

# FORM-V

Environmental statement for the financial year ending 31<sup>st</sup> March, 2025

## Part-A

- i. Name & Address of the owner/occupier of the industry operation or process. Sri Awadh Kishore Pandey  
General Manager, Lakhanpur Area, MCL.  
PO: Bandhbahal  
Dist: Jharsuguda, Odisha  
PIN-768211
- ii. Industry Category Coal Washery
- iii. Production Capacity (Production in the year 2024-25) 10 MTPA (Raw coal throughput) (5364724.0 tonnes of raw coal processed in 2024-25)
- iv. Year of establishment Commercial Operation started in 2024
- v. Date of the last environmental Statement submitted. 30 September, 2024

## Part-B

### Water & Raw Material Consumption

Note: Average Water Consumption (kl/day) for the whole year is given. Raw material consumption is given per unit of coal produced.

#### 1. Water Consumption (m<sup>3</sup>/day):

	Water consumption in 2023-24	Water consumption in 2024-25
Process	483.36 m <sup>3</sup> /day	600.96 m <sup>3</sup> /day
Cooling	Not Applicable	Not Applicable
Domestic	Nil	Nil

Name of the product	Process water consumption per unit of product output (m <sup>3</sup> /tonne) During the year 2023-24	Process water consumption per unit of product output (m <sup>3</sup> /tonne) During the year 2024-25
Clean Coal	0.06 m <sup>3</sup> /tonne	0.04 m <sup>3</sup> /tonne

#### 2. Raw Material Consumption (per tonne of coal)

SL NO	Name of Raw Material	Name of the Product	Raw Materials consumption per unit production output	
			During the year 2023-24	During the year 2024-25
1	Raw Coal	Clean Coal	1.44 MT of Raw coal consumed for 1 MT of Clean Coal	1.24 MT of Raw coal consumed for production of 1 MT of Clean Coal
2	Magnetite		0.5 kg/tonne	0.2 kg/tonne

## 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 in discharges (mass/volume)	Percentage variation from prescribed standards with reasons.
<b>Water</b>			
	<b>Results</b>		
pH	6.63		The Washery uses zero discharge closed circuit.
O & G (mg/l)	< 1		
TSS (mg/l)	91		
COD (mg/l)	180		
BOD (mg/l) (3 days 27° C)	26		
Phenolics			
<b>Air</b>			
	<b>Results</b>	<b>Limit</b>	Within prescribed limits
PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	36.2	60	
PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	69.5	100	
SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	9.8	80	
NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	15.2	80	

## Part-D

### Hazardous Wastes

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

Hazardous Waste	Total quantity	
	During the last financial year (2023-24)	During the current financial year (2024-25)
(a) From Process	Nil	Nil
(b) From Pollution control facilities	Nil	Nil

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## Part-E

### Solid Wastes

SL. No	Particulars	Total quantity
		During the current financial year (2024-25)
1.	From process a. Tailings b. Scrap materials	a. 10,51,769 Metric Tons (Rejects) b. Nil
2.	Quantity recycled or reutilized within the unit/sold/ disposed	7449.54 Metric Tons (Rejects Sold)

## Part-F

Please specify the characteristics (in terms of concentration & quantum) of hazardous as well as solid waste and indicate the disposal practice adopted for both these categories of wastes.

### 1. Hazardous Wastes:

Name of Hazardous Wastes	Quantity generated in the year 2024-25	Disposal Practices
Used Oil	Nil	Nil

### 2. Solid Waste:

SL. No	Solid Waste	Quantity generated in the year 2024-25	Disposal Practices
1.	Tailings	10,51,769 Metric Tons (Rejects)	7449.54 Metric Tons (Rejects Sold)
2.	Steel Scrap and other materials	Nil	Nil

## Part-G

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

Washing technology of IB Valley Coal Washery (10 MTPA) is based on Heavy Media Separation (HM Cyclone) and the washing circuit is a closed circuit with zero discharge. Raw coal will be transported by covered Belt Conveyors and washed coal produced in the washery will be transported to SILO by belt conveyors.

### Details of Existing Air, Water and Noise Pollution Control Measures

#### I. Air Pollution Control Measures -

- a. Bag Filters have been installed in each of the 4 crusher houses to reduce particulate matter content.
- b. Sprinklers have been installed at strategic locations for dust suppression.
- c. Plantation of trees has been done in line with the terms and conditions of EC document.

II. **Water Pollution Control Measures** -

- a. The designed washing circuit is a closed circuit with zero discharge.
- b. Settling ponds have been constructed for settling of fine coal particles so that the water may be used again in washery.
- c. Garland drains have been constructed for drainage of surface runoff from the washery.

III. **Noise Pollution Control Measures** -

- a. Rubber liners have been used in all chutes to reduce noise.
- b. Noise is being monitored at crusher and vibrating screen house on regular basis.

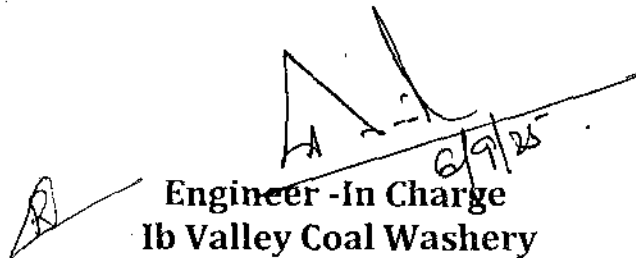
## **Part-H**

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution - The proposed SILO for washed coal will be made operational to avoid dust generation during washed coal transportation.

*Details of Additional Proposed Measures for Air, Water & Noise Pollution Controls*

## **Part-I**

Any other particulars for improving the quality of the environment - All the specific terms and conditions of the EC are being complied with.

  
Engineer -In Charge  
Ib Valley Coal Washery