

नालको **NALCO**
NATIONAL ALUMINIUM COMPANY LIMITED
(A Government of India Enterprise)
COAL MINES DIVISION
S&P COMPLEX, Angul
EMAIL:: gm_uecb@nalcoindia.co.in

Ref No: NALCO/ Coal Mines Division / 100572025

Date: 26.09.2025

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 2024-25 for Utkal D and Utkal E Coal Mine of National Aluminium Company Limited at Tehsil-Chhendipada, Angul District, Odisha.

Ref: Consent to Operate letter no. 14291/IND-I-CON-7003 dated 29.07.2025 (Special Condition - E 50)

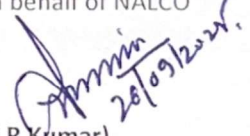
Madam / Sir,

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 and Utkal E 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


(K R Kumar)
AGM (Environment)

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 2025

PART - A

- i. Name and address of the owner/
Occupier of the Industry, operation or
process : Shri. Pankaj Sharma
Utkal D & Utkal E Coal Mine,
National Aluminium Company Limited (NALCO),
At/vill. Rajjharan, Nandichhor, Kosala, Similisahi,
Korada, Kundajhari, Gopinathpur
Tehsil: Chhendipada, District: Angul,
Odisha 759130
- ii. Industry Category Primary (STC Code) : Red
Secondary (STC Code)
- iii. Production Capacity : Coal production: 4 Million TPA
- iv. Year of Establishment : 2022
- v. Date of last environment statement
submitted : 26.09.2024

PART - B

Water and Raw Material Consumption

1. Water Consumption (m ³ /day)		
Process	:	Nil
Cooling	:	Nil
Domestic	:	179.149 m ³ /day
Dust suppression and Fire fighting	:	646.424 m ³ /day

Name of Products	Water Consumption per unit of products output	
	During the previous financial year (2023-24)	During the current financial year (2024-25)
Coal	0.137 KL/Ton of coal produced	0.107 KL/Ton of coal produced

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 (2023-24)	During the Current Financial Year (2024-25)
Diesel	Coal	2.394 L/ Ton of Coal	2.817 L/ Ton of Coal
Explosive		0.289 Kg/Ton of Coal	0.434 Kg/Ton of Coal

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 (2023-24)	During the current financial year (2024-25)
Used oil or spent oil	25.800 T	22.167 T
Waste or residue containing oil	Nil	Nil
Empty barrels/ containers/ liners contaminated with hazardous chemicals / waste	Nil	1.425 T
Sludge and filters contaminated with oil	Nil	Nil

(b) From Pollution Control Facilities:		
Hazardous Wastes	Total Quantity (kg)	
	During the previous financial year (2023-24)	During the current financial year (2024-25)
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

PART - E
Solid Wastes

a. From Process		
Solid Waste	Total Quantity (MT)	
	During the previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
Overburden (OB)	45,49,326 m ³	67,82,503 m ³

b. From Pollution Control Facilities		
Solid Waste	Total Quantity (MT)	
	During the previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
Settling Pond Sludge	Nil	Nil
STP sludge	Nil	1.0 T

c (1) Quantity recycled or reused within the unit		
Solid Waste	Total Quantity (MT)	
	During the previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
Overburden (OB)	Nil	Nil
Settling Pond Sludge	Nil	Nil
STP Sludge	Nil	1.0 T

c (2) Sold		
Solid Waste	Total Quantity (MT)	
	During the previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
Overburden	Nil	Nil
Settling Pond Sludge	Nil	Nil
STP Sludge	Nil	Nil

c (3) Disposed		
Solid Waste	Total Quantity (MT)	
	During the previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
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	20.412 MT of used oil was disposed through Authorized recycler / Re-processor and 0.675 T utilized in-house for lubrication
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 / Handed over to authorized party along with used oil
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 EIA consultant. The following measures are /will be implemented in Utkal-D Coal Mine for Environment Management. Photographs are enclosed as Annexure 2.

(A) Water Conservation Program

- Reuse of mine pit water for dust suppression, fugitive emission control, plantation, fire-fighting 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 8 nos. of water tankers (18 KL – 2 nos. & 10 KL – 6 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.

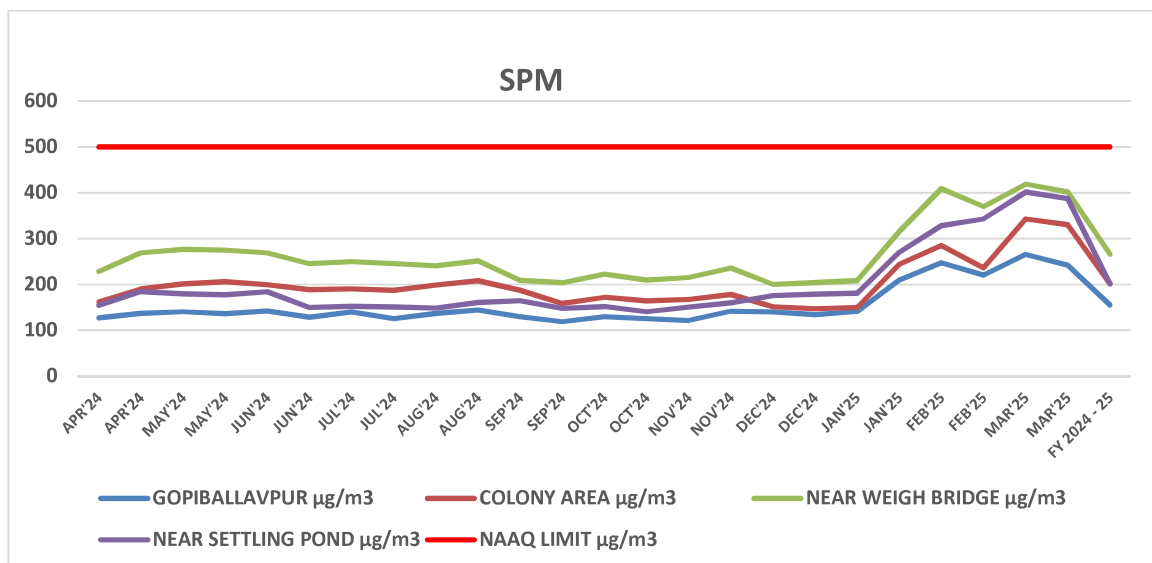
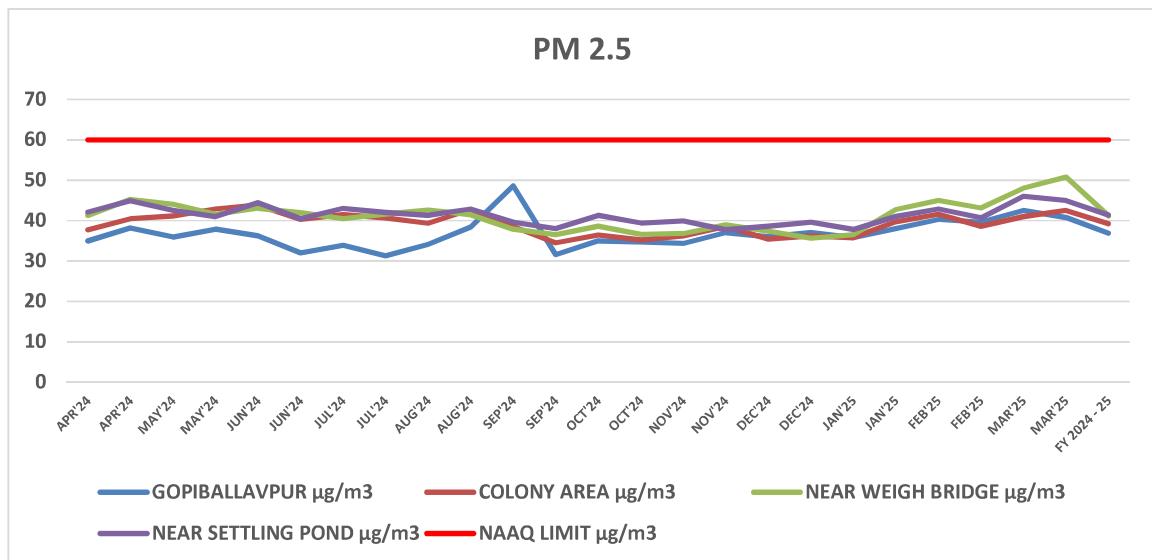
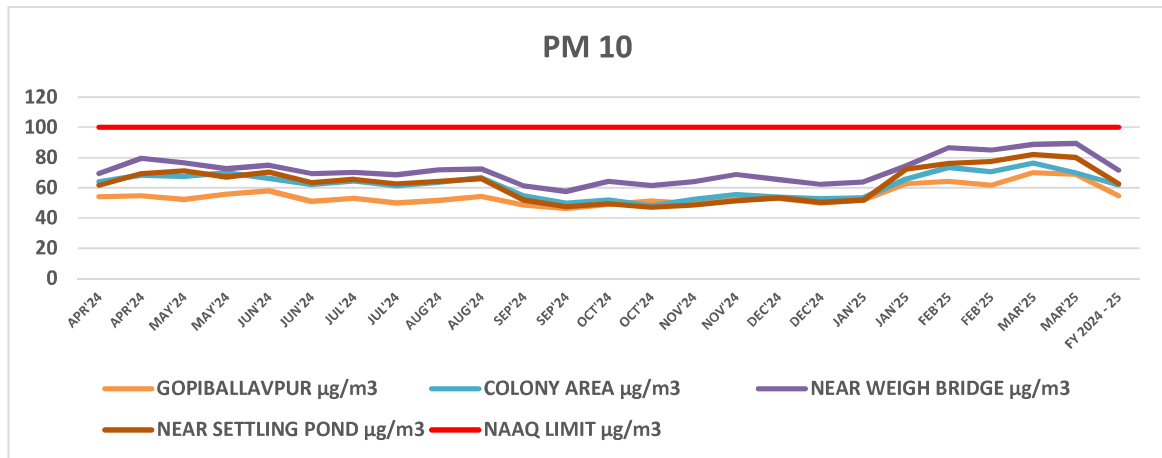
- Rain Water harvesting system will be implemented on official buildings and residential buildings which is currently under construction.
- Plantation work is under progress in safety zone and empty areas of mine.
- Further streamlining the waste management of mine
- Construction of Retaining wall beside 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 to build up Environmental awareness among employees.
- Tree plantation by employees within open space and safety zone of mine
- Celebration of Swachata Pakhwada during September month in mine area.

Annexure 1



PHOTOGRAPH OF UTKAL D & UTKAL E COAL MINES

Garland Drain



OB Dump



High Pressure Rain Gun



Wind Screen around Coal Stock Yard (10 M height & 500 M lang)



Water Sprinkling



Mist Cannon



Surface Miner with Water Sprinkling Facility



Wet Drilling Machine



Full Body Truck Washing & Wheel Washing Station



Nallah Diversion



Nallah Embankment



Transportation



Plantation in Safety Zone



Plantation in Safety Zone



Plantation

