

नालको **NALCO**
NATIONAL ALUMINIUM COMPANY LIMITED
(A Government of India Enterprise)

COAL MINES DIVISION
S&P COMPLEX, Angul

EMAIL:: sudhansu.patra@nalcoindia.co.in, gm_uecb@nalcoindia.co.in

Ref No: NALCO/ Coal Mines Division / 738/2024

Date: 26.09.2024

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 2023-24 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


26/09/2024
S S Patra

GGM (Coal Mines)

सुधांशु सेकर पात्रा/SUDHANSU SEKHAR PATRA

समूह प्रशासक (कोयला खन) /GGM (Coal Mines)

Nalco, Angul

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)

FORM – V
(See Rule 14)

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

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. Rajharan, Nandichhor, Kosal, Similisahi, Tehsil:
Chhendipada, District: Angul,
Odisha 759122
- ii. Industry Category Primary (STC Code) : Red
Secondary (STC Code)
- iii. Production Capacity : Coal: 2 Million Tons /Annum
- iv. Year of Establishment : 2022
- v. Date of last environment statement
submitted : 25.09.2023

PART - B

Water and Raw Material Consumption

1. Water Consumption (m ³ /day)		
Process	:	Nil
Cooling	:	Nil
Domestic	:	74.39 m ³ /day
Dust suppression and Fire fighting	:	674.39 m ³ /day

Name of Products	Water Consumption per unit of products output	
	During the previous financial year (2022-23)	During the current financial year (2023-24)
Coal	Nil *	0.137 K L/Ton of coal produced

* Coal production was not started

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 (2022-23)	During the Current Financial Year (2023-24)
Diesel	Coal	Nil*	2.394 L/ Ton of Coal
Explosive		Nil*	0.289 Kg/Ton of Coal

* 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	Within the prescribed limit	Within the prescribed limit	Within the prescribed limit
(b) Air	Within the prescribed limit	Annexure 1	Within the prescribed limit

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 (2022-23)	During the current financial year (2023-24)
Used oil or spent oil	Nil*	25.800 T
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 production was not started

(b) From Pollution Control Facilities:		
Hazardous Wastes	Total Quantity (kg)	
	During the previous financial year (2022-23)	During the current financial year (2023-24)
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 production was not started

PART - E

Solid Wastes

a. From Process		
Solid Waste	Total Quantity (MT)	
	During the previous Financial Year (2022-23)	During the Current Financial Year (2023-24)
Overburden (OB)	1,87,845 m ³ * (OB removal was carried out)	45,49,326 m ³

* Coal production was not started

b. From Pollution Control Facilities		
Solid Waste	Total Quantity (MT)	
	During the previous Financial Year (2022-23)	During the Current Financial Year (2023-24)
Settling Pond Sludge	Nil*	Nil

* Coal production was not started

c (1) Quantity recycled or reused within the unit		
Solid Waste	Total Quantity (MT)	
	During the previous Financial Year (2022-23)	During the Current Financial Year (2023-24)
Overburden (OB)	Nil *	Nil
Settling Pond Sludge	Nil *	Nil

* Coal production was not started

c (2) Sold		
Solid Waste	Total Quantity (MT)	
	During the previous Financial Year (2022-23)	During the Current Financial Year (2023-24)
Overburden	Nil	Nil
Settling Pond Sludge	Nil	Nil

c (3) Disposed		
Solid Waste	Total Quantity (MT)	
	During the previous Financial Year (2022-23)	During the Current Financial Year (2023-24)
Overburden	Nil (Generated overburden was stored for mine back filing in future)	Nil (Generated overburden was stored for mine back filing in future)
Settling Pond Sludge	Nil	Nil

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
Within the prescribed limit						

Characteristic of Solid Waste				
S N	Parameter	Unit	Over Burden	Settling Pond Sludge
Within the prescribed limit				

Disposal Practice of Hazardous Waste		
S No.	Name of the waste	Disposal Method
1	Used oil or spent oil	25.550 MT of used oil was 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

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.
- Use of Sewage Treatment Plan (STP) for sewage water treatment

(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.)
- 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
- Use of wind barrier around coal stock yard

(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 in other two sides of coal stock yard for further controlling of fugitive coal dust.
- Construction of Effluent Treatment Plant (STP) and Effluent Treatment Plant (ETP) is under progress.
- Rain Water harvesting system will be implemented on official buildings and residential buildings which is currently under construction.
- Plantation work is under progress in safety zone and empty areas of mine.
- Further streamlining the waste management of mine
- Construction of Retaining wall beside OB dump area.

PART - I

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

- Celebration of World Environment Day on 05th June 2024 to build up Environmental awareness among employees.
- Tree plantation by employees within safety zone of mine
- Celebration of Swachata Pakhwada during September 2023 in mine area.

Annexure 1

