

MCDR Inspection Report 2023-24

General:

S.N.	PARTICULARS	DETAILS
1	Name of the Mine	Barima Bauxite mine
2	Date of Inspection:	28.03.2025 MCDR (Virtual Inspection)
3	Name of Inspecting Officer	Prasant Kumar Sahu Assistant Controller of Mines
4	Name of official accompanying inspection	Virtual Inspection based on the Digital Aerial Images i.e. Drone Survey Image submitted by the lessee in the online DDMS portal for the year 2023-24
5	Last date of Inspection & Officer	20.04.2023, Shri D. Chinchkhede, ACOM
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area (Ha)- 54.268 Ha. Non-Forest -54.268 Ha. Forest- 0.00 Ha.
7	Mine code	07CHG16010
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
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 Sunil Kumar Jain, IAS Sector 24, Block No. 7A, 3rd Floor, Nawa Raipur (C.G.), Pin-492015 Phone No- 07714283557/4043477, Email-cmdcraipur@gmail.com, Date of appointment- 30.01.2024
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Upandra Kumar, Chhattisgarh Mineral Development Corporation Ltd. Sector 24, Block No. 7A, 3rd Floor, Nawa Raipur (C.G.), Pin-492015 Phone No- 07714283557/4043477, Email-cmdcraipur@gmail.com,
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.	Yes, Shri Raj Kumar, Mining Engineer Shri Abhishek Dewangan, Geologist
30	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	-
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 (A or B)	A
35	Captive/Non-Captive	Non-Captive
36	Present EC Status	115327 TPA vide dated 28/01/2016
37	Status of Financial Assurance	Amount of Bank Guarantee (Lac INR) Rs. 191.75 valid up to 31.03.2029

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

1.0 Exploration:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
1a	Backlog of previous year Proposals	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	No exploration has been proposed in the approved Review of Mining Plan during F.Y. 2023-24	Nil	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	No proposal	Not Applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	No proposal	Not Applicable	Area covered as per approved RMP G1- 45.85 Ha. G3- 8.41 Ha.
1e	Balance reserves as on 01.04.2024	Under 121- 480743.00Tonnes		As per approved RMP dated 19.01.2024. Deficiencies observed in the submitted Annual Return and the same was intimated to the lessee for rectification.
1f	General remarks of Inspecting officer on geology, exploration etc.	No exploration has been proposed during the financial year 2023-24. Remaining area under G-3 to be explored by 2024-25 to bring the entire potential mineralised area under G-1 level of exploration.		

2.0 Development:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
2a	Location of Development w.r.t. lease area	In between Coordinates N 2522750- N 2523360 E 738240 – E738760	Carried out within the proposed area	As verified virtually

2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in topsoil & OB	Separate benches in maintained	Separate benches in topsoil & OB are maintained
2c	Stripping ratio or ore to OB ratio	1:0.36	1:0.02	Tonne:Cum
2d	Quantity of topsoil generation in m ³	208629	Not verified due to virtual inspection	
2e	Quantity of overburden generation in m ³	105235 (Laterite+Waste)	1435.59	As reported in Annual Return 2023-24
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Mining activities observed carried out in the Safety Zone of 7.5 meters between pillar no. BP-01 to BP-50 in Block-A and between pillar no. BP-130 to BP-137 in Block-B of the ML area; without such proposal in the approved Review of Mining Plan. Violation of Rule 11(1) of MCDR 2017 issued on 25.04.2025.		

3.0 Exploitation:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
3a	Number of pits proposed for production	No specific pits proposed. Production proposed in different location of the lease area in between UTM coordinates N 2522750- N 2523360 E 738240 – E 738760	04 pits as verified from the Drone Image	
3b	Quantity of ROM mineral production proposed	113940 T	66073 T	
3c	Recovery of Saleable/usable mineral from ROM production	113940 T	66073 T	
3d	Quantity of mineral reject generation	No proposal	Nil	No generation of Mineral Rejects reported

3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual/Mechanized method adopted for segregation from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil	
3j	Provision of drilling & blasting in mineral benches	Drilling and blasting proposed	Not verified due to virtual inspection	
3k	Provision of mining machineries in mineral benches	Yes, HEMMS	HEMMs deployed	As reported in submitted Annual Return 2023-24
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in Mining Plan	Yes	Yes	
3m	Total area covered under excavation /pits	32.003 Ha. up to plan period 2023-24	11.68 Ha. up to FY 2023-24	As per the approved RMP dated 19.01.2024. Incorrect information reported in submitted Annual Return for 2023-24 and the same was intimated to the lessee for rectification.
3n	Ore to OB ratio for the pit/mine during the year	1:0.23	1:0.02	Tonne:Cum
3o	Total area put in use under different heads at the end of year	34.898 Ha. up to plan period 2023-24	15.31 Ha. up to FY 2023-24	As per the approved RMP dated 19.01.2024. Incorrect information reported in submitted Annual Return for 2023-24 and the same was intimated

					to the lessee for rectification.
3p	Production of ROM mineral during last five-years period, as Applicable (Tonne)	2019-20	115265	42309.30	(All units in MT) As per AR submitted
		2020-21	115083	00	
		2021-22	115276	67112.5	
		2022-23	115290	22210	
		2023-24	113940	66073	
3q	General remarks of inspecting officer on method of mining etc.	Mining activities observed carried out in the Safety Zone of 7.5 meters between pillar no. BP-01 to BP-50 in Block-A and between pillar no. BP-130 to BP-137 in Block-B of the ML area; without such proposal in the approved Review of Mining Plan. Violation of Rule 11(1) of MCDR 2017 issued on 25.04.2025.			

4.0 Solid Waste Management-Dumping:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	No proposal	Nil	Concurrent backfilling is proposed
4b	Location of topsoil, OB & mineral reject dumps	No proposal	Nil	
4c	Number of Dumps within lease area and outside lease area	No proposal	Nil	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	
4e	Number of Active & Alive dumps	No proposal	Nil	
4f	Number of dead dumps	No proposal	Nil	
4g	Number of dumps established	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific commends of inspecting officer on waste dump management	No proposal for separate dumping of topsoil and overburden were envisaged in the approved Review of Mining Plan.		

5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling proposed after full extraction of mineral	Being carried out as per proposal	
5b	Area under backfilling of mined out area	5.31 Ha.	5.18 Ha. upto 2023-24	As per the approved RMP dated 19.01.2024.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Concurrent use proposed	Not verified due to virtual inspection	
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Concurrent backfilling of the mined out/exhausted pits are being carried out as no dumps are observed from the submitted Drone Image.		

6.0 Progressive Mine Closer Plan:

S. N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26 (2).	To be submitted before 01st July every year	PMCP report not received in time	Violation of Rule 26(2) of MCDR 2017 issued on 25.04.2025.
6b	Management of worked/mined out benches			
	Area available for rehabilitation (Ha)	5.31 Ha.	5.18 Ha. upto 2023-24	As per the approved RMP dated 19.01.2024.
	Afforestation done (Ha)	5.31 Ha.	5.18 Ha. upto 2023-24	
	No. of saplings planted during the year	5300 Nos.	0.00 Nos. saplings with in lease area and 2656 Nos. saplings outside lease area	Area not available for plantation, as per agreement with land owner, land has to be handed over to land owner for agriculture. The above reason was furnished at para 8.2.8.2 of the approved RMP dated 19.01.2024

	Cumulative no. of plants	Not specified	Nil	
	Any other specific method of rehabilitation	No proposal	Nil	
	Cost incurred on watch & care during the year	Not specified	Nil	
6c	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L*B*D) (ii) Void filled by waste/tailings (iii) Afforestation on the backfilling (iv) Rehabilitation by making water reservoir (v) Any other specific means	(i) 5.31 Ha. (ii) By waste (iii) 5300 Nos. (iv) No proposal (v) No proposal	(i) 5.18 Ha. up to 2023-24 (ii) By waste (iii) 0.00 Nos. with in lease area and 2656 Nos. outside lease area (iv) Nil (v) Nil	As per the approved RMP dated 19.01.2024 and submitted Annual Return
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	No proposal	Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environmental monitoring proposed	Not verified due to virtual inspection	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Annual PMCP report was not submitted in time. Violation of Rule 26(2) of MCDR 2017 issued on 25.04.2025.		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Proposed for manual sorting	Manual sorting carried out	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	No proposal	Nil	
7d	Any beneficiation process at mines	Not proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM is being processed/sorted manually and stacks are being made for dispatch of the minerals.		

8.0 Environment:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Concurrent use proposed	Not verified due to virtual inspection	
8b	Concurrent use or storage of topsoil	Concurrent use of proposed	Not verified due to virtual inspection	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	No proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed for concurrent backfilling	Not verified due to virtual inspection	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	Proposed for concurrent backfilling	Not verified due to virtual inspection	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	5300 Nos.	0.00 Nos. saplings with in lease area and 2656 Nos. saplings outside lease area	Area was not available for plantation, as per agreement with land owner, land has to be handed over to land owner for agriculture. The above reason was furnished at para 8.2.8.2 of the approved RMP dated 19.01.2024.
8g	Survival rate	Not specified	65%	
8h	Water sprinkling on roads to control airborne dust	Yes	Not verified due to virtual inspection	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	As observed from virtual inspection, the aesthetic beauty in & around the mine area is good.		

9.0 Compliance of Rule 45:

S. N.	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	MR being submitted regularly AR Submitted up to FY2023-24		AR Submitted on 04.06.2024
S. N.	Item	Details Given in A.R.	Observation of I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager and Mining Engineer- Shri Raj Kumar Geologist-Shri Abhishek Dewangan	As reported in AR 2023-24	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current Working- 0.00 Ha. Reclaimed/Rehabilitated-0.6 Ha.	Incorrect information reported in submitted Annual Return for 2023-24 and the same was intimated to the lessee for rectification	
9d	Scrutiny of Annual return on afforestation	0.00 Nos. saplings with in lease area and 2656 Nos. saplings outside lease area	0.00 Nos. saplings with in lease area and 2656 Nos. saplings outside lease area	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	No generation of mineral rejects reported	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	ROM opening stock- Nil Production- 66073 Closing stock- Nil	ROM opening stock- Nil Production- 66073 Closing stock- Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex-Mine Price: Rs. 412.67/ MT Cost of Production: Rs. 844.64/ MT Sale value- Rs. 11396163.00	Ex-mine price (₹/tonne) and the sale value (₹/tonne) of the bauxite dispatched are inconsistent with the reported cost of production per tonne of ore/mineral produced as cost of production reported higher than the ex-mine price or sale value furnished. Deficiencies observed	Letter issued on 25.04.2025

			in the submitted AR 2023-24 was intimated to the lessee for rectification.	
gi	Scrutiny of Annual return on Fixed assets	₹ 0.00	As reported in AR 2023-24	
9 k	Scrutiny of Annual return on mining Machineries	Excavator – 01 No. Dumper- 04 Nos., Drill machine- 01 Nos. Water Tanker- 01 No.	As reported in AR 2023-24	

10- Details of violations observed during current inspection: -

- Violation of Rule 11(1) and 26(2) of MCDR 2017 is pointed out after current inspection.
- Letter issued to the Directorate of Geology and Mining, Govt. of Chhattisgarh on dated 25.04.2025 requested therein to verify and initiate action for carrying out excavation for quarry development extended beyond the lease boundary near to pillar no. BP-01 to BP-50 in Block-A and between pillar no. BP-130 to BP-138 in Block-B as observed from the Digital Aerial Images i.e. Drone Survey Images submitted by lessee in the online Drone Data Management System portal for the year 2023-24.

11- Analysis of DAI and submission of the scrutiny reports in the MIDPAS portal.

As per the directives issued by the CCOM (I/C) dated 23.09.2024, the digital imageries (Drone Data) submitted by the lessee has been analysed and some deficiencies are observed. Hence, returned back to lessee for rectification.

प्रशान्त कुमार साहू / Prasant Kumar Sahu
सहायक खान नियंत्रक / Assistant Controller of Mines
भारतीय खान ब्यूरो, रायपुर / Indian Bureau of Mines, Raipur