>58 MW  |
| (iv)  | Year of Establishment:  | 2007   |

**PART – B**  
Water and Raw Material Consumption

1. Water Consumption in m3/d	2013-14	2014-15
	200.975 m3/d	180.78 m3/Day
A Process	147.5 m3/d	137.61 m3/Day
B Cooling	20.5 m3/d	19.5 m3/Day
C Domestic	32.975 m3/d	23.67 m3/Day

Name of Products	Process water consumption per unit of products	
	During the previous Financial Year 2013-'14	During the Current Financial Year 2014-'15
1. Generation of Electrical Power (Electricity)	Liters / unit	Liters / unit
2.	0.1371 ltrs per unit	0.1558 liters per unit
3.		

Water Received from South Ganga Waters Technologies 2014-15	183.649 m3/d			
Utilization - Industrial	Requirement	Effluent	Loses	Recycle/Gardening
1 G T NOx Control System	112.61	NIL	NIL	NIL
2 HRSG Make Up	25	NIL	NIL	NIL
3 ACW/GT Evaporative Cooling	19.5	NIL	NIL	NIL
Utilization - Domestic				
1 Sanitation	4	NIL	NIL	4
2 Canteen	2.5	NIL	NIL	2.5
3 MB Regenerative Waste Water	2	NIL	NIL	2
4. RO Reject	15.17	NIL	NIL	15.17
Utilization – Miscellaneous				
1 Fire Practice	0.1		0.1	0.1
2 Green Belt Development	8.4+ RO Reject	NIL		

ii. **Raw material Consumption:**

Name of raw material	Name of Products	Consumption of raw material per unit of output	
		During the previous Financial Year 2013.14	During the Current Financial Year 2014-15
1. Natural Gas	Electricity	0.2237 scm/unit	0.2289 scm/units

**PART – C**

Pollution discharged to environment / unit of output  
(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
a. Water	NIL	NIL	NIL
b. Air	TNPCB Lab Reports 2012 and 2013	1 NOX is less than 25 ppm 2 SOX is less than 20 ppm 3 CO is less than 8% v/v 4 CO2 less than 6% v/v	

**Details of Ambient Air Quality Monitoring Locations**

1 Top of Switch Yard Room
2 Near Main Gate
3 Near GAIL Yard
4 Top of the Security Room
5 Near ACW System
6 North East side Near Village House

The ambient air quality 12 parameters monitoring is being carried out 2 days every week in a month in the above locations and the reports have regularly been sent to TNPCB, Sivaganga. A copy of Report for the month of March 2014 is enclosed.

**DETAILS OF NOISE MONITORING LOCATIONS**  
1 meter away from the boundary

S. N.	Locations
1	North East Watch tower Area
2	North side of DM Plant
3	East side of Switch Yard
4	East side of GAIL Area
5	South side of Gas Turbine
6	South West Watch Tower Area
7	West side of Office Area
8	Outside Main Gate Area

The day time levels in the study area are ranged from 49.6 dB to 53 dB , where as the night time noise levels are observed to be in the range of 41.6 dB to 44.7 db. The noise levels in the site are well within the prescribed standards.

**PART – D**

**Hazardous Wastes: - Used Waste Oil**

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

Hazardous Wastes Used waste oil	Total Quantity (Kg)	
	During the previous Financial Year(2013-14)	During the Current Financial Year(2014-15)
1. From Process	7350 Liters	6700 Liters
2. From Pollution Control Facilities	NIL	NIL

**PART – E**

**Solid Wastes:**

Solid Wastes	Total Quantity (Kg)	
	During the previous Financial Year 2013-14	During the Current Financial Year 2014-15
1. From Process	NIL	NIL
2. From Pollution Control Facilities	NIL	NIL
3. Quantity recycled or reutilized within the unit	NIL	NIL

## **Fire Fighting Equipment**

We have taken up adequate measure to safeguard the workers and property with the following steps.

75 nos. of different types of portable fire extinguishers are available in the plant premises and are regularly calibrated.

Fire hydrant system consisting of 25 no's of hydrant posts, and 2 no's of water monitoring systems are installed in the plant premises

Fire detection cum alarm system and manual call points installed in the TG building and electrical control points.

Deluge valves spray system for 4 Transformers and 1 for Cable Room. One manually operated Spray valve for MOT (Main Oil Tank) of Steam Turbine.

## **PART – F**

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

We generate No Solid Waste. The spent liquid oil generated from Gas Booster Compressor piston is the only waste generated from our power plant. We use Indian Oil make Servo System 150.

The waste oil is sold to companies authorized by Tamilnadu Pollution Control Board after having adequate quantity of it. Returns are being submitted regularly to TNPCB, Sivaganga..

## **Part G**

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

Due to strict adherence of pollution control measures, we have created a lot of greenery in and around the plant and thereby creating a healthy and clean environment.

Though the pollution control measures such as NOX suppression system etc., adopted will add to the cost of production of Electrical Energy, yet it is worth for creating a clean and healthy environment.

**PART - H**

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

1. Tree plantation inside as well as outside of the Plant premises. wherever the open space is available to improve the plant environmental conditions..

For Sai Regency Power Corporation Private Limited

For SAI REGENCY POWER CORPORATION PVT. LTD.

  
05.09.2013  
Authorized Signatory  
Authorized Signatory.