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balco
BHARAT ALUMINIUM COMPANY LIMITED
P.O. - BALCO Nagar, Korba, CG
India - 495684

CHOTIA/ENVT/B-01/2024/336

28th September 2024

To,
The Member Secretary,
Head Office, Chhattisgarh Environment Conservation Board,
Paryavas Bhawan North Block, Sector-19,
Naya - RAIPUR (C.G.).

Sub: Environment Statement of Captive Coal Mine (For Mining of Coal) Chotia II for the Financial Year 2023-24.

Respected Sir,

With reference to the captioned subject please find enclosed the Environment Statement for our Captive Coal Mine (For Mining of Coal) Chotia II for the Financial Year 2023-24 in the prescribed Form - V under Rule 14 of the Environment (Protection) Rules, 1986 and the relevant provisions of the Environment (Protection) Act, 1986.

Thanking you,

Yours truly,

Colliery Manager
Chotia II OC Coal Mine

Authorized Signatory
BALCO Mines

Encls: - a/a

Copy to: Regional Officer, CECB, Korba

FORM – V

See Rule 14

Environmental statement for the financial year ending on 31st March 2024

PART – A

i) Name and address of the mine:	**Chotia-II Coal Mines Bharat Aluminium Co. Ltd. Village – Chotia, PO - Madai Tehsil -Podi Uprodha Korba (CG)**
ii) Industry category Primary (SIC Code) or Secondary (SIC Code)	**Primary**
iii) Production capacity units:	**1 Million Tonne/Year (Coal)**
iv) Year of establishment:	**18th July 2018**
v) Date of the last Environmental statement submitted:	**28th September 2023**

PART – B

WATER AND RAW MATERIAL CONSUMPTION

i) Water consumption in m^3 per day:

Process	:	0
Spraying & Cooling	:	42
Domestic	:	54

Name of product	Process water consumption per product output	
	During the financial year 2022-23	During the financial year 2023-24
Coal	NA	NA

(ii) Raw Material Consumption:

Name of Raw Material	UoM	Consumption of Raw Materials per unit of product	
		During the financial year 2022-23	During the financial year 2023-24
Prime Cartridges	Kgs	34900.00	7511.55
Cast Booster	Kgs	6629.40	7326.8
Electric Detonator	Nos	573	728
Detonating Fuse	Meters	0	0
Bulk Explosives	MT	1445.79	1632.5

PART – C

POLLUTANT DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT

(Parameters as specified in the consent issued)

Pollution (Including Mine & Colony discharge of water	Quantity of pollutants Discharged (Kg/ L)	Concentrations of pollutants in Discharge (Kg/ day)	% of variation from prescribed standards with reasons
Air	-		Within norms
Water (Surface)	-		Within norms
Water (Ground)	-		Within norms
Noise	-		Within norms

PART – D

(Hazardous Waste)

As specified under Hazardous Waste Management Handling rule

Hazardous Waste	Total quantity (in MT/Litres)	
	During the current financial year 2022-23	During the current financial year 2023-24
a) From process 1. Used/ Spent Oil 2. Empty Barrels/ Containers b) From pollution Control facility	9.9 KL 1.32 MT -	13.9 KL 0 MT -

PART – E

SOLID WASTES

Removal of Overburden	Total quantity	
	During the financial year 2022-23	During the financial year 2023-24
a) From process 1. Overburden	39,67,315 m^3	61,51,326 m^3
b) From pollution control facility	NIL	NIL
c) 1. Quantity recycled or reused within the unit. 2. Sold 3. Disposed	39,67,315 m^3 (O.B. backfilling) NIL NIL	61,51,326 m^3 (O.B. backfilling) NIL NIL

PART – F

PLEASE SPECIFY THE CHARACTERISATION (IN TERMS OF COMPOSITION AND QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICES ADOPTED FOR BOTH THESE CATEGORIES OF WASTES.

Hazardous Waste:

S.No	Hazardous waste	Composition	Disposal Practice
1	Used/ Spent Oil	Used/ Spent Oil	Sold to authorized reprocessors
2	Empty barrels /Containers/ liners contaminated with hazardous chemicals/ waste	Empty barrels /Containers contaminated with chemicals, oil & waste oil etc.,	Sale to authorized recyclers

Solid Waste

S.No	Solid Waste	Composition	Disposal Practice
1	Overburden	Coal overburden (Coal, Soil etc.,)	Used in mine backfilling

PART – G

IMPACT OF THE POLLUTION ABATEMENT MEASURE TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION

Various Pollution abatement measures have been taken at Chotia Coal Mines for conservation of natural resources. The measures are as under:

i) Concurrent Backfilling being done to minimize the land degradation.
ii) Plantation on reclaimed area with local species in consultation with Forest department.
iii) Suitable measures have been and will continue to be taken for conservation of wildlife.
iv) Water conservation measures have been taken by construction of series of check dams, garland drains, etc. Domestic wastewater is being treated in Sewage Treatment Plant. Industrial wastewater is being treated using Effluent Treatment Plant and reused.
v) Rainwater Harvesting is in place for conservation of rainwater.

PART – H

ADDITIONAL MEASURES / INVESTMENT PROPOSALS FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT OF POLLUTION, PREVENTION OF POLLUTION.

In order to abate the negative impacts generated due to mining activity and also for the conservation of natural resources, the environmental management initiatives shall be taken to which are summarized as below;

- Wet drilling practice is adopted for minimization of dust generation.
- Regular maintenance and water sprinkling of Mine Haul roads.
- Controlled Blasting with proper delay being carried out to minimize noise pollution.
- Mined out areas are reclaimed by backfilling of overburden and covered by topsoil on top. Afforestation is being carried out on top of reclaimed areas.
- The worked-out slopes stabilized by planting appropriate shrub/grass species on the slopes.

PART – I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF THE ENVIRONMENT

- Retaining walls provided at the toe of dumps and overburden benches to prevent wash off from dumps and sliding of material from benches. This will help in preventing silting of water drains/channels.
- HEMMs equipped with closed cabins to protect operators from high noise levels and ambient dust.