

1/28189/2024

**MCDR inspection REPORT**

**Jabalpur regional office**

**Mine file No :** MP/KATNI/BAUXITE-59

**Mine code :** 07MPR47022

- (i) Name of the Inspecting : **G007** ) **RAGHUBIR SHARAN GARG**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Abhay Singh, Mining Engineer of the Mine and Shr  
Official with  
Designation
- (iv) Date of Inspection : 21-FEB-24
- (v) Prev.inspection date : 11-MAR-20

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PADWAR BAUXITE 25.82HA.**
- (b) **Registration NO.** : **IBM/7220/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : KATNI  
Village : PADWAR  
Taluka : BAHORIBAND  
Post office : PADWAR  
Pin Code : 483440  
FAX No. : 224227  
E-mail : -info.mstpl@ gmail.com  
Phone : 6263653646
- (f) Police Station :
- (g) First opening date : 17-NOV-14
- (h) Weekly day of rest : SUN
2. Address for :  
correspondence
3. (a) Lease Number : MPR2409  
(b) Lease area : 25.82  
(c) Period of lease : 30  
(d) Date of Expiry : 12-FEB-42
4. Mineral worked : BAUXITE Main

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## 5. Name and Address of the

Lessee : KATNI MINERALS PVT LTD  
26, COMMERCIAL COMPLEX  
HOUSING BOARD COLONY KATNI  
KATNI MADHYA PRADESH  
Phone: 9425153520  
FAX :NA  
Email: info.kmpl02@gmail.com

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 01-MAR-16  
Plan/Scheme of Mining : MP review under 17(1) MCR 2016 17-MAR-21

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## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Eight boreholes of total meterage of 120m proposed against 2020-21, Nine number of boreholes of total 125m and 2 trial pits each of 6mX6mX60 size against year 2021-22 and three trial pits each of of 6mX6mX60 size against year 2022-232022-23.	Not carried out.	Deviation pointed out through violation of rule 11(1) vide letter dated 04/03/202
1b	Exploration over lease area for geological axis 1 or 2	18.41hect from G2 to G1 level and 7.41hect from G3 to G1 level	Not carried out remains 18.41hect as G2 1 and 7.41hect as G3 level	Deviation pointed out through violation of rule 12(3) of MCDR vide letter dated 04/03/2024
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed.	Not applicable.	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	7.41hect G3 level area into G1 level.	Not carried out.	As stated in earlier violation of rule 12(3) pointed out vide letter dated 04/03/2024.
1e	Balance reserve as on 01/04/20	Reserve as on 01/04/2023 122 782695T 222 91287T	Reserve as on 01/04/2023 122 793168T 222 91287T	-

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1f General remarks of inspecting officers on geology, exploration etc

Most of the mineralized lease area has not been explored fully as per UNFC Guidelines by the lessee in past. Hence, lessee was instructed to propose further exploration to convert G2 & G3 reserves/resources into G1 level of exploration. Further, lessee had not commenced exploratory work proposed in ROMP for the period 2021-22 to 2025-26 as per the provisions of Rule 12(4) of MCDR, 2017. Proper violation has been pointed out vide letter dated 04/03/2024.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to work in Quarry -2 towards north-east and west directions.	As per approved proposal.	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in lateritic top soil (OB) of 1.0m height and three benches each of 3.0m height in mineral.	As per proposal. However in certain part sufficient advancement of OB bench was not observed. At spot advise were given for maintaining sufficient advancement of OB bench from the mineral bench.	-
2c	Stripping ratio or ore to OB ratio	1:0.18	1:0.38	-

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2d	Quantity of topsoil generation in m3	1330cum	1330cum	8750cum OB/IB including 1330cum lateritic soil generated during the year.
2e	Quantity of overburden generation in m3	6117cum	8750cum including 1330cum lateritic soil.	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Total 12 working pits of different dimensions and maximum depth of bauxite mineralisation of 12m proved/established in Pit No-1 of 200m x (10-62)m x (2.5 - 12.0)m. Bauxite mineralisation very well seen in all the pits

## Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	Working proposed t in pit no-2 (quarry No.2)	Working carried out in pit no-2 (quarry No.2)	-
3b	Quantity of ROM mineral production proposed	32828T	22960T	-
3c	Recovery of sailable/usable mineral from ROM production	Proposed as 70% of total ROM	As per proposal.	Rest 30% is considered as top lateritic soil, laterite & clay.
3d	Quantity of mineral reject generation	Not proposed	NA	Except intercalated clay found with ROM ore rest ROM have market either in the form of bauxite or in the name of laterite.
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed.	NA	-

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3f	Quantity of sub grade mineral generation.	Not proposed.	NA	-
3g	Grade of sub grade mineral generation	Not proposed.	NA	-
3h	Manual / Mechanised method adopted for segregating from ROM	Manual sizing & sorting proposed	Manual sizing & sorting .	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	NA	-
3j	Provision of drilling and blasting in mineral benches	Not proposed	NA	-
3k	Provision of mining machineries in mineral benches	L & T PC-200 of 0.90 Cum capacity TATA Dumper model 2515, 10 T capacity Water Tanker - 5KL capacity Water pump with Diesel engine	L & T PC-200 of 0.90 Cum capacity TATA Dumper model 2515, 10 T capacity Water Tanker - 5KL capacity Water pump with Diesel engine	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 1m proposed in OB Bench height of 3m proposed in bauxite ore	At some extent bench height is not regular due to quality constraints	-
3m	Total area covered under excavation/pits	3.57HECT ( UPTO 31/03/2026.	2.8HECT	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.18	1:0.38	-
3o	Total area put in use under different heads at the end of year	8.57hect ( upto 31/03/2026)	6.52hect ( upto 31/03/2023)	-

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3p	Production of ROM mineral during the last five year period	2018-19-: 74987 T 2019-20-: 74987 T	2018-19-: 1463 T 2019-20-: 4323 T 2020-21-: 1300 T 2021-22-: 24400 T	-
	as applicable	2020-21-: 74987 T 2021-22-: 25005 T 2022-23 -: 32828 2020-21-:	2022-23-: 22960 T	

3q	General remarks of inspecting officers on method of mining etc.			Excavator /JCB & dumper combination without drilling & blasting adopted as per approved proposal is suitable for the deposit. There is no need to change the method of mining operation.
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## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping proposed at earmarked location against the year	Dumping carried out as per the proposals	-
4b	Location of topsoil, OB and mineral reject dumps	Dumping was proposed on central and eastern part of lease area	As per proposal.	-
4c	Number of dumps within lease area and outside of lease area	There are 02 dumps one for	Two( 02) dumps one one for top soil and OB	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)		a n d a l i v e d u m p	top soil and another for OBdisposal Dumps proposed within ultimate pit limits but away from five years working limit Active dumps -02 Nos
4e	Number of active			

disposal respectively.  
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Dumping carried out as per  
proposal.

-

Active dumps -02 Nos

All 02  
dumps are  
of OB  
dumps



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4f	Number of dead dumps.	Not proposed.	NA	-
4g	Number of dumps established.	Not proposed.	NA	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Details not provided in approved document	NA	-
4i	Length of Retaining wall or garland drain all along dumps	Details not provided in approved document	NA	-
4j	Number of settling ponds	Not proposed	NA	-
4k	Specific comments of inspecting officer on waste dump management			Around 30% of OB and mine waste are being generated and dumping of this material proposed at earmarked locations. Top soil is mostly of lateritic soil.

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Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not proposed.	NA	-
5b	Area under backfilling of mined out area	Not proposed.	NA	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use	Concurrent use of top soil also proposed	Concurrent use of top soil for plantation purpose carried out
5d	Total area fully reclaimed and rehabilitated	Not proposed.	NA	-

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5e General remarks of inspecting officers on backfilling and reclamation etc. Backfilling proposed after year under review.

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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposed	PMCP report submitted.	-
6b	Area available for rehabilitation (ha) .	Not proposed.	NA	-
6c	afforestation done (ha) .	0.1hect	0.1hect	-
6d	No. of saplings planted during the year	150 saplings.	150 saplings.	50% survival
6e	Cumulative no .of plants	300 saplings	350saplings	50% survival
6f	Any other method of rehabilitation	Not proposed	NBA	-
6g	Cost incurred on watch and care during the year	Not proposed	Not maintained.	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	0.50hect	0.3hect	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	NA	-

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6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not proposed	NA	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	NA	-
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	NA	-
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	0.1 hect	0.1 hect	-
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not proposed	NA	-
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not proposed	NA	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Record of environmental monitoring were checked during inspection and found ok.	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Area is devoid of OB/Waste, hence scope of backfilling/reclamation & rehabilitation doesn't exist. Periodic monitoring is being carried out by outsourced consultant.

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## Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	32828T	ROM bauxite pro. 22960T ROM Mineral dispatch Nil Cement grade Bauxite prod. 22960T Refractory grade bauxite pro. 150T Cement Grade Bauxite dispatch 3985.37T Closing stock - Cement Grade 32408T Refractory grade 159.175T Refractory grade	Entire ROM ore produced from the mine during the year (22960tone) is reported as cement grade production under Grade wise production of mineral. Beside this production of 150tone refractory grade bauxite is also reported under grade wise production whereas there was no opening stock of ROM at the beginning of the year under consideration. For the anomaly violation of rule 45(7) pointed out vide letter dated 04/03/2024.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized screening and manual sorting.	As per proposal	-
7c	Different grade of mineral sorted out at mines.	Bauxite having >50% Al <sub>2</sub> O <sub>3</sub> & 6% SiO <sub>2</sub> proposed to be sorted for Plant grade & rest cement grade bauxite	Sorting carried out as per the given proposals	-
7d	Any beneficiation process at mines	Not proposed	NA	-

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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Mineral is being conserved by grade wise sorting in the lease area. Bauxite having >50% Al <sub>2</sub> O <sub>3</sub> & -6% SiO <sub>2</sub> proposed to be sorted for refractory plant grade and rest non-plant grade (NPG) bauxite proposed to be sell to the nearby cement plants.
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## Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	As per proposal.	-
8b	Concurrent use or storage of topsoil	Both, concurrent use and storage proposed.	As per proposal.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of OB proposed at earmarked locations	Dumping carried out at earmarked locations	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed.	NA	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	NA	-

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation proposed during the year 2022-23	150 saplings planted during the year 2022-23	-
8g	Survival rate	Unavailable in approved document.	50%	-
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Regular water sprinkling is done by water tanker	Water tanker of 5KL capacity is provided for the purpose-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Hence, more planation within mining lease area & outside ML area is required.

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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submission of M.R. and AR	Monthly Return upto january,2024 and Annual Return for the year 2022-	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	23 found submitted. Mining Engineer- Shri Abhay Kumar Singh Geologist Shri Kumar raj	Shri Abhay Kumar Singh, Mining Engineer and Dr. Muniram Yadav geologist was present in the mine on the day of inspection of the mine. Reportedly Shri Kumar Raj, Geologist of the mine was on leave.

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	(i) Already exploited and aban. by O-C mining 0.500 (ii) Covered under current O-C Workings 2.800 (iii) Reclaimed-rehabilitated 0.000 (iv) Used for waste disposal 0.800 (v) Occupied by plant, buildings and roads 0.500 (vi) Used for any other purpose MINERAL STACK, 2.020	-
9d	Scrutiny of Annual return on afforestation	Given	150saplings	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Nil	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	ROM stock Nil Cement Grade Stock 32408T Refractory Grade stock 159.175T	Entire ROM ore produced from the mine during the year (22960tone) is reported as cement grade production under Grade wise production of mineral. Beside this production of 150tone refractory grade bauxite is also reported under grade wise production whereas there was no opening stock of ROM at the beginning of the year under consideration.

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Sale value Rs. 777/57 cement grade Ex Mine Price i. Rs. 758/20 Cem Gr ii. Rs. 1204/92 Ref Gr  Cost of production Rs. 535/98	There is anomaly in Reported Ex Mine price. As per calculation it comes Rs. 777/57 for cement grade bauxite, whereas it is reported as Rs. 758/20 for cement grade bauxite. Matter discussed about calculation of Ex Mine price during field visit of the mine. Similarly in calculation of cost of production taxes had not taken into account. Royalty and dead rent both have taken into account in cost of production calculation violation of rule 45(7) pointed out on 04/03/2024
9k	Scrutiny of Annual return on mining machineries	Given	Sho 0.9 cum cap 1 No. Dumper 16 tonner 3 No.	-



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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show Couese position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	04-MAR-24			
MCDR17	Rule 12(3)	04-MAR-24			
MCDR17	Rule 31(4)	04-MAR-24			
MCDR17	Rule 34(1)	04-MAR-24			
MCDR17	Rule 45(7) (a)	04-MAR-24			

**Date :12/03/2024****(RAGHUBIR SHARAN GARG)**  
Indian Bureau of Mines