

MCDR INSPECTION REPORT 2021-22

General:

S.N.	PARTICULARS	DETAILS
1	Name of the Mine	Barima Bauxite mine
2	Date of Inspection:	24.06.2022
3	Name of Inspecting Officer	Shri D. Upadhyay Senior Assistant Controller of Mines
4	Name of official accompanying inspection	Shri Abhishek Dewangan, Asstt. Geologist Shri Raj Kumar, Mines Manager
5	Last date of Inspection & Officer	16/01/2020, Shri R. N. Mishra
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	54.268 Ha (Non Forest)
7	Mine code	07CHG 16010
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/8239/2011
9	Name of the Lease, Address, Phone, email and fax number	Barima Bauxite mine Village-Barima, Taluka-Mainpat, District - Surguja, Chhattisgarh Email-cmdcambikapur@gmail.com
10	Village	Barima
11	Taluka/Mandal	Mainpat
12	District	Surguja
13	Pin code	497111
14	State	Chhattisgarh
15	Post Office	Kamleshwarpur
16	Nearest Police Station	Kamleshwarpur
17	Nearest Railway Station	Ambikapur
18	Date of Grant of Mining Lease	08.02.2010 for 30 years
19	Date of Execution	08.02.2010
20	Weekly day of rest	Thursday
21	Date of opening of Mine	01.04.2017
22	Date of First Renewal, if applicable and its period & expiry	NA
23	Date of Second Renewal, if applicable and its period & expiry	NA
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Jay Prakash Maurya, Ward no.-1, Indra nagar, Lailunga, Raigarh, Chhattisgarh-496113, Phone no- 771-2960539, email-cmdcraipur@gmail.com, date of appointment- 08.06.2021
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri A.P. Shah DGM (G) Chhattisgarh Mineral Development Corporation Ltd. Housing Board Colony Namnakala

		Ambikapur District Surguja (C.G.) 497001 Email- cmdcambikapur@gmail.com Mo. 9425581270 date of appointment- 25.09.2019
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Raj Kumar, BE Mining Chhattisgarh Mineral Development Corporation Ltd. Village & Post office - Narmadapur Tahsil Mainpat District Surguja (C.G.) 497111 Mo. 7647080297 Date of Appointment - 05.05.2022
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Raj Kumar, BE Mining Chhattisgarh Mineral Development Corporation Ltd. Village & Post office - Narmadapur Tahsil Mainpat District Surguja (C.G.) 497111 Mo. 7647080297 Date of Appointment - 05.05.2022
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Smt. Pooja Singh, Geologist
30	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	26.04.2019
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	26.04.2019 2019-20 to 2023-24
32	Mineral(s) granted in lease and approved for Mining	Bauxite
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanized, Others or Manual)	Mechanized
35	Captive/Non-Captive	Non-Captive
36	Present EC Status	115327TPA vide dated 28/01/2016
37	Status of Financial Assurance	Rs 10469400/-Valid up to 31.03.2024

Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:

1.0 Exploration:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
1a	Backlog of previous year Proposals	Not proposed	Nil	Backlog of 24 bore holes of 2019-20 proposal have drilled by lessee in 2020-21.
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	Nil	Lease area is explored under G1 level of exploration.
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not proposed	Nil	
1e	Balance reserves as on 01.04.2022	525528.5T		
1f	General remarks of Inspecting officer on geology, exploration etc.	Backlog of 24 bore holes of 2019-20 proposal have drilled by lessee in 2020-21. Lease area is explored under G1 level of exploration.		

2.0 Development:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
2a	Location of Development w.r.t. lease area	N253164-E738620 N2522300-E738650	N2522500-E738620 N2523500-E738650	Development is as per proposal.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in topsoil & OB	Separate benches in topsoil & OB are maintained.	Separate benches in topsoil & OB are maintained.
2c	Stripping ratio or ore to OB ratio	1:0.23	1:0.02	
2d	Quantity of topsoil generation in m ³	273080	102140	Top soil generation is less due to less ROM production
2e	Quantity of overburden generation in m ³	230828 (Laterite+waste)	44100	Waste generation is less due to less ROM production
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development is carried out within approved proposal.		

3.0 Exploitation:

S.N	Item	Proposals (2021-22)	Actual Work	Remarks
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.			(2021-22)		
3a	Number of pits proposed for production	02 Pits	02pits		
3b	Quantity of ROM mineral production proposed	115276T	67112.5T	Less production due to poor market demand.	
3c	Recovery of Salable/usable mineral from ROM production	115276T	67112.5T	Less production due to poor market demand.	
3d	Quantity of mineral reject generation	26943 & 26988	0 & 20503.630		
3e	Grade of mineral reject generation and threshold value declared	Not proposed	Nil	Grade Controlled by blending.	
3f	Quantity of sub-grade mineral generation	Not proposed	Nil		
3g	Grade of sub-grade mineral generation	Not proposed	Nil		
3h	Manual/Mechanized method adopted for segregation from ROM	Manual	Manual	Manual segregation	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Nil		
3j	Provision of drilling & blasting in mineral benches	Drilling and blasting is proposed,	Drilling and blasting is carried out as per proposal.	Drilling and blasting is carried out as per proposal.	
3k	Provision of mining machineries in mineral benches	Shovel and dumper combination	Shovel and dumper combination	Excavator, Loader and Dumper are equipped to winning out the mineral.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Bench height is suitably matched with the excavator.	
3m	Total area covered under excavation /pits	32.003ha during plan period	7.12ha.	7.12ha covers under pit	
3n	Ore to OB ratio for the pit/mine during the year	1:0.23	1:0.02		
3o	Total area put in use under different heads at the end of year	34.898 ha	15.23 ha	15.23 ha covers under different head	
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	2017-18	115327T	113972.0T	Less production due to poor market demand.
		2018-19	114759T	61855.40T	
		2019-20	115265T	42309.30T	
		2020-21	115083T	0	
		2021-22	115276T	67112.5T	
3q	General remarks of inspecting officer on method of mining etc	The ROM production has been carried out from two pits as per proposal.			

4.0 Solid Waste Management-Dumping:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Not proposed	Nil	Concurrent backfilling is proposed.
4b	Location of topsoil, OB & mineral reject dumps	Not proposed	Nil	--do--
4c	Number of Dumps within lease area and outside lease area	Not proposed	Nil	--do--
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Nil	--do--
4e	Number of Active & Alive dumps	Not proposed	Nil	--do--
4f	Number of dead dumps	Not proposed	Nil	--do--
4g	Number of dumps established	Not proposed	Nil	--do--
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	Nil	
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific commends of inspecting officer on waste dump management	Mined out is proposed for concurrent backfilling.		

5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	6.52ha	6.52ha	
5b	Area under backfilling of mined out area	6.52ha	6.52ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Backfilling area for plantation purpose.	Backfilling area for plantation purpose.	Backfilling area for plantation purpose.
5d	Total area fully reclaimed & rehabilitated	6.52ha in 2021-22	About 7.12 ha has been backfilled.	About 7.12 ha has been backfilled.
5e	General remarks of inspecting officer on backfilling, reclamation etc	Concurrent backfilling of mined out area is practiced.		

6.0 Progressive Mine Closer Plan:

S. N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26 (2). Details should be given in the format as given in Annexure-20	As per provision of MCDR 2017.	Annual report on PMCP submitted.	Annual report on PMCP submitted.
6b	Management of worked/mined out			

	benches			
	Area available for rehabilitation (Ha)	6.52ha backfilled area	6.52ha backfilled area	6.52ha backfilled area
	Afforestation done (ha)	6.52ha backfilled area	6.52ha backfilled area	6.52ha backfilled area
	No. of saplings planted during the year	6500 no.	6576no.	6576no.
	Cumulative no. of plants	Not specified	8576 no.	8576 no.
	Any other specific method of rehabilitation	None	None	
	Cost incurred on watch & care during the year	-	-	
6c	Compliance on reclamation and rehabilitation by backfilling Voids available for backfilling (L*B*D) Void filled by waste/tailings Afforestation on the backfilling Rehabilitation by making water reservoir Any other specific means	6.52ha backfilling area with 6500 no. of plantation	6.52ha backfilled area with 6576 no. of plantation	6.52ha backfilled area with 6576 no. of plantation
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	Not proposed	Nil	6.52ha backfilled area with 6576 no. of plantation
6e	Compliance of Environment monitoring (core zone & buffer zone)	Quarterly monitoring	Quarterly monitoring	Quarterly monitoring
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Concurrent backfilling of mined out area is practiced.		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Manual sorting	Manual sorting	Manual sorting
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sort out at mine	Yes	Yes	
7d	Any beneficiation process at mines	Not proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Manual sorting of different grade is practiced at mine site.		

8.0 Environment:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Concurrent use of top soil proposed.	Concurrent use of top soil is practiced.	Concurrent use of top soil is practiced.
8b	Concurrent use or storage of topsoil	Concurrent use of top soil proposed.	Concurrent use of top soil is practiced.	Concurrent use of top soil is practiced.
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not proposed	Nil	Concurrent Backfilling
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Concurrent Backfilling	Concurrent Backfilling	Concurrent Backfilling
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Concurrent Backfilling	Concurrent Backfilling	Concurrent Backfilling
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	6500 no. of plantation	6576 no. of plantation	6576 no. of plantation
8g	Survival rate	0%	65%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Water sprinkling on roads to control airborne dust by water tanker.
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mines area is maintained by plantation.		

9.0 Compliance of Rule 45:

S N	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	AR & MR submitted regularly.		AR & MR submitted regularly.
S N	Item	Details Given in A.R.	Observation of I/Officer	
9 b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer, geologist employment is furnished	Mining engineer, geologist are employed in the mine.	Mining engineer, geologist are employed in the mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	7.12ha under pits.	7.12ha under pits.	7.12ha under pits.
9	Scrutiny of Annual return on	6576 no. of	6576 no. of	6576 no. of

d	afforestation	plantation	plantation	plantation
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	NIL	NIL	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	40% to below 45%Al ₂ O ₃ closing stock: 35859.410T	40% to below 45%Al ₂ O ₃ closing stock: 35859.410T	40% to below 45%Al ₂ O ₃ closing stock: 35859.410T
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	40% to below 45%Al ₂ O ₃ Rs 812.54T	40% to below 45%Al ₂ O ₃ Rs 812.54T	40% to below 45%Al ₂ O ₃ Rs 812.54T
9i	Scrutiny of Annual return on Fixed assets	NIL	NIL	
9k	Scrutiny of Annual return on mining Machineries	Back hoe, Dumper, Water Tanker	Back hoe, Dumper, Water Tanker	Back hoe, Dumper, Water Tanker

10- Details of violations observed during last inspection and the compliance status.

No violation observed during inspection.

Date:

Signature:
Name: (D. UPADHYAY)
Designation: Sr. ACOM