

MCDR INSPECTION REPORT

General

S. N.	Particulars	Details
1	Name of the Mine	Kodingamali Bauxite Mines
1.1	Date of Inspection & Officer Accompany	12.09.2024 & Shri Kathi Pradhan, Mines Agent & Shri Hemant Kumar Behera, Mines Manager.
2	Total Lease Area (Ha) with breakup of non-forest and forest land	428.075Ha
3	Mine code	07ORI09005
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4269/2011
5	Name of the lessee, Address, phone, email and fax number	Odisha Mining Corporation ltd, OMC House, Unit -4, PO box No-34, Bhubaneshwar-751001
6	Village	Kodingamali
7	Taluka/Mandal	Laxmipur
8	District	Koraput
9	Pin code	765013
10	State	ODISHA
11	Post office	Laxmipur
12	Nearest police station	Laxmipur
13	Nearest Railway station	Laxmipur
14	Date of Grant of Mining Lease	10.01.2017
15	Date of Execution	10.01.2017
16	Date of opening of Mine	02.02.2018
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri Balwant Singh, Managing Director & Nominated Owner, OMC House, unit-4, Po box no-34, Bhubaneshwar Phone no- 06742393431,2395689
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri Kathi Pradhan Regional Manager (SZR) Odisha Mining Corporation ltd, At- Barijhol, Dist-Rayagada, Odisha-765002 Mobile no-9437249086 Date of Appointment- 11.10.2021
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri Hemant Kumar Behera Mines Manager, Kodingamali Bauxite Mine At/Po – Laxmpur, Dist – Koraput, Odisha – 765013 Mobile No.: +91-9437415894 Date of Appointment:

		29.09.2022
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mining Engineer: Sri Surendra Majhi B Tech in Mining Engineering Total Experience:10yrs Kodingamali Bauxite Mine At/Po – Laxmpur, Dist – Koraput, Odisha – 765013 Mobile No.: +91-9438659357 Date of appointment-01.03.2021
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Geologist: Sri Subhodip Ghosh M.Sc Geology Total Experience:09yrs Kodingamali Bauxite Mine At/Po – Laxmpur, Dist – Koraput, Odisha – 765013 Mobile No.: +91-7073860217 Date of appointment-16.09.2022
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	Yes
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	10.11.2021(RMP) period :2022-23 to 2026-27
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	10.11.2021
28	Mineral(s) granted in lease and proved for mining	Bauxite
29	Method of Mining (Opencast, Underground)	Opencast
30	Category (Fully Mechanized, Others or Manual)	A-Fully Mechanized
31	Captive/non-captive	Non-Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

1. Exploration:

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for Geological axis 1 or 2.	NIL	NIL	100% G1 Explored
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserves as per latest approved document	61548550	67548550	RMP 2022-2027
1f	General remarks of inspecting officer on geology, exploration etc.	<p>The boundary of the deposit is highly irregular on account of its dissected peripheral edges; bauxite is exposed on the escarpments / slopes.</p> <p>Strike / Trend of the Ore Body: NNE-SSW</p> <p>Amount of dip of Orebody: 60⁰ to 80⁰</p> <p>Dip Direction of the Ore Body: EES or WWN.</p> <p>The lease area is broadly explored in G1.</p>		

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Development

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
2a	Location of development w.r.t. lease area	Q-1: E/W- 718428-718892 N/S- 2109480-2110624 Q-2: E/W-719090-719437 N/S-2111067-2111699	Broadly with in proposed area	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	OB Bench:1 Ore Bench:5	OB Bench:1 Ore Bench:5	Top Soil: Max height 0.5m (hence no bench)
2c	Stripping ratio or ore to OB ratio	Q1: -1:0.27 Q2:1:0.38	Q1: -1:0.08 Q2:1:0.5	
2d	Quantity of topsoil generation in m3	Q1:70000 Q2:51000	Q1:29975 Q2:26870	
2e	Quantity of overburden generation in m3	Q1: -1070000 Q2: -760000	Q1: -1,73,388 Q2: -4,30,323.327	EC Constraint of 3 MTPA, Mine Plan for 6 MTPA
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	The development is broadly within proposed area but quantity wise only 33% of the proposal..		

EXPLOITATION

N.	Item	Proposals for 2023-24	Actual work during 2023-24	Remark
3a	Number of pits proposed for production	2	2	
3b	Quantity of ROM mineral production proposed	6 million tonne	3 million tonne	EC Constraint
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	0	0	
3e	Grade of mineral reject generation and threshold value declared	Cut off-30% Al ₂ O ₃ Cut off-7% SiO ₂	Cut off-30% Al ₂ O ₃ Cut off-7% SiO ₂	
3f	Quantity of sub-grade mineral generation	0	0	
3g	Grade of sub-grade mineral generation	0	0	

3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No	No	
3j	Provision of drilling & blasting in mineral benches	150 mm dia blast hole	150 mm dia blast hole	
3k	Provision of mining machineries in mineral benches	Dumper & Shovel Combination	Dumper & Shovel Combination	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	105.306	72.81	
3n	Ore to OB ratio for the pit/mine during the year	Q1: -1:0.27 Q2:1:0.38	Q1: -1:0.08 Q2:1:0.5	
3o	Total area put in use under different heads at the end of year	251.982 Ha.	158.84 Ha.	
3p	Production of ROM mineral during last five-year period, as applicable (in MT) 1. 2019-20 2. 2020-21 3. 2021-22 4. 2022-23 5. 2023-24	2019-20-30,00,000 2020-21-60,00,000 2021-22-60,00,000 2022-23-60,00,000 2023-24-60,00,000	2019-20-30,00,000 2020-21-29,99,500 2021-22-30,00,000 2022-23-30,00,000 2023-24-30,00,000	
3q	General remarks of inspecting officer on method of mining	The method of mining is broadly as per proposal by opencast method using HEMM with deep hole drilling with Combination of Excavator and tippers. But the production is 50% of the proposal in 2023-24.		

Solid Waste Management-Dumping

S.N.	Item	Proposals for 2023-24	Actual work during 2023-24	Remark
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	Yes	Yes	
4b	Location of topsoil, OB & mineral reject dumps	Top Soil E/W: 717969 – 718136 N/S: 2107870 – 2107950	Top Soil E/W: 717969 – 718136 N/S: 2107870 – 2107950	
4c	Number of dumps within lease area and outside lease area	In side-01 Outside-0	In side-01 Outside-0	
4d	Location of dumps w.r.t. ultimate pit limit	2108638N-2111642N 718216E-719366E	2108642N-2109272N 718459E-718662E	
4e	Number of active & alive dumps	1	1	
4f	Number of dead dumps	0	0	
4g	Number of dumps stabilized	1	1	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	Garland-560 Retaining wall-550	Garland-560 Retaining wall-550	
4j	Number of settling ponds	0	0	

4k	Specific comments of inspecting officer on waste dump management	Broadly as per proposal.
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Solid Waste management -Backfilling

S.N.	Item	Proposals for 2023-24	Actual work during 2023-24	Remark
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Full	Full	
5b	Area under backfilling of mined out area	12.95(Ha.)	12.98(Ha.)	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	60500(m3)	56845 (m3)	
5d	Total area fully reclaimed & rehabilitated	12.92Ha.	8.80 Ha.	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Concurrent backfilling and afforestation done as per proposal.		

Progressive Mine Closure Plan

N.	Item	Proposals for 2023-24	Actual work during 2023-24	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	Yes	Yes	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	i)Area available for rehabilitation-1.5 (ha) ii) Afforestation done (ha)-0Ha iii) No. of saplings planted during the year-3750 iv) Cumulative no. of plants: -18750 v) Any other specific method of rehabilitation: NA vi) Cost incurred on watch & care during the year -Rs.9,97,500/-	Area available for rehabilitation.1.9(ha) ii) Afforestation done (ha)-0Ha iii) No. of saplings planted during the year-3750 iv) Cumulative no. of plants-21107 v) Any other specific method of rehabilitation: NA vi) Cost incurred on watch & care during the year - Rs:7,85,14,993/-	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making	i) Voids available for backfilling (L X B X D): 428m*186m*10m ii) Void filled by waste/tailings: 12.98 Ha. iii) Afforestation on the backfilled area: -1.5 Ha	i) Voids available for backfilling (L X B X D): 650m*100m*10m ii) Void filled by waste/tailings: 12.98 Ha. iii) Afforestation on the backfilled area: -	

	water reservoir v) Any other specific means	iv) Rehabilitation by making water reservoir: - Nil v) Any other specific means: -Nil	1.9 Ha iv) Rehabilitation by making water Reservoir: -Nil v) Any other specific means: - Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) Afforestation :0 Ha ii) Area rehabilitated: - 1.5(ha) iii)Method of Rehabilitation: NA	i)Afforestation: -0Ha ii) Area rehabilitated: 1.9(ha) iii)Method of Rehabilitation: NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	As per Statutory requirement	As per Statutory requirement	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Broadly done as per proposal.		

Mineral Conservation

S.N.	Item	Proposals for 2023-24	Actual work during 2023-24	Remark
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Yes	
7b	Method of grade-wise mineral sorting i.e., manual or mechanical	Mechanically	Mechanically	
7c	Different grade of mineral sorted out at mines	Yes	Yes	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The different grade material blend for desired grade for dispatch.		

Environment

S.N.	Item	Proposals for 2023-24	Actual work during 2023-24	Remark
8a	Separate removal and utilization of topsoil (Rule 36)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Yes	Yes	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation & additional Plantation done	16100 (till 2022-23), Target for 2023-24:3750	Baseline: 17357 Actual for 2023-24: 3750	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The lessee is taking care of all environmental preventive measures as per statute i.e Air, Water, Noise, ground vibration monitoring. The plantation is done and dust suppression water sprinkling is done on regular basis. There is no adverse impact observed during mine visit on aesthetic beauty in and around mines area.		

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto Aug-2024 A.R. Submitted upto FY 2023-24		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager-1 Mining Engineer-1 Geologist-1	Manager-1 Mining Engineer-1 Geologist-1	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Yes	
9d	Scrutiny of Annual return on afforestation	Yes	Yes	
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	Yes	Yes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Yes	Yes	
9i	Scrutiny of Annual return on fixed assets	Yes	Yes	
9k	Scrutiny of Annual return on mining machineries	Yes	Yes	

10. Drone Survey Information and data thereof.

Submitted as per SOP.