

P&T DEPARTMENT, CORPORATE OFFICE,
NALCO BHAWAN, P-1, NAYAPALLI,
BHUBANESWAR-751013
PHONE: 0674-2300633, 06764-221323,

EMAIL: smruti.mohanty@nalcoindia.co.in, gm_uecb@nalcoindia.co.in

Ref. No. NBC/ED (Proj. & Tech)/1373

Date: 25.09.2023

To
The Member Secretary
State Pollution Control Board, Odisha
Paribesh Bhawan, A/118, Nilakantha Nagar,
Unit-VIII, Bhubaneswar- 751012, Odisha.
Email: paribesh1@ospcbboard.org

Sub: Submission of Environment Statement for the financial year 2022-23 for Utkal D Coal Mine of National Aluminium Company Limited at Tehsil-Chhendipada, Angul District, Odisha.

Ref:

- (i) Utkal-D Consent to Operate dated 28.03.2023: Special Condition - E 39
- (ii) Environment (Protection) Rule 1986 dated 19.11.1986 – Section 14

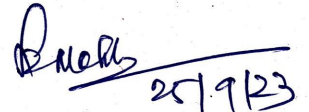
Sir,

Inviting reference to the subject cited above, we are herewith submitting the Environment Statement in Form V under section 14 of Environment (Protection) Rule 1986 for Utkal-D Coal Mine of National Aluminium Company Limited (NALCO) situated at Tehsil-Chhendipada of Angul District, Odisha.

We trust that the furnished information are in line with your requirement.

Thanking You,

Yours Faithfully,
For and on behalf of NALCO



(Smruti Ranjan Mohanty)
GGM (T&C) and
Authorized Signatory

Enclosure: Environment Statement in Form V

Copy to: Regional Officer, State Pollution Control Board, S-3/3, Industrial Estate, Hakimpada, Angul, Odisha (email: rospcb.angul@ospcbboard.org)

नेशनल एल्युमिनियम कम्पनी लिमिटेड
(भारत सरकार का एक उद्यम)

निगम कार्यालय

नालको भवन, पि-1, नयापल्ली, भुवनेश्वर - 751 013, भारत

फोन Telephone: (EPABX) (0674) 2301988, 2301999, 2300013, 2300976, 2301550, 2303233,

फैक्स Fax-(0674) 2301290, 2300580, 2300740, 2300640 & 2300246, वेबसाइट Website: www.nalcoindia.com

CIN: L27203OR1981GOI000920

National Aluminium Company Limited

(A Government of India Enterprise)

CORPORATE OFFICE

Nalco Bhawan, P/1, Nayapalli, Bhubaneswar - 751 013, India

FORM – V

(See Rule 14)

Environmental Statement for the financial year ending on 31st March 2023

PART - A

- i. Name and address of the owner/
Occupier of the Industry,
operation or process : Shri. Pankaj Sharma
Utkal D Coal Mine,
National Aluminium Company Limited (NALCO),
At. Rajjharan, Nandichhor, Kosal, Similisahi,
Tehsil: Chhendipada, District: Angul,
Odisha 759122
- ii. Industry Category Primary (STC
Code) Secondary (STC Code) : Red
- iii. Production Capacity : Coal: 2 Million Tons /Annum
- iv. Year of Establishment : 2022
- v. Date of last environment
statement submitted : Not applicable.
(Coal production started in FY 2023-24)

PART - B

Water and Raw Material Consumption

1. Water Consumption (m ³ /day)		
Process	:	Nil
Cooling	:	Nil
Domestic	:	75 m ³ /day
Dust suppression and Fire fighting	:	69.2 m ³ /day

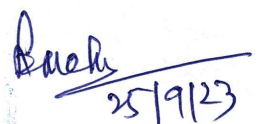
Name of Products	Water Consumption per unit of products output	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
Coal	Nil #	Nil *

Coal mine was not in operation

* Coal production was not started



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2. Raw Material Consumption			
Name of raw materials	Name of products	Consumption of raw material per unit of coal production	
		During the previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
Diesel	Coal	Nil #	Nil*
Site mix slurry explosive		Nil #	Nil*
Cartridge (120mm)		Nil #	Nil*
Non electric detonator		Nil #	Nil*

Coal mine was not in operation

* Coal production was not started

PART - C

Pollution discharges to environment/ unit of output.

(Parameter as specified in the consent issued)

Pollution	Quality of Pollutants Discharged (Mass/day)	Concentration of Pollutants discharges (mass/volume)	Percentage of variation from prescribed standards
(a) Water	NA*	NA*	NA*
(b) Air	NA*	NA*	NA*

* Coal production was not started

PART - D

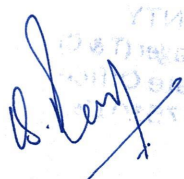
Hazardous Waste

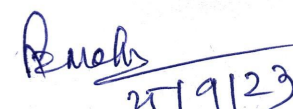
(As specified under Hazardous Wastes (Management and Handling) Rules)

(a) From Process		
Hazardous Wastes	Total Quantity (kg)	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
Used oil or spent oil	Nil #	Nil*
Waste or residue containing oil	Nil #	Nil*
Empty barrels/ containers/ liners contaminated with hazardous chemicals / waste	Nil #	Nil*
Sludge and filters contaminated with oil	Nil #	Nil*

Coal mine was not in operation

* Coal production was not started


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(b) From Pollution Control Facilities:		
Hazardous Wastes	Total Quantity (kg)	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
Used oil or spent oil	Nil #	Nil*
Waste or residue containing oil	Nil #	Nil*
Empty barrels/ containers/ liners contaminated with hazardous chemicals / waste	Nil #	Nil*
Sludge and filters contaminated with oil	Nil #	Nil*

Coal mine was not in operation

* Coal production was not started

PART - E
Solid Wastes

a. From Process		
Solid Waste	Total Quantity (MT)	
	During the previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
Overburden (OB)	Nil #	1,87,845 m ³ * (OB removal was carried out)

Coal mine was not in operation

* Coal production was not started

b. From Pollution Control Facilities		
Solid Waste	Total Quantity (MT)	
	During the previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
Settling Pond Sludge	Nil #	Nil*

Coal mine was not in operation

* Coal production was not started

c (1) Quantity recycled or reused within the unit		
Solid Waste	Total Quantity (MT)	
	During the previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
Overburden (OB)	Nil #	Nil *
Settling Pond Sludge	Nil #	Nil *

Coal mine was not in operation

* Coal production was not started




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c (2) Sold		
Solid Waste	Total Quantity (MT)	
	During the previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
Overburden	Nil #	Nil
Settling Pond Sludge	Nil #	Nil

Coal mine was not in operation

c (3) Disposed		
Solid Waste	Total Quantity (MT)	
	During the previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
Overburden	Nil #	Nil (Generated overburden was stored for mine back filing in future)
Settling Pond Sludge	Nil #	Nil

Coal mine was not in operation

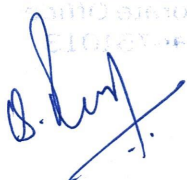
PART - F

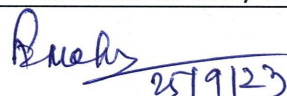
Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid waste indicate disposal practice adopted for both these categories of wastes.

Characteristic of Hazardous Waste						
S N	Parameter	Unit	Used oil or spent oil	Waste or residue containing oil	Empty barrels/ containers/ liners contaminated with hazardous chemicals / waste	Sludge and filters contaminated with oil
Coal production was not started in FY 2022-23.						

Characteristic of Solid Waste				
S N	Parameter	Unit	Over Burden	Settling Pond Sludge
Coal production was not started in FY 2022-23.				

Disposal Practice of Hazardous Waste		
S No.	Name of the waste	Disposal Method
1	Used oil or spent oil	Will be disposed through Authorized recycler / Re-processor
2	Waste or residue containing oil	Will be disposed through Authorized Common landfill / TSDF
3	Empty barrels/ containers/ liners contaminated with hazardous chemicals / waste	Captive reuse / Sold to authorized party
4	Sludge and filters contaminated with oil	Will be disposed through Authorized Common landfill / TSDF




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Disposal Practice of Solid Waste		
S No.	Name of the waste	Disposal Method
1	Over burden soil	Overburden will be used for backfilling of mines in future. Currently stored in specified location as per approved mining plan.
2	Settling pond sludge	Nil

PART - G

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

In order to carryout environment friendly mining, a details Environment Management Plan (EMP) was prepared by CMPDIL. The following measures are /will be implemented in Utkal-D Coal Mine for Environment Management.

(A) Water Conservation Program

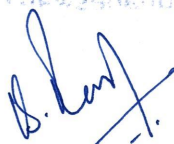
- Reuse of mine pit water for dust suppression, fugitive emission control, plantation and vehicle washing.
- Proper drainage facility and runoff water collection system around OB dump area.
- Provision of drainage facility around the top soil storage area for collection of storm water.
- Drainage system for collection and diversion of collected storm water to settling pond.
- Alum dosing facility for treatment of collected water in settling pond before recycled / reused.
- Periodic maintenance and cleaning of garland drain and bunds
- Periodic testing of mine pit water quality to determine the quality.

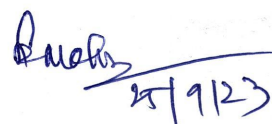
(B) Soil Conservation Initiatives

- Storage of OB dump separately for reusing it for backfilling in the mines in future
- Storage of top soil separately for reusing it in future over mine backfilled area for plantation

(C) Air Pollution Management

- Use of wet drilling system for arresting the generation of dust
- Controlled blasting with required amount of explosive
- Avoiding overloading of transporting vehicle
- Tarpaulin covering of all outgoing loaded trucks / dumper.
- Proper maintenance of heavy earth moving machinery (HEMM) for reduction of air pollutant
- Water spraying on haulage road and other internal roads by 7 nos. of water tankers (18 KL – 2 nos. & 10 KL – 5 nos.)




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- Use of rain guns for control of fugitive emissions from coal stock yard.
- Use of rain guns and fire extinguisher during fire in coal stock

(D) Noise Management

- Regular maintenance of all heavy earth moving machines (HEMM) and other mobile equipment
- Provision of noise proof cabins for operators of HEMM and mobile equipment.
- Use of controlled blasting and only during day time
- Blasting is done with Nonel to control the ground vibration and Air overpressure (AOP).

(E) Monitoring by External Agency

- Periodic monitoring of Air quality, Water quality, Noise monitoring in mine area and surrounding villages

PART- H

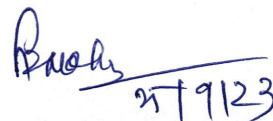
Additional measures/ investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- Construction of wind barrier around coal stock yard for further controlling of fugitive coal dust is under progress in FY 2023-24.
- Construction of Sewage Treatment Plant (STP) and Effluent Treatment Plant (ETP) is under progress in FY 2023-24.
- Rain Water harvesting system will be implemented on official buildings and residential buildings in FY 2023-24.
- Plantation work is under progress in safety zone of mine area in FY 2023-24.
- Further streamlining the waste management of mine

PART - I

Any other particulates in respect of environmental protection and abatement of pollution.

- Celebration of World Environment Day on 05th June 2023 to build up Environmental awareness among employees.
- Tree plantation by employees within safety zone of mine

Authorized Signatory

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