ACB (INDIA) LIMITED

30MW Chakabura Power Plant, P.O.-Jawali Tehsil-Katghora
Dist - Korba (C.G.) 495445, Tel : 07815-285511, 285512
Fax 07815-285884, 285885, Email : 2x30mw@acbindia.com
Email : aryanpower30@gmail.com

Ref: ACBIL/ENV-STATMENT/2022-23/ 076 **Dated: 09.09.2023**

To

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

Sub:- ACB (India) Limited, 2X30 MW Thermal Power Plant (Unit-I & II), Village-Chakabura, 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. 7236/TS/CECB/2022 (Water) Naya Raipur Atal Nagar Dated – 07/01/2022 and 7237/TS/CECB/2022 (Air) Naya Raipur Atal Nagar Raipur, dated-07/01/2022.

Dear Sir

We hereby submit the Form-V duly filled with regard to the Environmental Statement for our ACB (India) Limited, 2X30 MW Thermal Power Plant, Village-Chakabura. 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.

REGIONAL OFFICE, C.G. ENVIRONMENT CONSERVATION BOARD
No. 2469
Dt. 12/09/23
KORBA (C.G.)

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
(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 : **2X30MW**
4. Year of Establishment : **Unit I: 2007**
   Unit II: 2014
5. Date of last Environmental Statement submitted. : **09.09.2022**

PART-B

Water and Raw Material Consumption:

I. Water Consumption in m^3/d

Process : **149m^3/d**

Cooling : **2852m^3/d**

Domestic : **94m^3/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	**3.17KL/MW**	**2.98KL/MW**

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	**294446 MT**	**572172 MT**
LDO	**5.37KL**	**21.118 KL**
	Specific consumption	
Washery Reject Coal	**1.40 kg/kWh**	**1.51 kg/kWh**
LDO	**0.0248 ml/kWh**	**0.0557 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 PollutantsDischarged(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 operations.**		**All parameters are within limits**
Air	**Stack Emission**	**SPM**	**44.4 mg/NM^3**	**43.5 mg/NM^3**	**All parameters are within limits**
		SO_2	**288.6 mg/NM^3**	**254 mg/NM^3**	
		NO_2	**174.8 mg/NM^3**	**150 mg/NM^3**	
		CO	**5.2 mg/NM^3**	**5.0 mg/NM^3**	
	Ambient Air	**PM 10**	**80µg/m^3**	**67.2µg/m^3**	**All parameters are within limits**
		PM 2.5	**40µg/m^3**	**32.1µg/m^3**	
		SO_2	**14µg/m^3**	**17.2µg/m^3**	
		NO_2	**32µg/m^3**	**30.0µg/m^3**	
		CO	**0.8µg/m^3**	**1.0 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)	**1.305 KL**	**2.355 KL**
Form Pollution Control Facility	**NIL**	**NIL**

PART-E

Solid Waste:

Solid Wastes			Total Quantity(MT)	
			During the previous financial year(2021-2022)	During the current financial year (2022-2023)
a.	**From Process**		**Total Ash: 177607 MT**	**Total Ash: 357659 MT**
b.	**Form Pollution Control Facility**		**Fly Ash:117306 MT** **Bottom Ash:60301 MT**	**Fly Ash:235883 MT** **Bottom Ash:121776 MT**
c.	**Quantity recycled of re-utilized within the unit.**			
	I	**Agriculture.**	**Nil**	**0.00 MT**
	II	**Cement.**	**Nil**	**0.00 MT**
	III	**Bricks Making**	**12920 MT**	**22380MT**
	IV	**Land Filling**	**34955 MT**	**0.00 MT**
	V	**Others**	**0.00 MT**	**0.00 MT**
	VI	**Road/Highway**	**129732 MT**	**335279 MT**
	VII	**Disposed in Ash Dyke.**	**0.0 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. 9.08 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 **1000 KLD** and Sewage Treatment Plant (STP) with a capacity of **10 KLD** are being operated efficiently and meet the standards prescribed by the board and the treated water is being used plantation, dust separation/water sprinkling, etc.
2. Cost spent towards housekeeping in factory premises in order to prevent fugitive emission was **Rs. 4 Lakhs.**
3. Cost towards ETP/STP maintenance was **Rs.2.0 Lakhs/Annum**
4. Cost spent towards development and maintenance of Greenbelt development in and around the factory premises was **Rs. 1.5 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)	90 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	HCSD
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 ACB (India) Limited.
4. Regular cleaning of roads and water sprinkling to minimize fugitive emission.

ACB (INDIA) LIMITED 2x30MW