



ACB (INDIA) LIMITED

2x 135 MW Kasaipali Power Plant, Kasaipali, P.O.- Jawali,
Tehsil - Katghora, Distt. - Korba (C G) 495445, Tel : 07815-285551(O)
Fax No.:- 07815-285887
Email : 270mw@acbindia.com

Ref: ACBIL/ENV-STATEMENT/2022-23/0539

Dated: 21.09.2023

To

✓ **The Member Secretary,**
Chhattisgarh Environment Conservation Board,
Paryavas Bhavan, North Block, Sector-19,
Atal Nagar, District - Raipur- 492002
Chhattisgarh.

Sub:- ACB (India) Limited, 2X135 MW Thermal Power Plant, Village-Kasaipali,
Tehsil-Katghora, District-Korba (C.G):- **Submission of Environmental
Statement (Form-V) for the financial year 2022-23- reg.**

Ref.:- Consent to Operate Letter no. 5471/TS/CECB/2022 (Water) Naya Raipur Atal
Nagar Dated 15/11/2022 and 5472/TS/CECB/2022 (Air) Naya Raipur Atal
Nagar Raipur, Dated 15/11/2022.

Dear Sir

We hereby submit the Form-V duly filled with regard to the Environmental Statement
for our ACB (India) Limited, 2X135 MW Thermal Power Plant, Village-Kasaipali,
Tehsil- Katghora, District-Korba (C.G) financial year 2022-23.

The necessary annexures are enclosed along with Form V, Kindly acknowledge on the
receipt of the same.

Thanking You,

Yours faithfully,

For, ACB (India) Limited.

Authorized Signatory

Encl: As Above.

Copy to: Regional Officer, Chhattisgarh Environment Conservation Board, Korba, (C.G.).



ANNEXURE-XII (Refer page-25)

ENVIRONMENTAL STATEMENT FORM –V

Environment (Protection) Rules 1986

&

Environment (Protection) Amendment Rules 1993

(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
Group Head – Power
ACB (India)Limited,
7th Floor Ambience Mall, Ambience Island,
NH-C8, Gurgaon-122010, Haryana.**
2. Industry Category : **Red**
3. Production Capacity : **2x135 MW**
4. Year of Establishment : **22 December 2008**
5. Date of last Environmental Statement submitted. : **15.09.2022**
(Vide Letter No. ACBIL/ENV/2021-22/487)

PART-B

Water and Raw Material Consumption:

I. Water Consumption in m³/d

- Process** : 806 m³/d
Cooling : 8036 m³/d
Domestic : 400 m³/d

Name of Products	Process water consumption per unit of products	
	During the previous financial Year (2021-22)	During the Current financial Year (2022-23)
Power Generation	2.89 M ³ /KWh	2.80 M ³ /KWh

II. Raw Material Consumption

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)
Washery Reject Coal	1553125.33 MT	1156241.00 MT
LDO	442 KL	547 KL
	Specific consumption	
Washery Reject Coal	1.12 Kg/KWh	1.01 Kg/KWh
LDO	0.303 ml/Kwh	0.48 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	
	Ambient Air-	PM ₁₀ Level 24 Hourly Limit- 100 µg/m ³	PM _{2.5} Level 24 Hourly Limit- 60 µg/m ³	SO ₂ Level 24 Hourly Limit-80 µg/m ³	NO ₂ Level 24 Hourly Limit- 80 µg/m ³		CO Level 1 Hourly Limit-04 mg/Nm ³
1.Air		64	33	20	25	0.2	Ambient air quality is being measured in monthly basis and all values are within limits as per NAAQMS, 2009.
	Stack Emission-	Total Matter 50mg/Nm ³	Particulate Limit- 50mg/Nm ³	SO ₂ Level Limit- 600 mg/Nm ³	NO ₂ Level Limit-450 mg/Nm ³	CO Level 1 Hourly Limit-04 mg/Nm ³	
		39.4		298.6	204.8	0.4	
2.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 operations.						

PART-D

Hazardous Waste:

(As specified under Hazardous Waste (Management& Handling rules, 1989/ Hazardous Waste (Management& Handling Transboundary Movement) Rules , 2008/ Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016)

Hazardous Wastes	Total Quantity(Kg)	
	During the previous financial year(2021-2022)	During the current financial year(2022-2023)
Form Process (Used/Spent Oil)	0.51 KL	0.84 KL
Waste Residue Containing Oil	0.97 Ton	Nil
Spend ion exchange resin containing toxic metal	0.335 MT	Nil
Form Pollution Control Facility	NIL	Nil





PART-E

Solid Waste: Fly Ash

Solid Wastes		Total Quantity(MT)	
		During the previous financial year(2021-2022)	During the current financial year (2022-2023)
a.	From Process	867030 MT(Total Ash)	646300 MT (Total Ash)
b.	Form Pollution Control Facility	520218 MT (Fly Ash)	387780 MT (60 % Fly Ash)
		346812 MT (Bottom Ash)	258020 MT (40 % Bottom Ash)
c.	Quantity recycled of re-utilized within the unit.		
I	Agriculture.	0.00 MT	0.00 MT
II	Cement.	0.00 MT	0.00 MT
III	Bricks Making	60125.00 MT	24000.00 MT
IV	Land Filling	337649.00 MT	187000.00 MT
V	Others	0.00 MT	0.00 MT
VI	Road Construction	469256.00 MT	436000.00 MT
VII	Disposed in Ash Dyke.	0.00 MT	0.00 MT

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. 16.80 Lakhs/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.
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 **4.8 MLD** and Sewage Treatment Plant (STP) with a capacity of **0.06 MLD** 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. 74.00 Lakhs**.
3. Cost towards ETP/STP maintenance was **Rs.1.55 Lakhs/Annum**
4. Cost spent towards development and maintenance of Greenbelt development in and around the factory premises was **Rs.0.50 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. **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 ACB (India) Limited.
4. Regular cleaning of roads and water sprinkling to minimize fugitive emission.

Authorized Signatory

Date: 21.09.2023



-----X-----XX-----X-----