



105/MCCPL/ENV/2023-24/335

Date:- 30/08/2023

To,
The Member Secretary,
Chhattisgarh Environment Conservation Board,
Paryavas Bhavan, North Block, Sector-19,
Naya Raipur, Chhattisgarh-492002

Subject:- Maruti Clean Coal and Power Limited, 1X300 MW Thermal Power Plant Vill. Bandhakhar, Tehsil Pali, District Korba, (C.G.)- Submission of Environmental Statement in Form - V for the Period from 1st April 2022 to 31st March 2023 _Regd.

Dear Sir,


Enclosed herewith please find, Annual Environment Statement for the financial year 2022-2023 for M/s Maruti Clean Coal and Power Limited, 1X300 MW Thermal Power Plant, Vill. Bandhakhar, Tehsil Pali, District Korba as per Rule - 14 of the Environment (Protection) Rules, 1986.

This is for your kind information and record please.

Thanking you,

Yours faithfully,

for, Maruti Clean Coal And Power Limited


Authorized Signatory

Encl: As Above

CC: - Regional Officer
Chhattisgarh Environment
Conservation Board, Korba, C.G.

:- For kind information please.



MARUTI CLEAN COAL AND POWER LIMITED

Regd. Office

Ward No. 42, Building No. 14, Near Income Tax Colony, Civil Lines, Raipur (C.G.) Pin-492001
Tele Fax 0771-4264967 CIN No. U24292CT1999PLC013364

Works

Power Plant - Village-Bandhakhar, Teh-Pali, Distt. - Korba (C.G.) **Washery**- Village -Ratija, Teh-Pali, Distt. - Korba (C.G.)



ANNEXURE-XII (Refer page - 25)
ENVIRONMENTAL STATEMENT FORM -V
(See rule 14)

Environmental Statement for the financial year ending with 31st March 2023

PART-A

1. Name and address of the Owner/Occupier of the industry Operational or Process. : **Shri. Kamal Kant
Managing Director(MD)
Maruti Clean Coal and Power Limited
7th Floor Ambience Mall, Ambience Island,
NH-C8, Gurgaon-122010, Haryana.**
2. Industry Category : **Red**
3. Production Capacity : **300 MW**
4. Year of Establishment : **2015**
5. Date of last Environmental Statement submitted. : **19.09.2022**

PART-B

Water and Raw Material Consumption:

I. Water Consumption in m³/d

- Process : **213.82 m³/d**
Cooling : **815.80 m³/d**
Domestic : **235.34 m³/d**

Name of Products	Process water consumption per unit of products (Ltr/KWh)	
	During the previous financial Year (2021-22)	During the Current financial Year (2022-23)
Power Generation	0.0481	0.0516

II. Raw Material Consumption

S.No	Name of Raw Materials*	Consumption of raw materials per unit of output	
		During the Previous financial year (2021-22)	During the Current financial year (2022-23)
1	Coal	0.70 Kg/KWh	0.73 Kg/KWh
2	LDO	0.489 ml/KWh	0.760 ml/KWh

Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.





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 reasons	
Water		Plant is operating on Zero Discharge Concept. Effluent Treatment Plant for the treatment of industrial effluent and a Sewage Treatment Plant for the domestic sewage have been installed and operational		All parameters are within limits	
Air	Stack Emission	SPM	-	39.1 mg/NM ³	All parameters are within limits
		SO₂	-	404.1 mg/NM ³	
		NO₂	-	244.7 mg/NM ³	
		CO	-	0.9 mg/NM ³	
	Ambient Air	PM 10	-	88 µg/m ³	All parameters are within limits
		PM 2.5	-	54 µg/m ³	
		SO₂	-	32 µg/m ³	
		NO₂	-	39 µg/m ³	
		CO	-	0.5 µg/m ³	

PART-D

Hazardous Waste:

(As specified under Hazardous Waste (Management & Handling rules, 1989))

Hazardous Wastes	Total Quantity(Kg)	
	During the previous financial year (2021-2022)	During the current financial year(2022-2023)
Form Process(Used/Spent Oil)	1 KL	1.0 KL
Form Pollution Control Facility	Nil	NIL





PART-E

Solid Waste: Fly Ash and Pond Ash

Solid Wastes	Total Quantity(MT)	
	During the previous financial year(2021-2022)	During the current year (2022-2023)
a. From Process (Ash)	675617	486146
b. Form Pollution Control Facility		
c. Quantity recycled of re-utilized within the unit.		
I Agriculture.	0.0	0.0
II Cement.	0.0	0.0
III Bricks Making	0.0	9259
IV Land Filling	0.0	0.0
V Road Construction	675617	477038
VI Disposed in Ash Dyke.	0.0	0.0

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.

Hazardous Waste: Hazardous Waste generated from the process includes used oil from machineries /equipment as per Authorization from the Chhattisgarh Environment Conservation Board.

Solid Waste: As per Fly Ash Notification 3rd November 2009 and amendment Fly Ash is used in construction of roads/Highways.

PART-G

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

1. High efficiency Electrostatic Precipitators (ESPs) and bag filter installed to control of dust emission in flue gas. **Rs. 2.08 Crores/annum (2022-23)** was spent towards periodical maintenance of pollution control equipment's in order to function efficiently.
2. Our plant is designed and operational on zero discharge concepts.
3. Green belt has been developed in and around the plant periphery to control the dispersal of dust particles and attenuate the noise generated during the process. We have planted around **3640 Nos** of trees from April 2022 to March 2023 within and outside plant premises. Overall we have planted **15900 Nos of trees (Last five years)** in and around the plant with **4.0 acres (2022-23)** of land covered under greenbelt.
4. Good housekeeping is being maintained in and around the power plant.





PART-H

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

1. Effluent Treatment Plant (ETP) with a capacity of **50 m³/hr** and Sewage Treatment Plant (STP) with a capacity of **10 m³/hr** are being operated efficiently and meet the standards prescribed by the board and the treated water is being used for plantation, dust separation/water sprinkling, etc.
2. Cost spent towards housekeeping in factory premises in order to prevent fugitive emission was **Rs. 29.74 Lakhs**.
3. Cost towards ETP/STP maintenance was **Rs. 1.08 Lakhs**
4. Cost spent towards development and maintenance of Greenbelt development in and around the factory premises was **Rs. 1.10-Lakhs**.
5. Plant is regularly monitoring ambient air, stack emission, noise level, water quality and soil quality in and around the plant premises. All the emission and discharges are meeting the permissible limits prescribed by MoEF/CPCB/CECB. Green belt has been developed in and around the plant periphery.

PART-I

MISCELLANEOUS:

Any other particulars in respect of environmental protection and abatement of pollution.

1. List of Pollution Control equipment are as follows:

S. No.	Plant Activities	Pollution Control Measure
1	Coal Yard	Dry Fog system/Sprinklers
2	Coal Handling Plants/System	Dust extraction system/Dry fog system
3	Coal Handling Area	Dust extraction system/Dry fog system
4	Coal Transfer Points	Dust extraction system/Dry fog system
5	Coal bunkers/ Secondary crusher house	Dust extraction system
6	Coal transfer house	Dust extraction system
7	Boiler (Dust Control)	ESP/Bag filters
8	Boiler(Emission Dispersion)	220 Meter
9	DM Plant	Neutralization pit
10	Domestic Effluent	Effluent treatment plant
11	Fly Ash Storage Silos	Vent Bag filter
12	Fly Ash/Bottom Ash Disposal	HCS D
13	Vehicle Movement	Sprinklers/Tarpaulin covering

2. Waste Management

Solid Waste: Ash is used in construction of NHAI (National Highways Authority of India) as per Fly Ash Notification 3rd November 2009 and amendment from time to time, issued by Ministry of Environment & Forest and Climate Change (MoEF & CC).

Domestic Waste: Domestic waste water generated at site is being treated by STP and re-used for green belt development.





MISCELLANEOUS

Any other particular is respect of environment protection and abatement of pollution.

1. Good housekeeping is being maintained in and around the power plant, dedicated team is deployed for taking care of upkeep of housekeeping and maintaining cleanliness.
2. To create awareness among the employees by imparting training on environment and pollution control.
3. Selection of best environmental practices and its implementation at the Maruti Clean Coal and Power Limited.
4. Regular cleaning of roads and water sprinkling is being done to minimize fugitive emission.

