

CHOTIA /ENVT/B-01/17/362

27 September 2017

To,

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

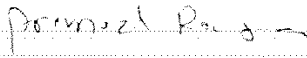
Sub: Environment Statement of Captive Coal Mining (For Mining of Coal) Chotia
for the financial year 2016-17

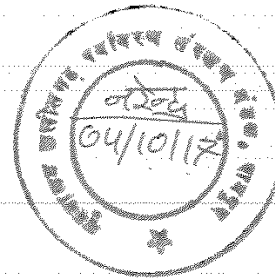
Dear Sir,

With reference to the captioned subject we are enclosing the Environment
Statement for Captive Coal Mining (For Mining of Coal) Chotia for the financial
year 2016-17 in the prescribed Form - V under Section 6 and 25 of the
Environment (Protection) Act -1986.

Thanking You,

Yours faithfully,
For Bharat Aluminium Company Ltd.

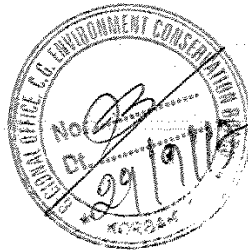

Pramod Ranjan
Head-HSE (Mines)



Encl-a/a

Copy to:

Regional Officer, CECB, Korba



FORM - V

See Rule 14

Environmental statement for the financial year ending on 31st March 2017

PART - A

- i) Name and address of the mine: Chotia 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: 1st April 2015 (Chotia Mine has been vested to BALCO from 1st April 2015)
- v) Date of the last Environmental statement submitted: 26 September 2016 vide letter no: CHOTIA /ENVT/B-01/16/338

PART - B

WATER AND RAW MATERIAL CONSUMPTION

i) Water consumption in Kiloliters per day (KLD)

Spraying: 32.07 KLD
Domestic: 179.55 KLD

Name of product	Process water consumption per product output	
	During the financial year 2015-16	During the financial year 2016-17
Coal	NA	NA

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(ii) Raw Material Consumption:

Name of Raw Material	UoM	Consumption of Raw Materials per unit of product	
		During the financial year 2015-16	During the financial year 2016-17
Prime Cartridges	Kgs	35675	31050
Cast Booster	Kgs	1723.3	1016
Electric Detonator	Nos	227	203
Detonating Fuse	Meters	286100	190525
Cord Relays	Nos	11146	4364
Bulk Explosives	MT	839.52	483.2

PART – C

POLLUTANT DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT
(Parameters as specified in the consent issued)

Pollutants (Including Mine & Colony discharge of water)	Quantity of pollutants Discharged	Concentrations of pollutants in Discharge	% of variation from prescribed standards with reasons
Air		Annexure –A	Within norms
Water (Surface)		Annexure –B	Within norms
Water (Ground)		Annexure –B	Within norms
Noise		Annexure –C	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 2015-16	During the current financial year 2016-17
a) From process	NIL	9680 Litres
b) From pollution Control facility		

Paul Ravi

PART – E
SOLID WASTES

Removal of Overburden	Total quantity	
	During the financial year 2015-16	During the financial year 2016-17
i) Total O.B.	18,42,235 (Cum)	9,74,705 (CUM)
ii) Total O.B. for back filling	18,42,235 (Cum)	9,74,705 (CUM)
iii) Total O.B. disposed	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.

Coal from Chotia Coal Mine was/will be used for its captive use at 600 MW Power Plant of BALCO. Conventional drilling & blasting method was/will be adopted for excavation of overburden which comprises mostly of shale and sandstone followed by extraction of coal. The void thus created due to mining activity was/will be backfilled, leveled and then covered with a layer of top soil followed by large scale plantation/ vegetation for biological reclamation.

Hazardous waste generated was/will be disposed off in the manner prescribed in the authorization obtained under Hazardous Waste (Management, Handling and Transboundary Movement Rules)

PART – G

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

Various Pollution abatement measures were taken at Chotia Coal Mines for conservation of natural resources. These measures have meagre impact on the cost of production. They are

- i) Concurrent Backfilling was/will be done to minimize the land degradation.
- ii) Plantation on reclaimed area with local species in consultation with Forest department
- iii) Suitable measures have been/will be taken for conservation of wildlife

Dr. An. R. R.

- iv) Water conservation measures have been/will be taken by construction of serious of check dams, garland drains, etc., Domestic waste water is/will be treated with Sewage Treatment Plant and Septic Tank. Industrial waste water is/will be treated with oil & grease trap and settling pond.
- v) Rainwater Harvesting is in place for conservation of rain water.

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 was/will be adopted for minimization of dust generation.
- Regular maintenance and water sprinkling of Mine Haul roads
- Controlled Blasting with proper delay will be carried out to minimize noise pollution.
- HEMMs will be equipped with closed cabins to protect operators from high noise level.
- Mined out areas are reclaimed by backfilling of overburden and covered by top soil on top. Afforestation being carried out on top of reclaimed areas.
- Retaining walls will be 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
- The worked out slopes will be stabilized by planting appropriate shrub/grass species on the slopes

PART – I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF THE ENVIRONMENT

A total of 30000 saplings were planted during FY 2016-17.

F. A. R.