AMELIA NORTH COAL MINE

A UNIT OF JAIPRAKASH POWER VENTURES LIMITED

ISO CERTIFIED : 9001: 2015, 14001: 2015 & 45001: 2018

QUALITY ENVIRONMENT HEALTH & SAFETY

JAIPRAKASH POWER VENTURES LIMITED

Ref.: JPVL/Amelia(N)/Mines/2025-26/ 181

Date: 26.09.2024

To,
The Member Secretary,
M.P. Pollution Control Board,
E-5, Arera Colony, Paryavaran Parisar,
Bhopal (M.P.)

Subject: Submission of Environment Statement report (Form–V) for the Financial Year 2024-25.

Sir,

We are submitting herewith the Environment Statement Report (Form-V) of Amelia (North) Coal Mine of M/s Jaiprakash Power Ventures Limited, located at Village - Majhauli, P.O. - Bandha, Tehsil - Deosar, District - Singrauli (M.P.) under Rule 14 of Environment Protection Rules, 1986 for the financial year 2024-25.

Thanking you

Yours faithfully,

(Authorized Signatory)

Mittal 26.09.2025 26.09.2025

CC to: Regional Officer, Regional Office, Madhya Pradesh Pollution Control Board – Singrauli (M.P.).

Encl.:- Duly filled Environment Statement in (Form – V)

Site : Amelia(North)CoalMine,Vill.Majhauli,P.O.-Bandha,Tehsil-Deosar, Distt. - Singrauli, Madhya Pradesh, India - 486886 Ph.:+91 9685781707-09, E-mail:amelianorth.jpvl@jalindia.co.in

Corp.Office : 'JA House', 63 Basant Lok, Vasant Vihar, New Delhi-110057 (India) Ph.:+91(11)26141540,26147411Fax:+91(11)26145389,26143591

Regd.Office : Complex of Jaypee Nigrie Super Thermal Power Plant, Nigrie, Tehsil Sarai, District Singrauli-486669 (Madhya Pradesh) Ph.: +91 (7801) 286021-39 Fax: +91 (7801) 286020 **Website:**www.jppowerventures.com **E-mail:**jpvl.investor@jalindia.co.in **CIN:**L40101MP1994PLC042920

JAYPEE GROUP

FORM – V
(See rule 14)

Environmental Statement for the financial year from 1st April 2024 ending the 31st March 2025

PART – A

I.	**Name and address of the owner/ occupier of the industry operation or process.**	**M/s Jaiprakash Power Ventures Limited,** **Address:** **1. Site Office:** Amelia (North) Coal Mine, Village- Majhauli, P.O. – Bandha, Tehsil – Deosar, Distt. – Singrauli (M.P.) 486886. **2. Reg. Office:** Jaypee Nigrie Super Thermal Power Plant, Village – Nigrie, P.O. – Nigrie, Tehsil – Sarai, Distt. – Singrauli, (M.P.) 486884
II.	**Industry category Primary ----(STC code) Secondary.-----(SIC Code)**	Red Category and Large Scale.
III.	**Production capacity, Units**	3.92 MTPA Coal
IV.	**Year of establishment**	May 2015
V.	**Date of the last environmental statement submitted**	Dated: 29.08.2024

PART - B
WATER AND RAW MATERIALS CONSUMPTION

S.No.	Particulars	
1.	**Water consumption (m^3/Day)**	
(a)	Process Industrial	46.6
(b)	Cooling/ Sprinkling	887.0
(c)	Domestic Purpose	80.2

WATER CONSUMPTION AGAINST PRODUCTION

Nature of products	Process Water consumption per unit of product output m^3/MT	
	During the previous financial year 2023-2024	During the current financial year 2024-2025
Coal	0.083	0.087

RAW MATERIAL CONSUMPTION

Name of the Raw Material	Name of the product	Consumption per unit of product output	
		During the previous financial year 2023-2024	During the current financial year 2024-2025
Explosive	Coal	0.0028 MT/ M Tonnes	0.0036 MT/ M Tonnes
POL (HSD)	Coal	5.19 Liters/ Tonnes	6.03 Liters/ Tonnes

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT (PARAMETER AS SPECIFIED IN THE CONSENT ISSUED)

S. No.	Pollutants	Quantity of Pollutants Discharged (Mass / day) (Tonne/ day)	Concentrations of Pollutants in discharges(Mass / Volume)(mg/Nm^3)	Percentage of variation from prescribed standard with reasons
(a)	Water			
(i)	Domestic	Zero Discharge		
(ii)	Process			
(b)	Air			
	Ambient air monitoring			

Annual Average Ambient Air Quality Monitoring Data

Location	SPM (µg/m^3)	RSPM(µg/m^3)	NO_X (µg/m^3)	SO_2 (µg/m^3)
Mine Site (Core Zone)	143.88	77.03	25.21	8.97

Limits are as per Table-I of S.No. 90 (Standards for Coal Mines) of Schedule -I under Rule 3 of Environment Protection Rules, 1986.

Location	$PM_{2.5}$ (µg/m^3)	PM_{10} (µg/m^3)	NO_X (µg/m^3)	SO_2 (µg/m^3)
Office Site – Majhauli	35.50	54.68	18.23	7.55
Village - Kunda	32.10	51.22	14.28	5.96
Village - Manihari	33.30	52.64	15.19	6.56

(As per AAQ Standards vide notification G.S.R. 826 (E), New Delhi, dated: 16.11.2009)

PART – D

HAZARDOUS WASTES
(As specified under Hazardous and Other Wastes (Management, and Trans-boundary Movement Rules 2016)

Hazardous Wastes	Total Quantity (MT)	
	During the previous financial year 2023-2024	During the current financial year 2024-2025
(a) Used Oil (5.1)	60.02	52.18
(b) From pollution control facilities	Nil	Nil

PART – E

SOLID WASTE

		Total Quantity	
		During the current financial year 2023-2024	During the current financial year 2024-2025
a)	From process	28.23 Million Cum. (Overburden Waste)	32.89 Million Cum (Overburden Waste)
b)	From pollution control facilities	Nil	Nil
c)	(i) Quantity recycled or reutilized within the Unit.	Nil	Nil
	(ii) Sold	Nil	Nil
	(iii) Disposed (As External Dumps and Backfilling)	28.23 Million Cum	32.89 Million Cum

PART - F

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

Hazardous waste: Used /waste oil generated from the different locations is being collected in close drums/ barrels and then stored at Hazardous waste storage area that has been made as per the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016. These hazardous wastes are sold out to authorized recyclers.

Solid Wastes: Solid wastes in the mine are in form of overburden material which comprises of sandstone, conglomerates, sandy and clayey shale. Total Overburden material that has been generated is 32.89 Million cum. The quantity of 32.89 Million cum has been dumped in internal dump (Backfilling).

PART - G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

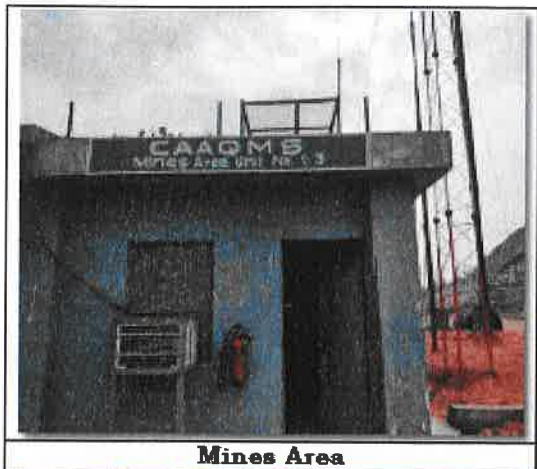
The brief summary of Pollution Control Measures taken for this mine is as under:

In order to carry out mining operations in an environmental friendly and planned manner, the sources of pollution were identified and measures were taken to keep them within permissible limits.

1 .Controls of measure for Air Pollution:

For control of air pollution, measures taken are:

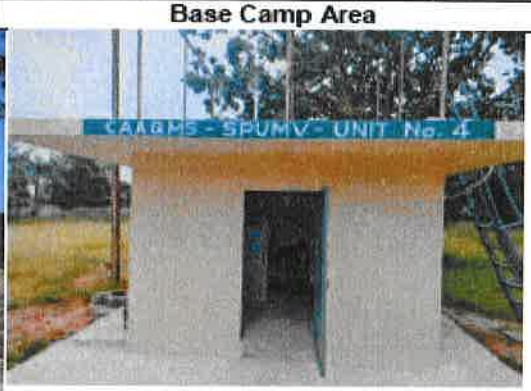
- Wet drilling while drilling holes for blasting;
- Regular water sprinkling on coal faces, benches, coal stocks, transport roads and haul roads;
- Measures of reclaiming external overburden dumps (Geotechnical &Biological Reclamation);
- Tree plantation din overburden dumps.
- Regular cleaning of coal transportation road.
- Four nos. of ambient air quality monitoring stations have been established in core zone (Mine Site) and buffer zone (WTP Township, Village Kunda & Village Manihari).
- Four (04) Nos. CAAQMS (Continuous Ambient Air Quality Monitoring System) have been installed at Mines Area, CHP Area, Base Camp and near Village Side Area.



Mines Area

Base Camp Area

CHP Area



Nr. Majhauli Village

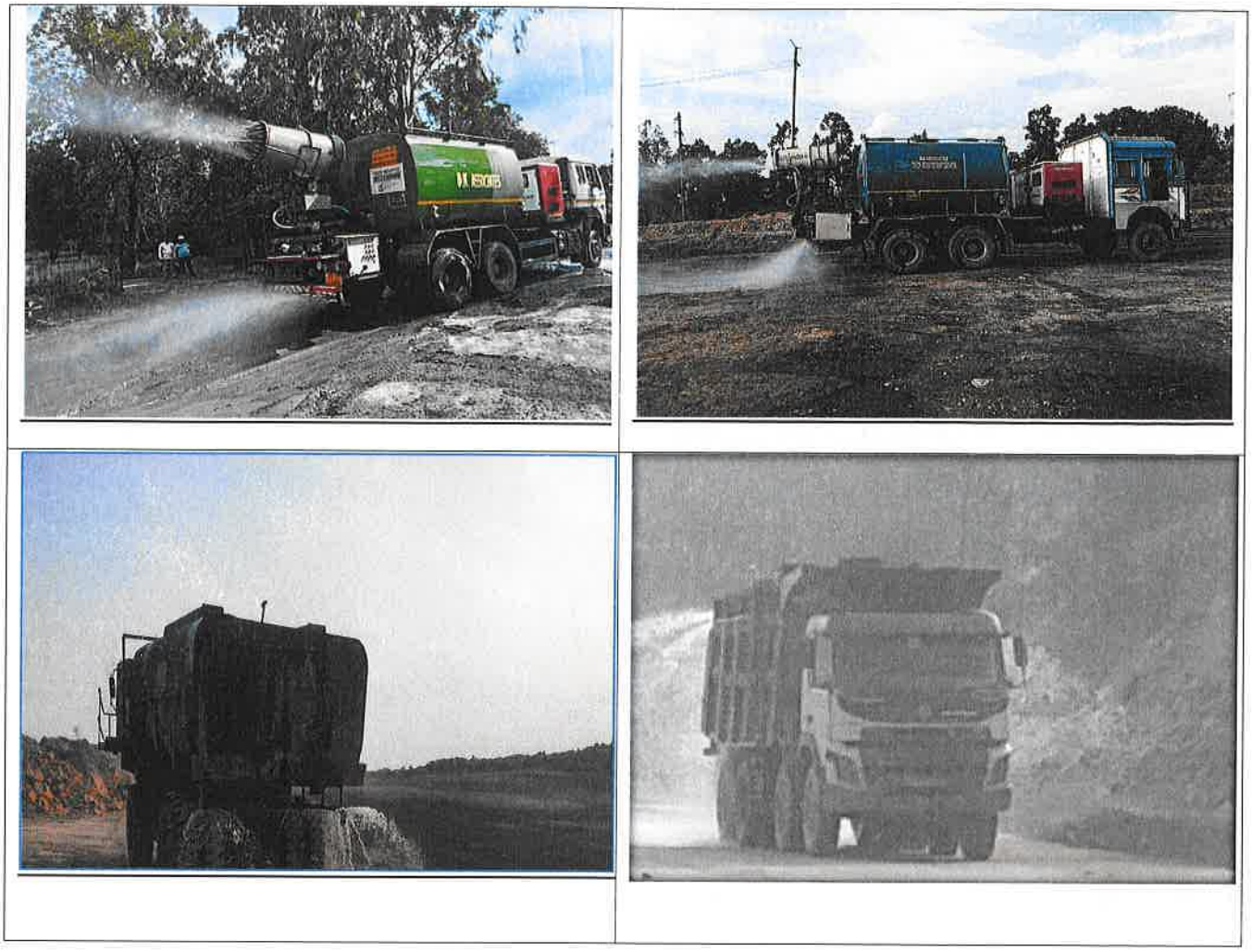
Display Board

2. Implementation Status:

- 02 Nos. high pressure water spraying systems have been installed at feeder breaker and apron feeder (unloading points).
- 03 Nos. high pressure water spraying systems have been installed at transfer towers, stacker and reclaimer and rapid loading system (Coal Silo).
- A network of static sprinklers has been installed at coal stock yard in CHP area for controlling fugitive emission.
- All Conveyor belts have been covered with corrugated steel sheet on sides & top. This will prevent exposure of coal moving on belt from blowing wind.
- Curtain made of used belt conveyors have been provided at silo loading point.
- Regular water spraying is being done by 10 nos. mobile water sprinklers.
- Mist fog cannons (Truck Mounted) are in operation in the Mines, haul road and CHP area.
- High pressure water spraying system has been installed at stacker and reclaimer for controlling the fugitive dust emission.
- Static Water Sprinklers have been installed in length of 2600 meters along the coal transport road from mine to CHP and in operation.
- 1,28,378 nos. plants have been planted in internal Dump& Other areas during FY 2024-25.
- Wind Breaking Screen 54m long and 3 to 6m height at Coal Unloading Point (Apron Feeder).
- Wind Breaking Wall 200 m long and 5m height has been constructed at Wharf Wall.

PLANTATION PHOTOGRAPHS

WATER SPRINKLING BY MOBILE/MIST FOG CANNON WATER SPRINKLER



G.2. WATER POLLUTION

2. Water Pollution Control Measures

- Mine water seepage is collected in sumps for settling of suspended materials. After settling it is used for spraying in the mine working area and plantation by mobile water tankers.
- Garland drains of length 49.55 km have been constructed with proper gradient and size along the road side and around the dump area.
- 18 Nos. of siltation ponds have been constructed to arrest silt and sediments flown from dumps.
- Retaining walls of 3.2 kilometers long (2 meter height, 2.45 meter width at base and 0.45 meter at the top) at the toe of external overburden Dump 'A' & 'B' have been constructed to check runoff and siltation.
- Besides the retaining walls, 3730 meters of Gabion walls have been constructed at toe of external overburden Dump 'A' & 'B' with adequate height (3-4 meter) and width (1-3 meter).

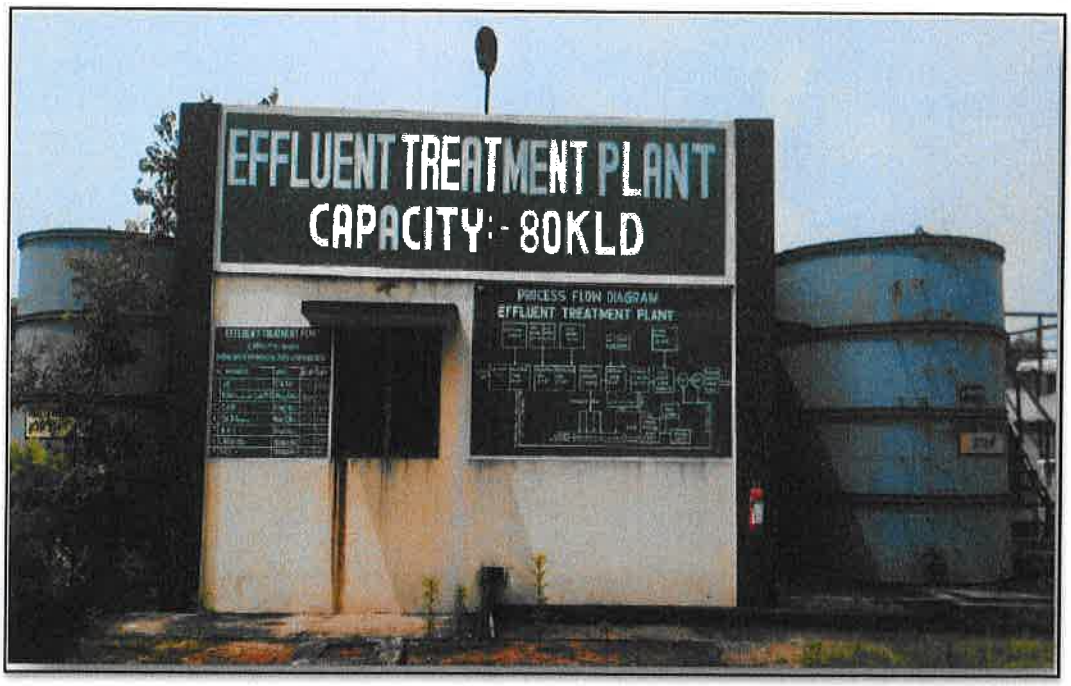
RETAINING WALL/GABION WALL/SETTLING POND

- Domestic waste water is being treated through sewage treatment plant (Capacity: 300 KLD) and treated water is being used in dust suppression, plantation and gardening.

SEWAGE TREATMENT PLANT

EFFLUENT TREATMENT PLANT

- Oil and grease trap has been constructed for workshop effluents.
- Effluent treatment plant (Capacity: 80 KLD) has been established for waste water from CHP and Workshop.



- 5 Nos. rain water harvesting structures have been constructed in residential area.

RAINWATER HARVESTING STRUCTURES

Rain Water Harvesting Pit-01

Rain Water Harvesting Pit-02

Rain Water Harvesting Pit-03

Rain Water Harvesting Pit-04

Rain Water Harvesting Pit-05

G.3. NOISE POLLUTION

3. Implementation Status of noise pollution control measures:

- Mining equipments are kept in good condition to reduce noise level.
- Blasting operation is done during 1.00 PM to 2.30 PM;

- Ear Plugs are being provided to Machine/HEME Operators;

PART - H

Additional measures/ investment proposed for environmental protection including abatement of pollution, prevention of pollution.

Proposed measures for environmental protection, abatement and prevention of pollution:

- Biological reclamation of overburden dump.
- Construction and maintenance of Gabion wall at overburden dumps area as and when required.
- Plantation in open/undisturbed plant area and dump area.

PART - I

Any other particulars for improving the quality of the environment.

The following measures are suggested for Abatement of Pollution and Environmental Protection:

- Biological reclamation of overburden dump.
- Regular maintenance of retaining and gabion walls at toe of external overburden dumps area.
- Plantation in open/ undisturbed plant area and dump areas.
- World Environment Day-2025 celebrated with great fervour and vigour at Amelia (North) Coal Mine with the theme Ending Plastic Pollution, where a week long program was organised and celebrated as Environment week from 02.06.2025 to 07.06.2025.

Date: 26.09.2025

Signature
Name: Maj. Gen. Sanjay Thapa, PVSM (R)
Designation: Joint President
Address: M/s Jaiprakash Power Ventures Limited,
Amelia (North) Coal Mine,
Village – Majhauli, Post Office – Bandha,
Tehsil – Deosar, Distt. – Singrauli, (M.P.)
Pin - 486886