

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION**

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KATNI/LAT-38

Mine code : 75MPR47015

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 28-JUN-21
- (v) Prev.inspection date : 31-JAN-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TIKARIYA (27.02 HA)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village :
Taluka :
Post office :
Pin Code :
FAX No. : NA
E-mail : NA
Phone : NA
- (f) Police Station : NIWAR
- (g) First opening date :
- (h) Weekly day of rest :
2. Address for : SHRI SHANKAR LAL VISHWAKARMA
correspondance : JALPA DEVI WARD, KATNI (M.P.) 483501
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked : LATERITE Main
BAUXITE Associated
FIRECLAY Associated

5. Name and Address of the

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

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

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	03-JUN-04
Plan/Scheme of Mining		Modif.of approved Mining Plan	28-JUL-09
		Mining Scheme rule 12 MCDR1988	02-MAY-11
		Mining Scheme rule 12 MCDR1988	03-JUN-15
		MP modif under 17(3) MCR 2016	29-JUN-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	15 boreholes proposed	nil	Violation pointed out under rule 11(1) of MCDR 2017.
1b	Exploration over lease area for geological axis 1 or 2	proposed to explore entire area to G1 axis	not done.Previously explored upto G1=20.4350 ha G2=2.5548 ha	Violation pointed out under rule 11(1) of MCDR 2017.
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		G2=2.5548 ha G3=4.0302 ha	
1e	Balance reserve as on 01/04/20	2.595 million tonnes	2.595 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The bauxite in the lease area is in the form of irregular shaped intermix with laterite and fire clay.proposed exploration is not achieved.Hence Violation pointed out under rule 11(1) of MCDR 2017.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	(2624420-2624630)N to (439810-439990)E	(2624430-2624620)N to (439820-439970)E	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	01 OB and 05 Mineral benches proposed	01 OB and 02 Mineral benches observed	Violation pointed out under rule 11(1) of MCDR 2017.
2c	Stripping ratio or ore to OB ratio	1:0.0803	1:0846	
2d	Quantity of topsoil generation in m3	not proposed	not done	
2e	Quantity of overburden generation in m3	13200 m3	5000m3	Violation pointed out under rule 11(1) of MCDR 2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Overall development is lagging. Violation pointed out under rule 11(1) of MCDR 2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	PIT-A	PIT-A	
3b	Quantity of ROM mineral production proposed	203030 tonnes	87450 tonnes	Violation pointed out under rule 11(1) of MCDR 2017.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	not proposed	nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NA	NA	

3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	NA	
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	NA	NA	
3k	Provision of mining machineries in mineral benches	Proposed	As per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	06 nos of benches proposed	03 benches observed	Violation pointed out under rule 11(1) of MCDR 2017.
3m	Total area covered under excavation/pits	20.99 ha	19.833 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.0803	1:0846	
3o	Total area put in use under different heads at the end of year	20.66 ha	20 ha (approx.)	
3p	Production of ROM mineral during the last five year period as applicable	2016-17 198450 2017-18 307441 2018-19 219240 2019-20 216880 2021-21 203030	2016-17 75000 2017-18 76250 2018-19 69700 2019-20 84900 2021-21 87450	

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	not done	
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	
4c	Number of dumps within lease area and outside of lease area	NA	NA	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	
4e	Number of active and alive dumps.	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Garland drain-120 m(approx). is constructed along the boundary	
4j	Number of settling ponds	nil	nil	
4k	Specific comments of inspecting officer on waste dump management			Waste generated backfilled in the barrier zone

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	Backfilling is carried out in the barrier zone	

5b	Area under backfilling of mined out area	nil	nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	not proposed	not done	
5d	Total area fully reclaimed and rehabilitated	nil	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			area not mined out to start backfilling

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	not submitted	Violation pointed out under rule 26(2) of MCDR 2017.
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	

6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	as per proposal	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP report not submitted. Violation pointed out under rule 26(2) of MCDR 2017.

Mineral Conservation:

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

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	backfilling will be adopted once the mineral is mined out	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		PMCP report not submitted.	Violation pointed out under rule 26(2) of MCDR 2017.
8g	Survival rate	NA	NA	
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.	

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		AR not submitted for the year 2020-21	Violation pointed out under rule 45(7) of MCDR 2017.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	NA	NA
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	NA	NA
9d	Scrutiny of Annual return on afforestation	NA	NA
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA	NA
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NA	NA
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	NA	NA
9h	Scrutiny of Annual return on fixed assets	NA	NA
9k	Scrutiny of Annual return on mining machineries	NA	NA

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
MCDR17 Rule 11(1)	27-JUL-21		MCDR17 Rule 11(1)	27-JUL-21	08-AUG-21
Rule 26(2)	27-JUL-21	27-AUG-21	Rule 46	27-JUL-21	08-AUG-21
Rule 45(7)	27-JUL-21	27-AUG-21			
Rule 46	27-JUL-21				

Date :

(ROBERT SIMON C)

Indian Bureau of Mines