

MCDR INSPECTION REPORT-2024**General**

S. N.	Particulars	Details																																													
1	Name of the Mine	Baphlimali Bauxite Mine																																													
1.1	Name of Inspecting Officer with Designation	Rajesh Kumar Das, DCOM																																													
1.2	Date of Inspection & accompany officer	10.09.2024 & Shri Vijay Kumar Singh.Chauhan(Agent), Shri Amar Bharti(Mine Manager)																																													
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	<p>Total Lease Area- 1388.74 Ha</p> <table border="1"> <thead> <tr> <th colspan="2">FOREST</th> <th colspan="3">NON FOREST</th> </tr> <tr> <th></th> <th></th> <th>Class of Land</th> <th>Type of Land</th> <th>Area in Ha</th> </tr> </thead> <tbody> <tr> <td>Forest</td> <td>Area (Ha)</td> <td>Waste Land</td> <td>AA A</td> <td>1155.397</td> </tr> <tr> <td></td> <td></td> <td>ii) Grazing Land</td> <td></td> <td>0</td> </tr> <tr> <td></td> <td></td> <td>iii) Agricultural Land</td> <td></td> <td>0</td> </tr> <tr> <td></td> <td></td> <td>iv) Water bodies</td> <td></td> <td>0</td> </tr> <tr> <td></td> <td></td> <td>v) Hills</td> <td></td> <td>0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TOTAL</td> <td>233.343</td> <td></td> <td></td> <td>1155.397</td> </tr> </tbody> </table>	FOREST		NON FOREST					Class of Land	Type of Land	Area in Ha	Forest	Area (Ha)	Waste Land	AA A	1155.397			ii) Grazing Land		0			iii) Agricultural Land		0			iv) Water bodies		0			v) Hills		0						TOTAL	233.343			1155.397
FOREST		NON FOREST																																													
		Class of Land	Type of Land	Area in Ha																																											
Forest	Area (Ha)	Waste Land	AA A	1155.397																																											
		ii) Grazing Land		0																																											
		iii) Agricultural Land		0																																											
		iv) Water bodies		0																																											
		v) Hills		0																																											
TOTAL	233.343			1155.397																																											
3	Mine code	07ORI27001																																													
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/75/2011																																													
5	Name of the lessee, Address, phone, email and fax number	M/s Utkal Alumina International Ltd. J-6, Jaydev Vihar, Bhubaneswar-751013, Odisha Phone : 0674-2360540 / 581 E-mail ID : utkal.alumina@adityabirla.com Website : www.adityabirla.com																																													
6	Village	Paikkupakhal, Karanjakupakhal, Dhuturapass, Danadabad and Chandragiri in Rayagada district and Durumusi, Suryagada and Kendumundi in Kalahandi district.																																													
7	Taluka/Mandal	Kashipur in Rayagada & T. Rampur in Kalahandi district.																																													
8	District	Rayagada & Kalahandi																																													
9	Pin code	765015																																													
10	State	Odisha																																													
11	Post office	Kucheipadar																																													
12	Nearest police station	Andirakanch																																													

13	Nearest Railway station	Tikiri
14	Date of Grant of Mining Lease	10.06.1997
15	Date of Execution	17.02.1998
16	Date of opening of Mine	03.11.2012
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 Surya Kanta Mishra Utkal Alumina International Ltd. At : Doraguda, P.O : Kucheipadar, Via : Tikiri, Dist : Rayagada-765015 (Odisha). Phone : 06865 287077, DoA-01 st Aug 2016
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Vijay Kumar Singh.Chauhan Utkal Alumina International Ltd. At : Doraguda, P.O : Kucheipadar, Via : Tikiri, Dist : Rayagada-765015 (Odisha). Fax : 06865 287100 Mob :9921341888 DoA-16/01/2024
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr Amar Bharti Utkal Alumina International Ltd. At : Doraguda, P.O : Kucheipadar, Via : Tikiri, Dist : Rayagada-765015 (Odisha). Mob : 9304857952 DoA-12/09/2023 Qualification -Degree with first class competency
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr Subhransu Bhusan Sahoo Utkal Alumina International Ltd. At : Doraguda, P.O : Kucheipadar, Via : Tikiri, Dist : Rayagada-765015 (Odisha). Mob : 7752020760 Experiences- 12 years DoA-26 th Nov 2019 Qualification -Degree in mining engineering
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr Krishna Ch Jyotishi MSc Geology with 25 years of experience At : Doraguda, P.O : Kucheipadar, Via : Tikiri, Dist : Rayagada-765015 (Odisha). Mob : 9937010455 Experiences- 31 years DoA- 01 st Dec 2018 Qualification -MSc in Geology
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.	314(3)/2006-MCCM©/MP-10 dated 01.02.2007
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	MRMP/A/20-ORI/BHU/2020-21/1202 Dated 09.11.2021.
28	Mineral(s) granted in lease and proved for	Bauxite

	mining	
29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
31	Captive/Non Captive	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.)

Exploration

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
1a	Backlog of previous year	No Proposal	NA	Lease has been explored in G1 category since 2017-18 and the exploration details has been reported to IBM in last Review of mining plan.
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal		Total lease are explored in G1 category
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA		
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA		Total leases are explored in G1 category
1e	Balance reserves as per latest approved document(as on 01.04.23)	No Proposal	154.855 Mt	
1f	General remarks of inspecting officer on geology, exploration etc.	This M.L area is a part of Baphlimali hill, which is located in the Western Khondalite Zone, hence the parent rock of the Bauxite deposits is majorly Khondalite suite of rocks. The Lease is characterized by a NE-SW trending bauxite capping surrounded by Khondalite on the slopes. Broadly the mineralized area in lease explored in G1.		

Development

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
2a	Location of development w.r.t. lease area	705351 E to 707760 E & 2139564 N to 2141595 N	705252 E to 707759 E & 2139565 N to 2142594 N	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Overburden-Bench-1 Ore-Bauxite-Bench- 2 to 4	Overburden-Bench-1 Ore-Bauxite-Bench- 2 to 4	
2c	Stripping ratio or ore to OB ratio (T/T)	1:0.75	1:0.70	

2d	Quantity of topsoil generation in m3	61462	58651	
2e	Quantity of overburden generation in m3	2699092	2534820	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	The development is broadly as per proposal with concurrent backfilling.		

EXPLOITATION

N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
3a	Number of pits proposed for production	Pit-1	Pit-1	There is only one pit exists. However, we are progressing both north & south direction as per approved mining plan.
3b	Quantity of ROM mineral production proposed	6992170 Tonnes	6991255 Tonnes	From both north & south direction
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	
3f	Quantity of sub-grade mineral generation	581234	Nil	
3g	Grade of sub-grade mineral generation	+30 -40% Al ₂ O ₃ -7% SiO ₂ (total)	+30 -40% Al ₂ O ₃ -7% SiO ₂ (total)	
3h	Manual / Mechanised 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	100% OB and 50% Ore benches	100% OB and 50% Ore benches	
3k	Provision of mining machineries in mineral benches	As per requirement	As per requirement	
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	233.58 Ha	233.85 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.75	1:0.70	
3o	Total area put in use under different heads at the end of year	247.693 ha	258.239 Ha	
3p	Production of ROM(T) mineral during last six-year	2018-19-5315777 T 2019-20-5299830 T	2018-19-5299500 T	

	period, as applicable 2016-17 2017-18 2018-19	2020-21-5384539 T 2021-22-6038502 T 2022-23-7002866 T 2023-24-6992170 T	2019-20-5297000 T 2020-21-5299830 T 2021-22-5998340 T 2022-23-6999810 T 2023-24-6991255 T	
3q	General remarks of inspecting officer on method of mining	There is only one pit exists. However, the excavation progressing both north & south direction as per approved mining plan. The bottom most bench is not excavated as per proposal and selected mining is done in bottom bench.		

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)	Concurrent backfilling of OB within mined out pit and use of top soil in plantation	Concurrent backfilling of OB within mined out pit and use of top soil in plantation	
4b	Location of topsoil, OB & mineral reject dumps	NIL	NIL	
4c	Number of dumps within lease area and outside lease area	NIL	NIL	
4d	Location of dumps w.r.t. ultimate pit limit	No external dump will be there	No external dump will be there	
4e	Number of active & alive dumps	Nil	Nil	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilized	NA	NA	
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	Retaining wall-0 Mtr Garland drain-2810 Mtr	Retaining wall-0 Mtr Garland drain-2850 Mtr	
4j	Number of settling ponds	-	-	
4k	Specific comments of inspecting officer on waste dump management	Broadly as per proposal.		

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	Fully excavated	Fully excavated	
5b	Area under backfilling of mined out area	17.28 ha	17.45 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Concurrent use for plantation	Concurrent use for plantation	
5d	Total area fully reclaimed &		Reclaimed-141.204	

	rehabilitated		Ha Rehabilitated-88.75 Ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Broadly 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-14.88 ha ii) Afforestation-29.51 ha iii) Propose No. of saplings planted during the year - 73775 nos. iv) Cumulative no. of plants - v) Any other specific method of rehabilitation -Nil vi) Cost incurred on watch & care during the year - NA	i) Area available for rehabilitation-14.88ha ii) Afforestation done-30.20 ha iii) No. of saplings planted during the year -83063 nos. iv) Cumulative no. of plants -509843 v) Any other specific method of rehabilitation -Nil vi) Cost incurred on watch & care during the year - NA	
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 water reservoir v) Any other specific means	i) Voids available for backfilling (L X B X D) -17.28 Ha ii) Void filled by waste/tailings - 17.28 ha iii) Afforestation on the backfilled area -14.51 iv) Rehabilitation by making water reservoir-Nil v) Any other specific means-Nil	i) Voids available for backfilling (L X B X D) -17.45 Ha ii) Void filled by waste/tailings - 17.45 ha iii) Afforestation on the backfilled area -14.88 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-14.51 Ha ii) Area rehabilitated (ha)-14.51 iii) Method of rehabilitation-Plantation	i) Afforestation-14.88 Ha ii) Area rehabilitated (ha)-14.88 iii) Method of rehabilitation-Plantation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	As per guidelines	As per guidelines	
6f	General remarks of inspecting officer on PMCP compliance &	No comments.		

	progressive closure operations	
--	--------------------------------	--

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	Captive use Bauxite- '+40% Al ₂ O ₃ & - 7% SiO ₂ (total) and Subgrade- +30 - 40% Al ₂ O ₃ & -7% SiO ₂ (total)	Blend different area material to get desired grade.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	mechanical	mechanical	
7c	Different grade of mineral sorted out at mines	NA	NA	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Blend different grade material to get desired grade.		

Environment

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
8a	Separate removal and utilization of topsoil (Rule 36)	61462 Cubm	58651 Cubm	
8b	Concurrent use or storage of topsoil	61462 Cubm	58651 Cubm	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	No external dumping	No external dumping	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling	Backfilling	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation & Rehabilitation concurrently	Reclamation & Rehabilitation concurrently	
8f	Baseline information on existence of plantation & additional Plantation done	-	104872	
8h	Water sprinkling on roads to control airborne dust	Regular sprinkling by mobile & fixed water sprinkler	Regular sprinkling by mobile & fixed water sprinkler	
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'24 A.R. Submitted upto Fy'2023-24	

S.N.	Item	Details given in A.R. for the year 2023-24	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager-1 Mining Engineer-1 Geologist-1	Mr Amar Bharti(Mine Manager) Mr Subhransu Bhusan Sahoo(Mining Engineer) Mr Krishna Ch Jyotishi(Geologist)	
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	NA	NA	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Yes	Yes	
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.