



# ACB (INDIA)LIMITED

Ratija Washery, Village - Ratija, Taluka - Pali, Korba  
CIN : U10102DL1997PLC085837  
GSTIN : 22AABCA0043K1ZB

Ref: ACBIL/ENV-STATEMENT/2022-23/ 176

Dated: 16.08.2023

To

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

**Sub:-** ACB (India) Limited, 11 MTPA Ratija Coal Washery, Village -Ratija, Post - Nonbirra, Tehsil-Pali, Dist.-Korba, Chhattisgarh :- **Submission of Environmental Statement (Form-V) for the financial year 2022-23- reg.**

**Ref.:-** Consent to Operate Letter no. 8951/TS/CECB/2022 (Water) Naya Raipur Atal Nagar Dated - 08/03/2022 and 8952/TS/CECB/2022 (Air) Naya Raipur Atal Nagar Raipur, dated-08/03/2022.

**Dear Sir**


We hereby submit the Form-V duly filled with regard to the Environmental Statement for our ACB (India) Limited, 11 MTPA Ratija Coal Washery, Village -Ratija, Post - Nonbirra, Tehsil-Pali, Dist.-Korba, Chhattisgarh. (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.).



Address for Correspondence : D - 24, Urja Nagar, Behind SECL, Guest House, P.O. - Govra, Distt. - Korba - 495 452, Tel/Fax : 07815 274447

Corporate Office : 7th Floor Corporate Tower Ambience Mall, NH - 8 Gurgaon - 122001, Tel. - 0124-2719000

Read Office : C-102 New Multan Naar. Rohtak Road. New Delhi - 100 056 (India)



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

**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

**PART-A**

- |   |  |
|---|--|
| 1. Name and address of the Owner/Occupier of the industry Operational or Process. | : <b>Shri. S.S. Verma</b><br><b>Director – Technical (Operation)</b><br><b>ACB (India)Limited</b><br><b>Regional Headquarters, Village-Chakabura,</b><br><b>Post.-Jawali, Tehsil-Katghora, District-Korba,</b><br><b>Chhattisgarh- 495445.</b> |
| 2. Industry Category  | : <b>Orange</b>  |
| 3. Production Capacity  | : <b>11 MTPA</b>   |
| 4. Year of Establishment  | : <b>1999</b>  |
| 5. Date of last Environmental Statement submitted.                                | : <b>20.09.2022</b>  |

**PART-B**

**Water and Raw Material Consumption:**

**I. Water Consumption in m<sup>3</sup>/d**

Process	: <b>138.10 m<sup>3</sup>/d</b>
Cooling	: <b>Nil</b>
Domestic	: <b>3.5 m<sup>3</sup>/d</b>
Dust suppression/Plantation	: <b>12.0 m<sup>3</sup>/d</b>

Name of Products	Process water consumption per unit of products	
	During the previous financial Year (2021-22)	During the Current financial Year (2022-23)
<b>Clean Coal</b>	<b>16.38 Litre/tonnes</b>	<b>16.45 Litre/tonnes</b>

**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)
<b>Raw Coal</b>	<b>Raw Coal: 4908611.72 tonnes</b>	<b>Raw Coal: 3064094.44 tonnes</b>
	<b>Clean Coal: 4163549.82 tonnes</b>	<b>Clean Coal: 2560790.30 tonnes</b>

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	
<b>Water</b>		<b>Plant is operating on Zero Discharge Concept (Closed Water Circuit System). Settling tank water sample to be tested at NABL accredited lab. All the values are within prescribed norms.</b>			
<b>Air</b>	<b>Stack Emission</b>	NA	NA	NA	
	<b>Ambient Air</b>	PM 10	86 µg/m <sup>3</sup>	83 µg/m <sup>3</sup>	All parameters are within limits
		PM 2.5	38 µg/m <sup>3</sup>	36 µg/m <sup>3</sup>	
		SO <sub>2</sub>	24 µg/m <sup>3</sup>	23 µg/m <sup>3</sup>	
		NO <sub>2</sub>	31 µg/m <sup>3</sup>	27 µg/m <sup>3</sup>	

**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)
<b>Form Process(Used/Spent Oil)</b>	NIL	NIL
<b>Form Pollution Control Facility</b>	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)
<b>a.</b>	<b>From Process</b>	745061.90 Tonnes	5,03,304.14
<b>b.</b>	<b>Form Pollution Control Facility</b>	Nil	Nil
<b>c.</b>	<b>Quantity recycled of re-utilized within the unit.</b>		
<b>I</b>	<b>Solid</b>	Nil	Nil
<b>II</b>	<b>Disposal</b>	739550.77 Tonnes	5,07,522.56



### 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 generation from the Coal Washery is nil.

**Solid Waste:** There is no impact of envisaged due to the solid waste generation. Coal rejects will be sent to Thermal Power Plant and will be used as a fuel. No impact is envisaged on the water resources due to the discharge of waste water, since plant would operate on zero discharge concepts. However, the suspended solid removed in the different stage clarification process would be generated in the form of sludge. These are also combustible to the Thermal Power Plant for consumption in power generation

### PART-G

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

1. Dust suppression system is installed at coal transfer point.
2. Rain gun type water sprinklers are installed in the Coal Stockyards for the control of fugitive dust.
3. Water Sprinkling/Mist canyons are installed at unloading hopper.
4. Rain water harvesting system is being practices in the plant premises, which helps in ground water recharging.
5. Good housekeeping is maintained within the plant premises.
6. 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.
7. Dust extraction systems have been installed at Coal feed, screen, crusher area and all the transfer point to arrest the fugitive emission.
8. Roof sheeting and side cladding in conveyor are installed to control fugitive dust.
9. Zero water discharged systems has been adopted is working efficiently.

Because of adaptation of aforementioned methods, the quality of emission and discharges are maintained below the permissible limits prescribed by the MoEF &CC/CPCB/CECB.

### PART-H

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

Plant is regularly monitoring air quality, emission, noise level, water quality in and around the plant premises. All the emission and discharges are meeting the permissible limits as prescribed by MoEF/CPCB/CECB. It is proposed to further strengthen the monitoring and reporting process. Ash water recovery system is installed for further reuse of ash water.





**Additional measure:**

1. Wheel washing system is installed equipment's for cleaning the tires of truck to control and eliminated pollution of the Road/Coal Washery.
2. Wind Breaking Screen has been installed around the coal washery for Dry Fog Dust Suppression and control of fugitive emission.

**PART-I**

**MISCELLANEOUS:**

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

**1. List of Pollution Control equipment are as follows:**

- Regular monitoring carried by third party NABL accredited lab. Internal roads have been made pucca and are being regularly watered / washed to maintain clean air.
- Concept of Mass Housekeeping is being practiced in the plant. Good housekeeping is being maintained in and around the Washery area.
- To create awareness among the employees by imparting training on environment and pollution control.
- Sourcing of best environmental practices and its implementation at the Ratija Coal Washery
- Regular cleaning of the roads by deploying dedicated manpower and water sprinkling thereafter to minimize fugitive emission.

S. No.	Plant Activities	Pollution Control Measure
1	Coal Stock Yard	Rain guns/Sprinkling System
2	Coal Handling Systems	Dust Suppression System/Dust Extraction Systems
3	Coal Handling Area	Coal settling Pit
4	Coal Transfer Point	Dust extraction System/Dust Suppression Systems/Water Sprinkling Systems
5	Coal bunker / screen / Coal feed	Sprinkling Systems / Dust extraction
6	Coal Transfer House	Sprinkling Systems
7	Vehicle Movement	Water sprinkling systems by water tanker.
8	Fines /water treatment circuit	Water only cyclones, high frequency screens, thickener, belt press
9	Washing equipment	Heavy Media Cyclone (3nos.)
10	Cleaning the tires of truck	Wheel washing system
11	For Dry Fog Dust Suppression	Wind Breaking Screen

**Green Belt Development:**

Extensive tree plantation has been done in and around the plant premises.



### **MISCELLANEOUS**

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

1. Good housekeeping is being maintained in and around the 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.