

AMELIA NORTH COAL MINE

A UNIT OF JAIPRAKASH POWER VENTURES LIMITED

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



JAIPRAKASH
POWER VENTURES LIMITED

Ref.: JPVL/Amelia/Mines/2024-25/ 153

Date: 29.08.2024

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


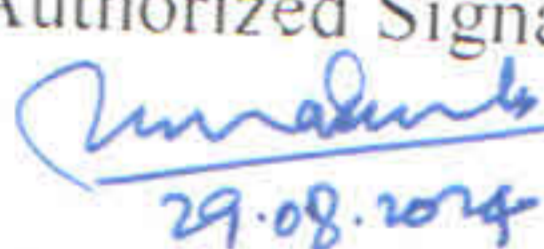
Subject: Submission of Environment Statement in (Form-V) for Amelia (North) Coal Mine, M/s Jaiprakash Power Ventures Limited for Financial Year (2023-24)

Sir,

We are submitting herewith Environment Statement (Form-V) under rule 14 of The Environment Protection Rules, 1986 for the financial period from **1st April 2023 to 31st March 2024** for 3.92 MTPA, M/s Jaiprakash Power Ventures Limited, Amelia (North) Coal Mine at Village – Majhauri, P.O. – Bandha, Tehsil – Deosar, Dist. – Singrauli (M.P.)

Thanking you

Yours faithfully,


(Authorized Signatory)

29.08.24 29.08.2024

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

Encl.:-

1. Duly filled Environment Statement in (Form – V)

Site : Amelia(North)CoalMine,Vill.Majhauri,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-110 057 (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

FORM – V
(See rule 14)

Environmental Statement for the financial year from 1st April 2023 ending the 31st March 2024.

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- Majhauri, 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: 08.09.2023

PART - B

WATER AND RAW MATERIALS CONSUMPTION

S.No.	Particulars	
1.	Water consumption (m ³ /Day)	
(a)	Process Industrial	33.0
(b)	Cooling/ Sprinkling	859.0
(c)	Domestic Purpose	77.1

WATER CONSUMPTION AGAINST PRODUCTION

Nature of products	Process Water consumption per unit of product output m ³ /MT	
	During the previous financial year 2022-2023	During the current financial year 2023-2024
Coal	0.026	0.083


Rajneesh Gaur
Executive Senior Jt. President/ Unit Head
Jaiprakash Power Ventures Limited
Amelia (N) Coal Mine

RAW MATERIAL CONSUMPTION

Name of the Raw Material	Name of the product	Consumption per unit of product output MT/MT	
		During the previous financial year 2022-2023	During the current financial year 2023-2024
Explosive	Coal	0.0038MT/ M Tonnes	0.0028MT/ M Tonnes
POL (HSD)	Coal	5.70 Liters/ Tonnes	5.19 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/m³)	RSPM (µg/m³)	NO_x (µg/m³)	SO₂ (µg/m³)
	Mine Site (Core Zone)	139.53	71.91	25.10	9.18
	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/m³)	PM₁₀ (µg/m³)	NO_x (µg/m³)	SO₂ (µg/m³)
	Office Site – Majhauri	35.47	55.08	18.34	7.62
	Village - Kunda	31.21	50.23	14.05	5.97
	Village - Manihari	32.96	52.03	15.19	6.72
(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 2022-2023	During the current financial year 2023-2024
(a) Used Oil (5.1)	78.44	60.02
(b) From pollution control facilities	Nil	Nil

PART – E

SOLID WASTE

		Total Quantity	
		During the current financial year 2022-2023	During the current financial year 2023-2024
a)	From process	26.86 Million Cum. (Overburden Waste)	28.23 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)	26.86 Million Cum	28.23 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: All used / waste oil generated from the different sites is being collected in close drums/ barrels and then stored at Hazardous waste storage facility centre 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 i.e. P2O Green Refinery LLP and Shree Nakoda Industries.

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 28.23 Million cum. The quantity of 28.23 Million cum has been dumped in internal dump (Backfilling).


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Executive Senior Jt. President/ Unit Head
Jaiprakash Power Ventures Limited
Amelia (N) Coal Mine

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:

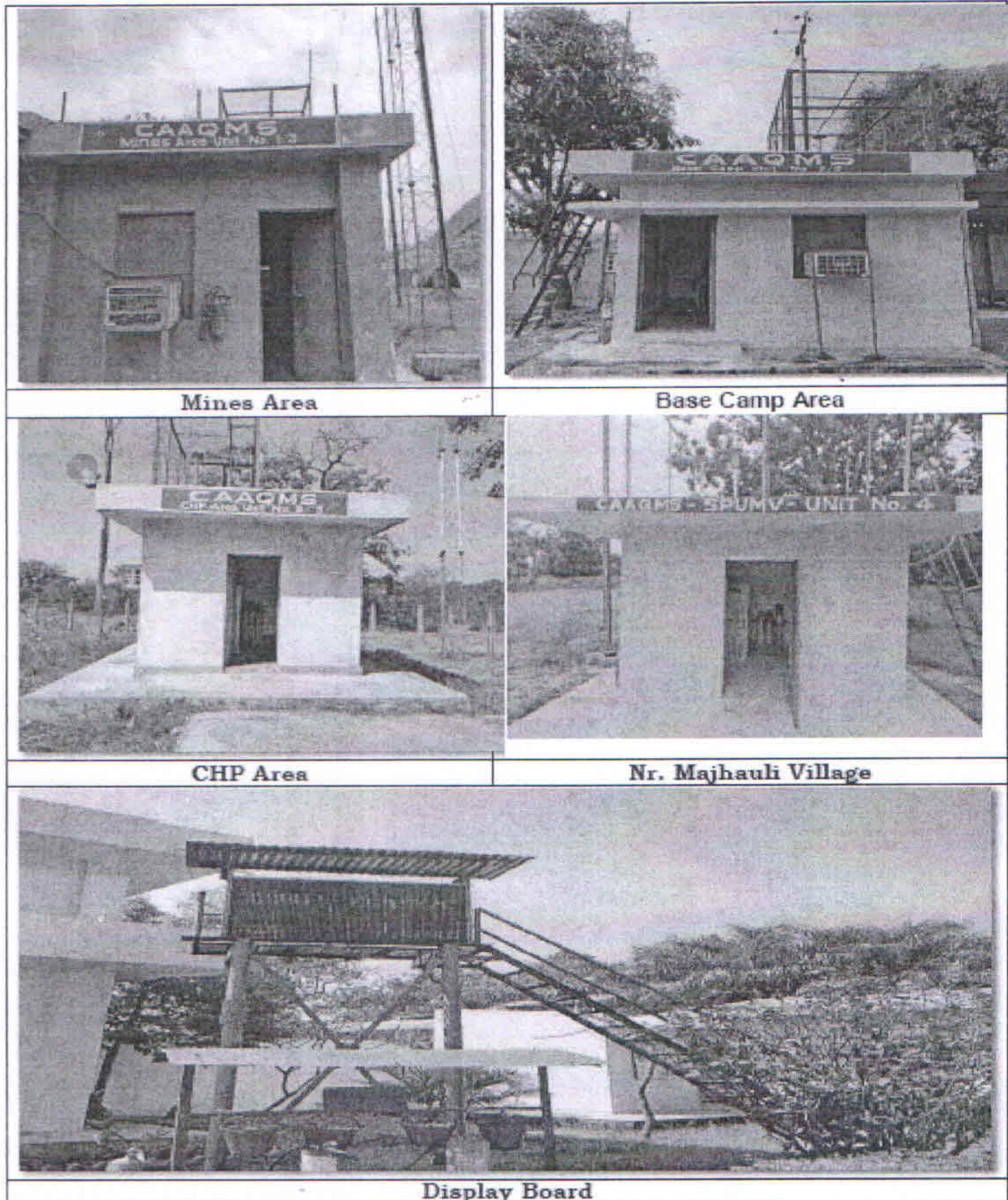
In order to carry out mining operations in an environmental friendly and planned manner, the sources of pollution were identified and measures were taken to keep them within permissible limits.

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 in 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 & Nr. Village Side Area.


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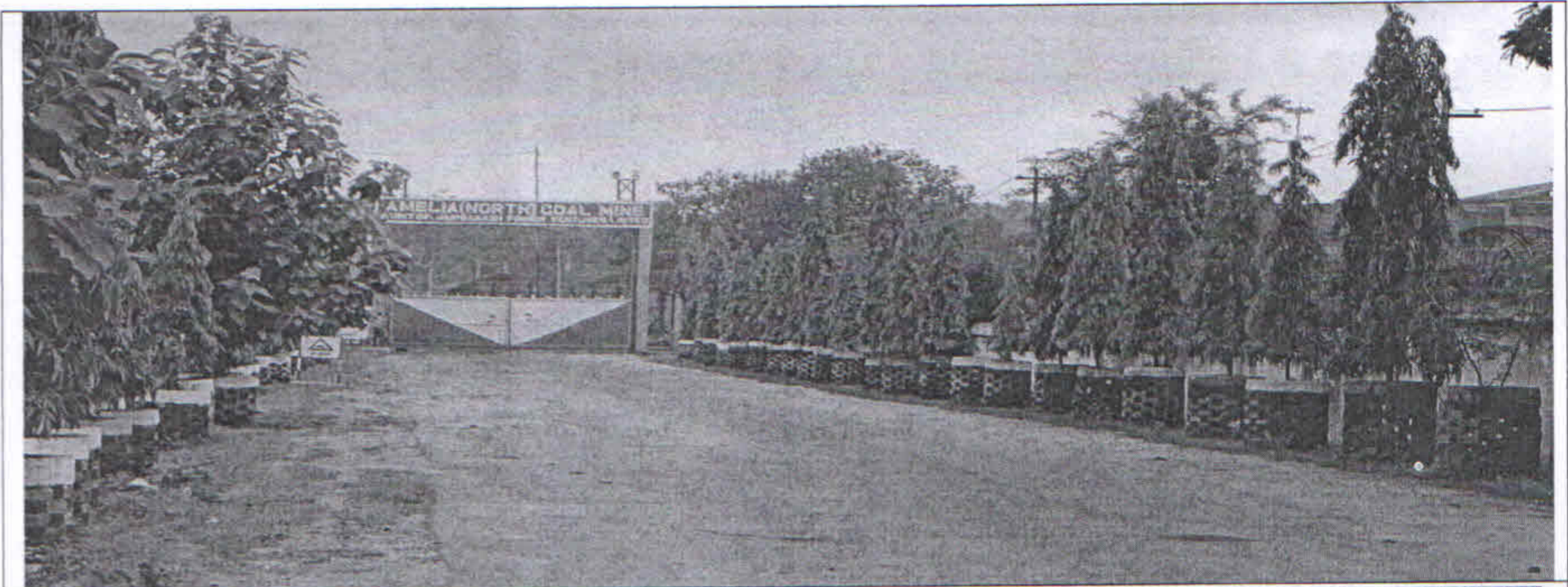

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2. Implementation Status:

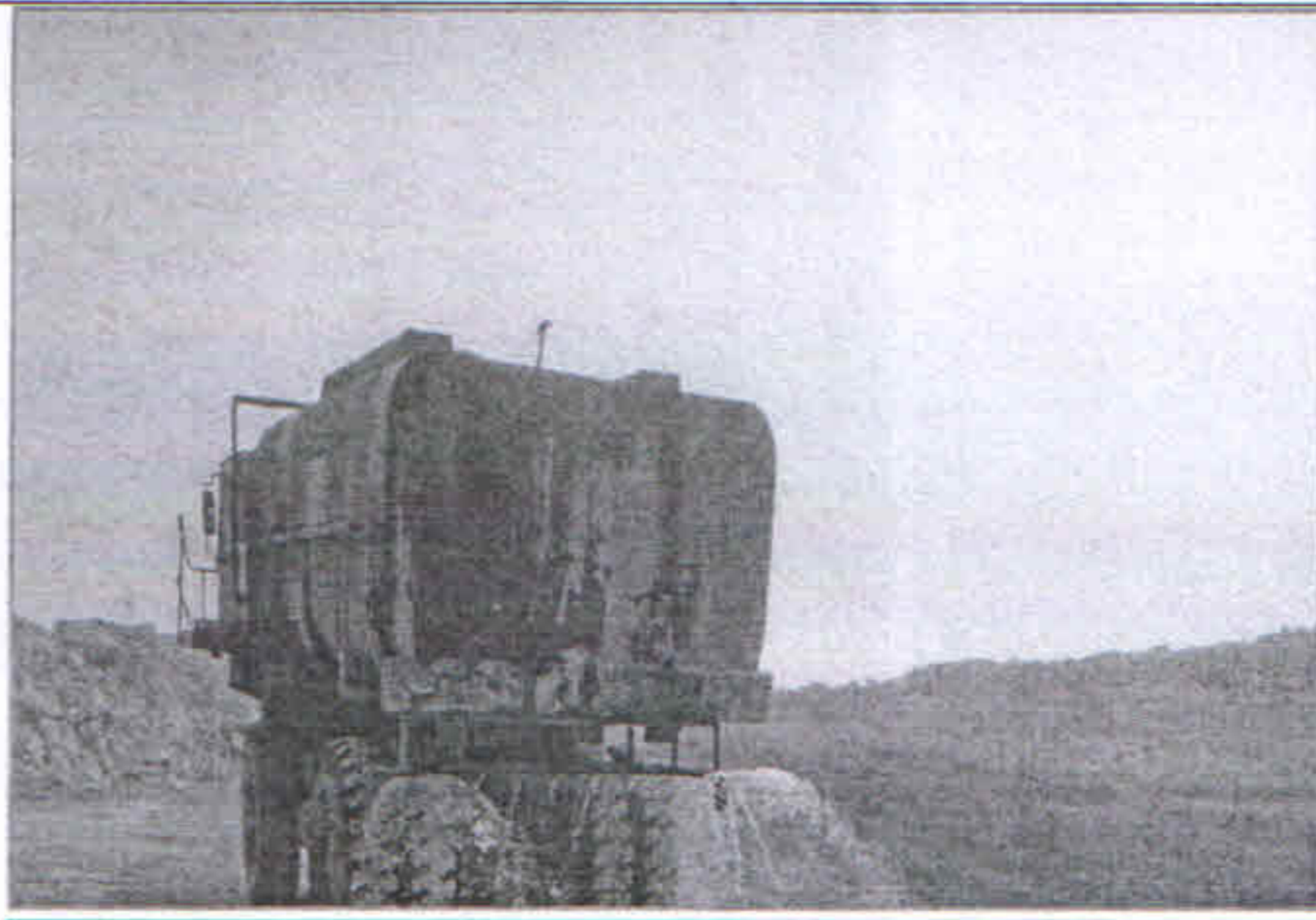
- 02 Nos. high pressure water spraying systems have been installed at feeder breaker and apron feeder (unloading points).
- 03 Nos. high pressure water spraying systems have been installed at transfer towers, stacker and reclaimer and rapid loading system (Coal Silo).
- A network of static sprinklers 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 09 nos. mobile water sprinklers.
- Mist fog cannon (Truck Mounted) in operation in the Mines, haul road and CHP area.
- Coal stock yard with stacker and reclaimer has been constructed. High pressure water spraying system has been installed at stacker 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.
- 92950 nos. plants have been planted in internal Dump & Other areas during FY 2023-24.
- Wind Breaking Screen 54 m long and 3 to 6 m height at Coal Unloading Point (Apron Feeder).
- Wind Breaking Wall 200 m long and 5 m height has been constructed at Wharf Wall.


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PLANTATION PHOTOGRAPHS



WATER SPRINKLING BY MOBILE/MIST FOG CANNON WATER SPRINKLER



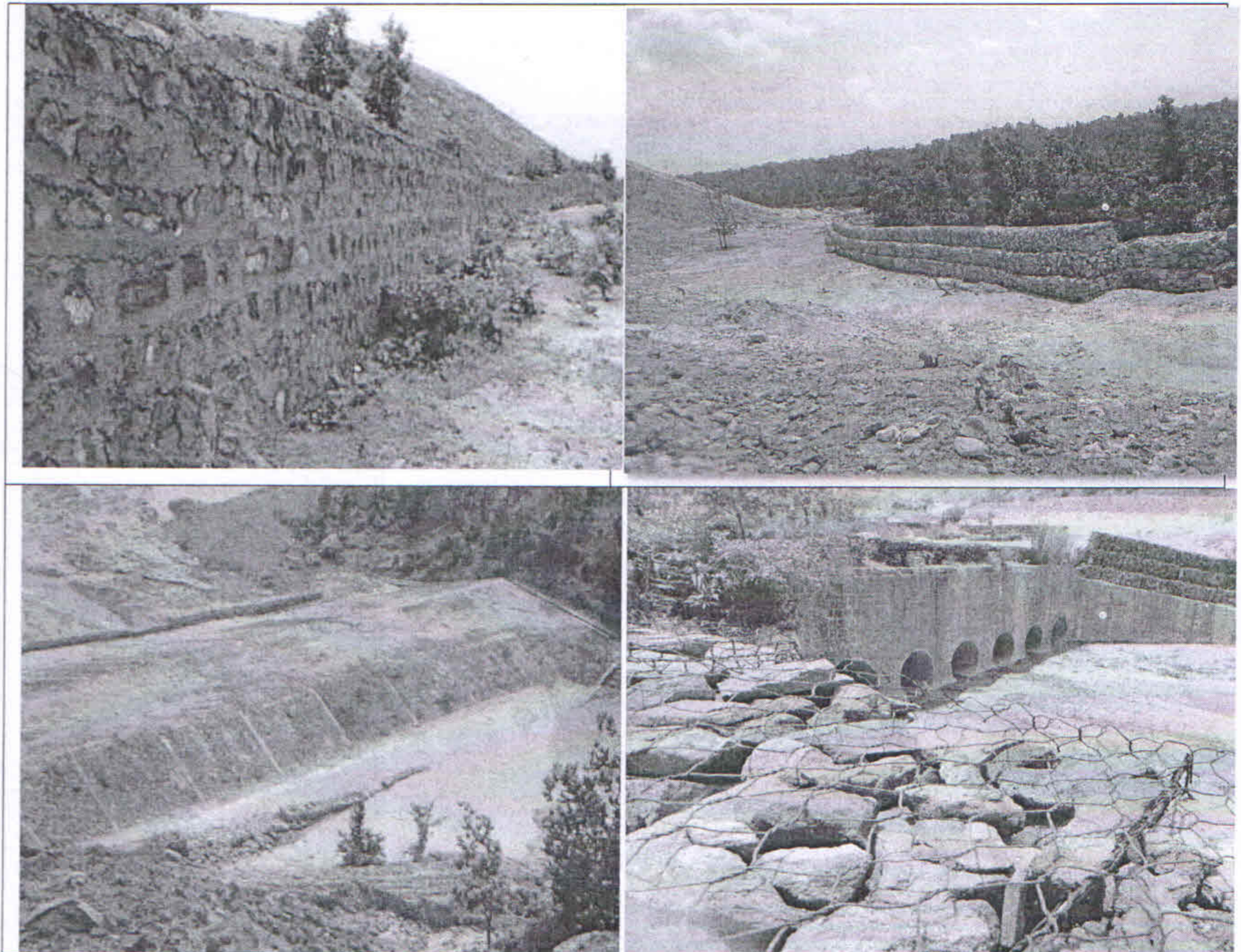

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G.2. WATER POLLUTION

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 44.20 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.

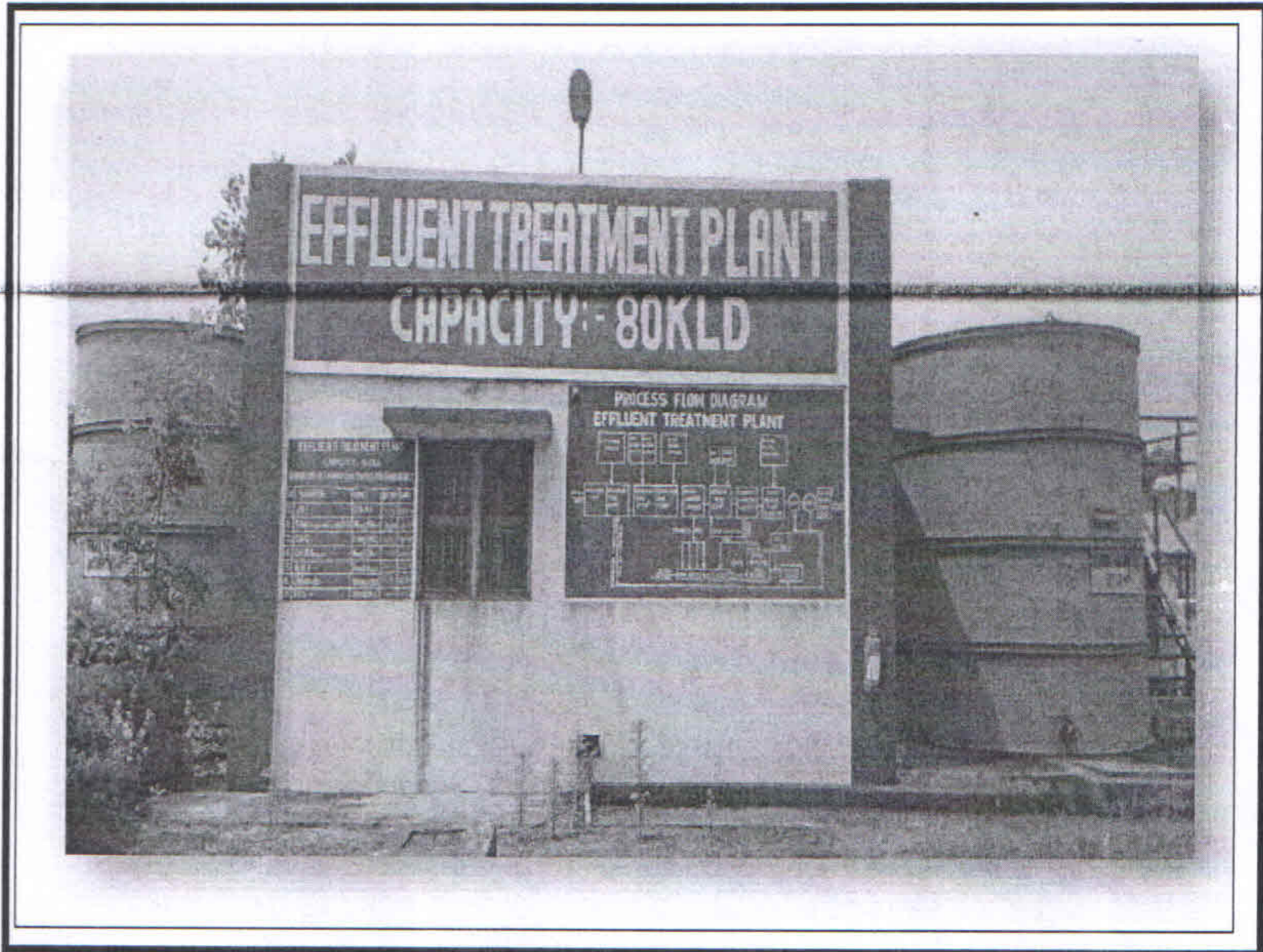
SEWAGE TREATMENT PLANT




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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.




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- Roof-top rain water harvesting 02 nos. pit have been constructed in residential area.

RAINWATER HARVESTING PITS



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.

Date: 29.08.2024

Signature

Name: Rajneesh Gaur

Designation: Executive Senior Jt. President

Address: M/s Jaiprakash Power Ventures Limited,


Amelia (North) Coal Mine,

Village – Majhauri, Post Office – Bandha,

Tehsil – Deosar, Distt. – Singrauli, (M.P.)

Pin - 486886


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