

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/BX-42

Mine code : 07MPR18024

- (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 : 15-SEP-21
- (v) Prev.inspection date : 22-APR-13

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TIKARIYA**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village : TIKARIYA
Taluka : KATNI
Post office : BADKHERA
Pin Code :
FAX No. : N. A.
E-mail : N. A.
Phone : N, A,
- (f) Police Station :
- (g) First opening date : 01-JAN-88
- (h) Weekly day of rest : THU
2. Address for : M/S SAVITRI MINERALS
correspondance : House No 241/1, Saket Nagar
Jabalpur (M.P.) 482002
3. (a) Lease Number : MPR0785
- (b) Lease area : 8.09
- (c) Period of lease : 20
- (d) Date of Expiry : 06-MAY-07
4. Mineral worked : LATERITE Associated
BAUXITE Main

5. Name and Address of the

Lessee : SAVITRI MINERALS
House No. 241/1, Saket
Nagar Jabalpur (M.P.)
482002 KATNI MADHYA
PRADESH
Phone:N. A.
FAX :N. A.

Owner : SAVITRI MINERALS
PATHAK WARD KATNI MADHYA
PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	19-MAY-03
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	12-OCT-07
	:	Mining Scheme rule 12 MCDR1988	20-JUL-15
	:	MP review under 17(1) MCR 2016	29-MAY-17

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 proposed	not done	
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		Level of exploration areawise was not proposed/available in the approved mining plan.	
1e	Balance reserve as on 01/04/20		0.778 Million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The deposit of Mahakaushal Group is found in the applied area overlain by rocks of Tertiary group comprising of Bauxite & Laterite. No exploration proposed for the year 2020-21.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	(2624670 to 2624860)N to (438940 to 439060)E	Not done	violation pointed out under rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in topsoil, overburden and mineral proposed	Separate benches in topsoil, overburden and mineral maintained	

2c	Stripping ratio or ore to OB ratio	1: 0.22	NA	
2d	Quantity of topsoil generation in m3	Not proposed	Not done	
2e	Quantity of overburden generation in m3	20910 m3 .	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development was proposed between the coordinates (2624670 to 2624860)N to (438940 to 439060)E but the same has not been carried out. The overall excavation is completely lagging and not as per proposals in the approved document. Hence, vio lation pointed out under rule 11(1) of MCDR 2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	91287 tonnes.	254 tonnes.	violation pointed out under rule 11(1) of MCDR 2017.
3c	Recovery of sailable/usable mineral from ROM production	not proposed	100% ROM is sold	
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.	Not proposed	Nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	not done	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No analysis or study proposed	No analysis or beneficiation study carried out.	
3j	Provision of drilling and blasting in mineral benches	proposed	As per proposal	
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		The overall excavation is completely lagging and not as per proposals in the approved document. The benches were not developed in accordance with the approved mining plan.	Hence, violation pointed out under rule 11(1) of MCDR 2017.
3m	Total area covered under excavation/pits	4.00 ha	3.40 ha	

3n	Ore to OB ratio for the pit/mine during the year.	1: 0.22	NA		No OB is generated against the proposal of 20910 m ³ . Hence, violation pointed out under rule 11(1) of MCDR 2017.
3o	Total area put in use under different heads at the end of year	4.52 ha	3.9 ha		
3p	Production of ROM mineral during the last five year period as applicable	2017-18 89053 2018-19 89082 2019-20 79840 2020-21 91287	2017-18 5241.5 2018-19 2187.3 2019-20 171 2020-21 254		
3q	General remarks of inspecting officers on method of mining etc.				Only 254 tonnes of ROM Bauxite is produced against the proposal of 91287 tonnes. The overall excavation is completely lagging and not as per proposals in the approved document. Hence, violation pointed out under rule 11(1) of MCDR 2017.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	proposed	not done as the overall excavation is completely lagging and not as per proposals in the approved document.	Violation pointed out under rule 11(1) of MCDR 2017.
4b	Location of topsoil, OB and mineral reject dumps	northwestern portion of the lease	northwestern portion of the lease	

4c	Number of dumps within lease area and outside of lease area	02	02	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL	within UPL	
4e	Number of active and 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.		50 m of garland drain.	
4i	Length of Retaining wall or garland drain all along dumps		50 m of garland drain.	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			The overall excavation is completely lagging and not as per proposals in the approved document. Also the mine was not working and suspended during inspection. Hence no active dump management observed.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	full extraction of mineral from mined out area proposed before starting backfilling	Area is fairly virgin to carry out backfilling.
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)	Topsoil generation not proposed for the year	Nil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Area is not excavated enough to carry out backfilling and reclamation yet.

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).		Yearly PMCP report has not been submitted for the year 2020-21	violation pointed out under rule 26(2) of MCDR 2017.
6b	Area available for rehabilitation (ha) .	NA	NA	
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	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Yearly PMCP report has not been submitted for the year 2020-21. Hence, 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	ROM mineral dispatch proposed.	ROM mineral dispatch carried out	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines .	Not proposed	Not done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation process at mines proposed.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	topsoil generation not proposed for the year	not done	
8b	Concurrent use or storage of topsoil	Not proposed	Not done	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Previously maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed	Not done as the excavation is meagre.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed	Not done as the excavation is meagre.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Yearly PMCP report has not been submitted for the year 2020-21	violation pointed out under rule 26(2) of MCDR 2017.
8h	Water sprinkling on roads to control airborne dust	proposed	Not done as the mines were suspended.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Mine was found non-working and suspended during the time of inspection. Hence, the aesthetics were mediocre.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR and AR submitted uptodate	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Not provided.	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.		Already exploited & abandoned by opencast (O/C) mining 0.400 Covered under current (O/C) Workings- 3.000 Used for waste disposal 0.300 Occupied by plant, buildings, residential, welfare buildings & roads 0.100 Other Purpose (Plantation) 0.100	
9d	Scrutiny of Annual return on afforestation		Number of trees planted during the year 60nos Survival rate in percentage 80.00	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Ex mine price: Rs.950/tonne.	
9h	Scrutiny of Annual return on fixed assets		Value of Fixed Assets (in Rs.) 981956	

9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 1.000 CUM 1 Non Electrical Opencast DUMPER 15.000 TONNE 2 Non Electrical Opencast
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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
MCDR17	Rule 11(1)	29-SEP-21			
MCDR17	Rule 26(2)	29-SEP-21			
	Rule 45(7)	29-SEP-21			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines