

**MCDR inspection REPORT**

**Jabalpur regional office**

**Mine file No :** MP/KATNI/BX-56

**Mine code :** 07MPR47020

- (i) Name of the Inspecting : **C004** ) **ROBERT SIMON C**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Sourabh Nayak (Mining Engineer)  
Official with  
Designation
- (iv) Date of Inspection : 27-SEP-23
- (v) Prev.inspection date : 05-FEB-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **TIKARIYA (4.010 HA)**
- (b) **Registration NO.** : **IBM/10077/2011**
- (c) Category : A
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : KATNI  
Village : Tikariya  
Taluka : KATNI  
Post office : PAHADI  
Pin Code : 483501  
FAX No. :  
E-mail : atulkumarguptaco@yahoo.co.in  
Phone : 9630057584
- (f) Police Station : Pahari
- (g) First opening date : 01-APR-10
- (h) Weekly day of rest : SUN
2. Address for : MotiBagh, Mai Nadi Par Heera  
correspondance : Ganj, Katni  
(M.P.) 483501
3. (a) Lease Number : MPR2460
- (b) Lease area : 4.01
- (c) Period of lease : 20
- (d) Date of Expiry : 21-SEP-29
4. Mineral worked : BAUXITE Main  
FIRECLAY Associated  
LATERITE Associated

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## 5. Name and Address of the

Lessee : MOTILAL BAJAJ  
HEERAGANJ, KATNI  
MADHYA PRADESH Phone:  
9425157584  
FAX :NA

Owner : MOTILAL BAJAJ  
HEERAGANJ, KATNI  
MADHYA PRADESH Phone:  
9425157584  
FAX :NA

6. Date of approval of Mining : Mining Scheme rule 12 MCDR 1988 24-JUL-14  
Plan/Scheme of Mining MP review under 17(1) MCR 2016 16-SEP-20

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

## EXPLORATION :

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	16 boreholes proposed	16 boreholes carried out	
1b	Exploration over lease area for Geological axis 1 or 2.	proposed	Entire area explored in G-1	
1c	Exploration Agency	Not specified	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	NA	NA	
1e	Balance reserves	Not specified	261043 tonne	
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire area is covered by soil/residual soil cover ranging from 2 to 3m with a topsoil cover of 0.5 to 1m as seen in working pit and adjoining lease. Below the soil cover Bauxite is found more then 45 meters continues downwards. The Laterite and Fireclay is associated with the Bauxite in the mineralized zone.		

## Development :

Sl.No.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Pit 1 to be developed towards south and in depth	During inspection the same was not observed despite the pit being waterlogged.	Violation pointed out under Rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Proposed	During inspection the same was not observed despite the pit being waterlogged.	Violation pointed out under Rule 11(1) of MCDR 2017.
2c	Stripping ratio or ore to OB ratio	1:0.12	1:0.11	-
2d	Quantity of topsoil generation in m3	Nil	Nil	

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2e	Quantity of overburden generation in m <sup>3</sup>	6162	2074	Violation pointed out under Rule 11(1) of MCDR 2017.
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Only 2074 m <sup>3</sup> of topsoil is generated against the proposal of 6162 m <sup>3</sup> of topsoil for the year 2022-23. During inspection the same was not observed despite the pit being waterlogged. In view of this the pit bottom configuration of benches in the pit could not be ascertained. Hence Violation pointed out under Rule 11(1) of MCDR 2017.		

## Exploitation :

Sl.No.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	02 pits were proposed for production	During inspection the same was not observed despite the pit being waterlogged.	Violation pointed out under Rule 11(1) of MCDR 2017.
3b	Quantity of ROM production proposed (2022-23)	18739 t	17700 t	
3c	Recovery of Salable/usable mineral from ROM production	80%	80%	
3d	Quantity of mineral reject generation	Nil	Nil	No mineral reject generation
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	No mineral reject generation
3f	Quantity of sub-grade mineral generation	Nil	Nil	No sub-grade mineral generation
3g	Grade of sub-grade mineral generation	Nil	Nil	No sub-grade mineral generation
3h	Manual/Mechanized method adopted for segregation from ROM	manual	Manual & Mechanical	
3i	Any analysis or beneficiation study proposed & carried out for	No analysis or beneficiation study proposed	No analysis or beneficiation study carried	

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	sub- grade mineral and reject			
3j	Provision of drilling & blasting in mineral benches	Nil	Nil	
3k	Provision of mining machineries in mineral benches	proposed	As per proposal	
3l	Whether height of benches in OB and mineral suitable for method of mining proposed in MP/SOM	Proposed	The pit being waterlogged & pit bottom configuration of benches could not be ascertained.	Violation pointed out under Rule 11(1) of MCDR 2017.
3m	Total area covered under excavation /pits	3.0ha	2.9262ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.12	1:0.11	
3o	Total area put in use under different heads at the end of year	3.75	3.39 ha	
3p	Production of ROM mineral during last five-year period, as applicable	2020-21-18402 2021-22-18477 2022-23-18739	16000 18350 17700	
3q	General remarks of inspecting officer on method of mining etc	It was mentioned to deploy 3 nos of pumps to regularly discharge water. During inspection the same was not observed despite the pit being waterlogged. Inview of this the pit bottom configuration of benches in the pit could not be ascertained. Violation pointed out under Rule 11(1) of MCDR 2017.		

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Solid waste management-dumping :

Sl.No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping of topsoil & OB proposed	Separate dumping of topsoil & OB done	

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4b	Location of topsoil, OB & mineral reject dumps	Not proposed	Nil
4c	Number of Dumps within lease area and outside lease area	Nil	Nil
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA
4e	Number of Active & Alive dumps	Nil	Nil
4f	Number of dead dumps	Nil	Nil
4g	Number of dumps established	Nil	Nil
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	
4k	Specific commends officer on waste dump management	Only 2074 m3 of topsoil is generated against the proposal of 6162 m3 of topsoil for the year 2022-23. Violation pointed out under Rule 11(1) of MCDR 2017.	

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Solid waste management-backfilling :

Sl.No.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	full extraction of mineral from mined out area before starting backfilling proposed	full extraction of mineral from mined out area before starting backfilling adopted	
5b	Area under backfilling of mined out area	0.1140	0.1105	

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5c	Concurrent use of Topsoil for restoration or rehabilitation of mined out area (Rule 32)	Spreading for afforestation	Spreading for afforestation
5d	Total area fully rehabilitated	Not specified	3023 m2 reported in returns
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling & reclamation were carried out as per approved proposals.	

### Progressive mine closer plan

Sl.No.	Item	Proposals	Actual Work	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	Yes	The information furnished in the PMCP report is incomplete and inconsistent with the Annual Returns.	Violation pointed out under Rule 26(2) of MCDR 2017.
6b	Management of worked/mined out benches	Nil	NA	
	i)Area available for rehabilitation (Ha)	Nil	NA	
	ii)Afforestation done (ha)	0.11	0.11	
	iii)No. of saplings planted during the year	110	105	
	iv)Cumulative no. of plants	Not specified for the year	215 (approx.)	
	v) Any other specific method of rehabilitation	Nil		
	vi)Cost incurred on watch & care during the year	Not specified	NA	

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6c	Compliance on reclamation and rehabilitation by backfilling	NA	NA
	i) Voids available for backfilling (L X B X D)	NA	NA
	ii) Void filled by waste/tailings	NA	NA
	iii) Afforestation on the backfilled area	NA	NA
	iv) Rehabilitation by making water reservoir	NA	NA
	v) Any other specific means	NA	NA
6d	Compliance of Rehabilitation of waste land within lease	NA	NA
	i) Afforestation	NA	NA
	ii) Area rehabilitated(ha)	NA	NA
	iii) Method of rehabilitation	NA	NA
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environment monitoring proposed	Carried out
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Afforestation being done in line with approved PMCP.	

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Mineral conservation :

Sl.No.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral dispatch proposed	ROM mineral dispatch after Manual sorting done	

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual sorting proposed	Manual sorting done
7c	Different grade of mineral sort out at mine	Not specified	Cement grade bauxite
7d	Any beneficiation process at mines	Nil	Nil
7e	General remarks of ROM mineral dispatch after manual sorting being done in inspecting officer the lease. on Mineral conservation & beneficiation issues		

## ENVIRONMENT

Sl.No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	proposed	Topsoil utilized for plantation	
8b	Concurrent use or storage of topsoil	Topsoil to be utilized for plantation	Topsoil utilized for plantation	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not specified	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Generated waste was proposed to be used for backfilling during conceptual period	Adopted	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed	Backfilling adopted	

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8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed	105 nos of saplings planted.
8g	Survival rate	80%	70%
8h	Water sprinkling on roads to control airborne dust	yes	Regular Water sprinkling on roads to control airborne dust is in practice by lessee's water tanker.
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty improvement.	in and around mine area needs

## Compliance of rule 45 :

Sl.No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of monthly and Annual returns	Annual returns & Monthly returns to be submitted till online	Returns are submitted online.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	The details wrt to Manager, Mining Engineer & Geologist are not furnished	Violation pointed out under Rule 45(7) of MCDR 2017.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited and abandoned by opencast (O-C) mining 0.000 3.551 3.551 (ii) Covered under current (O-C) Workings 0.000 0.000 0.000 (iii) Reclaimed-rehabilitated 0.000 3.023 3.023	The details wrt to Lease area (surface area) utilization as at the end of year is incorrectly furnished.	Violation pointed out under Rule 45(7) of MCDR 2017.

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		(iv) Used for waste disposal 0.000 0.000 0.000		
		(v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.000 0.000		
		(vi) Used for any other purpose (specify) 0.000 0.000 0.000		
		(vii) Work done under progressive mine closure plan during the year 0.000 3.551 3.551		
9d	Scrutiny of Annual return on afforestation	Given	Total no. of trees at the end of the year is incorrectly furnished.	Violation pointed out under Rule 45(7) of MCDR 2017.
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	Given	Opening stock (Cement grade Bauxite) 14770.720 T Production : 17700 Despatches: 21333.12T	
9g	Scrutiny of Annual return on sale value, Ex Mine price & production costs	Given	Closing stock : 11137.591 T Cost of production - Rs.702; Ex mine price- Rs.750	
9i	Scrutiny of Annual return on Fixed assets	Nil	The Value of Fixed Asset is mentioned as "Nil"	

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9k Scrutiny of  
Annual return  
on mining  
Machineries

Given

AIR COMPRESSOR 0.000  
CUM/MN 1

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Details of violations observed during current inspection and compliance position of violation pointed out					
Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 11(1)	09-JAN-24		Rule 11(1)	03-MAY-24	
Rule 26(2)	09-JAN-24		Rule 26(2)	03-MAY-24	
Rule 45(7)	09-JAN-24		Rule 45(7)	03-MAY-24	

**Date :****(ROBERT SIMON C)**

Indian Bureau of Mines