

## MCDR INSPECTION REPORT

**General**

S N	Particulars	Details	
1	File no.	MCDR-MiFLOBXT/1/2025-BBS-IBM_RO_BBS	
2	Name of the Inspecting Officer	Sri Vikram Prakash Deshpande, Asst. Controller of Mines	
3	Name of the Mine	Pottangi Bauxite Mine	
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	697.979 Ha (Forest)	
5	Mine code	07ORI363001	
6	Date of Inspection	22.05.2025	
7	Name of official accompanying inspection	Sri V Vijay Vivekananda, Mines Manager	
8	IBM Registration Number under rule 45 of MCDR, 1988	IBM/116/2011 (NALCO)	
9	Name of the lessee, Address, phone, email and fax number	National Aluminium Company Limited (NALCO)	
10	Village	Pottangi Bauxite Mines, Expansion Project Department, Mines and Refinery Complex, Damanjodi	
11	Taluka/Mandal	Pottangi	
12	District	Koraput	
13	Pincode	763008	
14	State	Odisha.	
15	Post office	Pottangi	
16	Nearest police station	Pottangi	
17	Nearest Railway station	Damanjodi	
18	Date of Grant of Mining Lease	02.02.2023	
19	Date of Execution	13.06.2024	
20	Date of opening of Mine	--	
21	Date of first Renewal, if applicable and its period & expiry	Not Applicable	
22	Date of second Renewal, if applicable and its period & expiry	Not Applicable	
23	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable	
24	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri Jagdish Arora, Director (Project & Technical) NALCO Bhavan, P/1, Nayapalli, Bhubaneswar, Odisha 751013. E-mail: <a href="mailto:dirpnt@nalcoindia.co.in">dirpnt@nalcoindia.co.in</a> Date of Appointment: 11.09.2024	
25	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri Chittaranjan Pati, Expansion Project Department, Mines and Refinery Complex, NALCO, Damanjodi- 763008. Koraput, Odisha. Mob: 9437590053 E mail: <a href="mailto:chittaranjan.pati@nalcoindia.co.in">chittaranjan.pati@nalcoindia.co.in</a> Date of Appointment: 12.09.2024	
26	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri V Vijay Vivekananda Expansion Project Department, Mines and Refinery Complex, NALCO, Damanjodi- 763008. Koraput, Odisha. Mob: 9701348906 E mail: <a href="mailto:v.vivekananda@nalcoindia.co.in">v.vivekananda@nalcoindia.co.in</a> Date of Appointment: 12.09.2024	
27	Name of the Mining Engineer & Geologist, Qualification and total experience	Mining engineer Qualification Date of appointment Address phone/email	Sri V Vijay Vivekananda B.Tech (Mining) Date of Appointment: 12.09.2024 Expansion Project Department, Mines and Refinery Complex, NALCO, Damanjodi- 763008. Koraput, Odisha. Mob: 9701348906 E mail: <a href="mailto:v.vivekananda@nalcoindia.co.in">v.vivekananda@nalcoindia.co.in</a>
		Geologist Qualification Date of appointment Address phone/email	Will be appointed after the commencement of Mining operations

28	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes, Mining Engineer is appointed. Geologist will be appointed before the commencement of Mining Operations.
29	Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	27.07.2018
30	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	--
31	Mineral(s) granted in lease and proved for mining	Bauxite Ore
32	Method of Mining(Opencast, Underground)	Opencast
33	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
34	Captive/Non Captive	Captive
35	Environment Clearance grant date & limit of EC	30.06.2023, 35,00,000Tons
36	CTO	12.12.2024

### Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	09(24-25)	None	
1b	Exploration over lease area for Geological axis 1 or 2.	None	None	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	None	None	
1d	Balance area to be explored to bring Geological axis in 1 or 2	552Ha	None	
1e	Balance reserves as on 01.04.2025 (in MT)	121-38.580 122-2.045 221-0.310	None	
1f	General remarks of inspecting officer on geology, exploration etc.	Exploration of the Pottangi deposit was conducted by GSI between the years 1972 and 1976. Altogether 69 core boreholes with a meterage of 1929.39m were drilled. Later during 1976-78, the South and Central blocks of Pottangi was explored by MECL in two phases by drilling 195 core boreholes with a total meterage of 5888.50m. Mining are operations yet to commence.		

### Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N2056077 to N2055524 S707149 to N706600	None	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate Benches in OB and Mineral Proposed	None	
2c	Stripping ratio or ore to OB ratio (T/T)	1:0.12	None	
2d	Quantity of topsoil generation in m <sup>3</sup>	90890	None	
2e	Quantity of overburden/waste generation in m <sup>3</sup>	127920	None	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Mining are operations yet to commence.		

### Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	None	
3b	Quantity of ROM production	3150532(t)	None	
3c	Recovery of salable/usable mineral from ROM production	100%		
3d	Quantity of mineral reject generation	Nil	NA	
3e	Grade of mineral reject generation and threshold value declared	Nil	NA	
3f	Quantity of sub-grade mineral generation	Nil	NA	
3g	Grade of sub-grade mineral	Nil	NA	

	generation			
3h	Manual / Mechanized method adopted for segregating from ROM	Nil	NA	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No such proposal	NA	
3j	Provision of drilling & blasting in mineral benches	Yes, provision made for blasting in mineral benches	None	Hole Dia-150mm, Spacing-5m, Burden-4m
3k	Provision of mining machinery in mineral benches	Yes, provision of mining machinery in mineral benches made	None	Dumper-50 to 55t, Wheel Loader-8.7 m <sup>3</sup> and backhoe shovel-6.5m <sup>3</sup>

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, Suitable	None	Bench Height-2m- OB 8 m-Mineral Bench Width-15-20 m
3m	Total area covered under excavation/pits	26.70 Ha	None	
3n	Ore to OB ratio for the pit/mine during the year(T/T)	1:0.12	None	
3o	Total area put in use under different heads at the end of year	Area under Mining-26.70 Ha Waste Dumping-2.41 Ha Top Soil Storage- 1.37 Ha	None	
3p	Production of ROM mineral during last five-year period, as applicable			
	Year- 2024-25	2839995t	None	
	Year- 2025-26	3150532t	None	
	Year- 2026-27	3500055t	None	
	Year- 2027-28	3500055t	None	
	Year- 2028-29	3500055t	None	
	Total			
3q	General remarks of inspecting officer on method of mining etc.	Mining are operations yet to commence.		

### **Solid Waste Management-Dumping**

S.N	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate Dumping of Topsoil and Waste proposed	None	
4b	Location of topsoil, OB & mineral reject dumps	Topsoil: N2056607 to E707007 Waste: N2056651 to E706915	None	
4c	Number of dumps within lease area and outside the lease area	02 Within lease area	None	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL		
4e	Number of active & alive dumps	02	None	
4f	Number of dead dumps	Nil	None	
4g	Number of dumps stabilized	Nil	None	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	None	
4i	Length of Retaining wall or garland drain all along the dump	NA	None	
4j	Number of settling ponds	Not proposed	None	
	Specific comments of inspecting officer on waste dump management	Mining are operations yet to commence		

### **Solid Waste Management-Backfilling**

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No such proposal	NA	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule	Concurrent use of topsoil proposed	None	

	32)			
5d	Total area fully reclaimed & rehabilitated	NA	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Mining operations yet to commence		

**Progressive Mine Closure Plan**

S.N	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E (2).	NA	NA	
6b	Area available for rehabilitation (ha).	NA	NA	
6c	afforestation done (ha).	9.07	Nil	
6d	No. of saplings planted during the year	22675	Nil	
6e	Cumulative no. of plants	NA	NA	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NA	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed	None	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Mining operations yet to commence		

**Mineral Conservation**

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting within lease area proposed	None	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical Method of grade-wise mineral sorting proposed	None	
7c	Different grade of mineral sorted out at mines	Alumina 42.5+-2.0%	None	
7d	Any beneficiation process at mines	No such proposal	None	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mining operations yet to commence		

**Environment**

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes, Proposed	None	
8b	Concurrent use or storage of topsoil	Yes, Proposed	None	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for waste proposed	None	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	None	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No such proposal	None	
8f	Baseline information on existence of plantation & additional plantation done	NA	None	

	(Rule 41)			
8g	Survival rate	NA	None	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed	None	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Mining operations yet to commence		

### Compliance of Rule 45

S.N.	Item	Observation of I/Officer		Remarks
9a	Status of submission of Monthly and Annual returns	No monthly or annual return have been submitted as the mine is not yet start working.		
	Item	Information as per AR	Observation	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	NA	NA	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	NA	NA	
9d	Scrutiny of Annual return on afforestation	NA	NA	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NA	NA	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NA	NA	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	NA	NA	
9h	Scrutiny of Annual return on fixed assets	NA	NA	
9i	Scrutiny of Annual return on mining machineries	NA	NA	

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Vikram Prakash Deshpande  
Date: 28-05-2025 12:56:34

(विक्रम देशपांडे)  
सहायक खान नियंत्रक