

MCDR-MiFLOBXT/21/2023-JBP-IBM\_RO\_JBP  
INDIAN BUREAU OF MINES

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/11159/2023

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/KATNI/LAT.-15

Mine code : 75MPR47003

- (i) Name of the Inspecting : C004 ) ROBERT SIMON C  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shankarlal VIsHWakarma (Lessee Representative), M Gos  
Official with  
Designation
- (iv) Date of Inspection : 17-NOV-22
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) Mine Name : TIKARIA (4.69HA)
- (b) Registration NO. :
- (c) Category : A
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : KATNI  
Village : TIKARIA  
Taluka : MURWARA  
Post office : NIWAR  
Pin Code :  
FAX No. : N. A.  
E-mail : N. A.  
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 27-SEP-99
- (h) Weekly day of rest :
2. Address for : SHRI POORAN LAL VISHWAKARMA  
correspondance JALPADEVI WARD, KATNI (M.P.) 483501
3. (a) Lease Number :
- (b) Lease area :4.69
- (c) Period of lease :50
- (d) Date of Expiry :06-03-48
4. Mineral worked : BAUXITE Associated  
FIRECLAY Associated  
LATERITE Main

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## 5. Name and Address of the

Lessee : POORAN LAL VISHWAKARMA  
JALPA DEVI WARD KATNI  
MADHYA PRADESH  
Phone:N. A.  
FAX :N. A.

Owner : POORAN LAL VISHWAKARMA  
JALPA DEVI WARD KATNI  
MADHYA PRADESH  
Phone: N. A.  
FAX : N. A.

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	06-APR-06
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	12-AUG-11
		Mining Scheme rule 12 MCDR1988	12-MAR-14
		MP modif under 17(3) MCR 2016	05-NOV-18

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Not specified	G2: 4.69 ha already explored	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	G2: 4.69 ha to be explored in G1.	
1e	Balance reserve as on 01/04/20	Not specified	122-153275 T	
1f	General remarks of inspecting officers on geology, exploration etc			ML area belongs to mahakaushal group of rocks. Bauxite of the area is light brownish to brown in color , medium hard to soft in nature. At places, pisolitic farm of bauxite is seen. Bauxite and laterite are intercalated.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	North west side near lease boundary of mine area	North west side near lease boundary of mine area	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Only mineral benches proposed	mineral benches maintained	
2c	Stripping ratio or ore to OB ratio	NA	NA	
2d	Quantity of topsoil generation in m3	NA	NA	

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2e	Quantity of overburden generation in m3	NA	NA	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The working place is deviated but the mining is carried out systematically by forming proper benches. The ROM mineral is dispatched as bauxite or minor mineral (laterite) to nearby cement plants.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	03	03	
3b	Quantity of ROM mineral production proposed	29337 T	27800 T	
3c	Recovery of sailable/usable mineral from ROM production	55% Bauxite & 45% minor mineral Laterite from ROM	About 55% Bauxite & 45% minor mineral Laterite from ROM. 100% ROM is dispatched.	
3d	Quantity of mineral reject generation	Not proposed	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	Not proposed	NA	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not done
3j	Provision of drilling and blasting in mineral benches	Not proposed	Not done as deposition is soft in nature.
3k	Provision of mining machineries in mineral benches	Not specified	Type of machinery Capacity of each unit No. of units Electrical/Non-Electrical (specify) Used in opencast/underground (specify) DUMPER 19.000 TONNE 2 Non Electrical Opencast PUMPS (NON-ELEC.) 10.000 L/MN 1 Non Electrical Opencast WATER TANKER 4500.000 LITRE 1 Non Electrical Opencast
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		Details of Benches (Separately for mechanised and manual sections) In ore In OB/Waste (i) Number of Benches Manual 3 0 (ii) Average height (meters) Manual 3 0
3m	Total area covered under excavation/pits	Not specified	2.77 ha
3n	Ore to OB ratio for the pit/mine during the year.	NA	NA
3o	Total area put in use under different heads at the end of year	Not specified	3.1 ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18 48162 2018-19 15032 2019-20 51087 2020-21 51397 2021-22 29337	2017-18 - 70t 2018-19 -nil 2019-20 -43100t 2020-21- 50200t 2021-22-27800 t.

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3q	General remarks of inspecting officers on method of mining etc.	The mining is carried out with the Combination of loaders and tippers
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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)	Not proposed	NA	
4b	Location of topsoil, OB and mineral reject dumps	Not proposed	NA	
4c	Number of dumps within lease area and outside of lease area	Not proposed	NA	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	NA	
4e	Number of active and alive dumps.	Not proposed	NA	
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.	Not proposed	NA	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	NA	
4j	Number of settling ponds	Not proposed	NA	
4k	Specific comments of inspecting officer on waste dump management			OB & waste generation not proposed hence not applicable.The whole ROM is mineral Bauxite & minor mineral laterite.

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## Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not proposed	Not applicable as full depth of mineral not exhausted and also no OB & waste available for backfilling in future.	
5b	Area under backfilling of mined out area	Not specified	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed	NA	
5d	Total area fully reclaimed and rehabilitated	Not proposed	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Not applicable as full depth of mineral not exhausted and also no OB & waste available for backfilling in future.

## Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Submitted	
6b	Area available for rehabilitation (ha) .	Not proposed.	NA	
6c	afforestation done (ha) .	.0009HA.	.0009HA.	
6d	No. of saplings planted during the year	10	About 10 trees planted as proposed.	
6e	Cumulative no .of plants	Not proposed.	About 50 trees (approx.)	
6f	Any other method of rehabilitation	Not proposed.	NA	

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6g	Cost incurred on watch and care during the year	Not proposed.	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	Not proposed.	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed.	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on 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	Not proposed.	NA
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not proposed.	NA



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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)	Not proposed.	Not done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP operation needs upgradation.

## Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting proposed.	Manual sorting done	
7c	Different grade of mineral sorted out at mines.	Not specified	Cement grade	
7d	Any beneficiation process at mines	Not proposed	Not done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM mineral dispatched after sorting.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	Not done	
8b	Concurrent use or storage of topsoil	Not proposed	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	NA	
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	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	10 trees plantation proposed for the year.	About 10 trees planted during the year	
8g	Survival rate	80%	40%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed	Water sprinkling on roads to control airborne dust carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area needs improvement.

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**Compliance of Rule 45:**


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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	MR & AR to be submitted online	MR & AR submitted onlin.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mining Engineer in charge RAMANAND Geologist in charge AJAY AGNIHOTRI
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Lease area (surface area)utilisation as at the end of year(hectares) Underforest Outsideforest Total (i) Already exploited & abandoned byopencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C)Workings 0.000 3.165 3.165 (iii) Reclaimed/Rehabilitated 0.000 0.200 0.200 (iv) Used for waste disposal 0.000 0.000 0.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.056 0.056 (vi) Other Purpose (GREEN BELT) 0.000 0.108 0.108
9d	Scrutiny of Annual return on afforestation	Given	(a) Within lease area (b) Outside leasearea (i) Number of trees planted during the year 20 0 (ii) Survival rate in percentage 40 0
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not proposed	Not generated

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9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	ROM Stock-nil & graded ore Bauxite-21317 t.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Sale value & ex mine price for Bauxite mineral is Rs. 658/-t .Cost of production Rs. 754.21/t
9h	Scrutiny of Annual return on fixed assets	Given	Fixed assets Rs. 33423412/-
9k	Scrutiny of Annual return on mining machineries	Given	In actual dumpers & Water tanker deployed.

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

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

Date :

(ROBERT SIMON C)

Indian Bureau of Mines