

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KATNI/LST-286

Mine code : 38MPR47129

- (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 : 13-SEP-21
- (v) Prev.inspection date : 17-SEP-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAJARWARA (4.28 HA)**
- (b) **Registration NO.** : **IBM/749/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village : RAJARWARA
Taluka : GARH
Post office : RAJARWARA
Pin Code :
FAX No. : 07622-404992
E-mail : ranjan_grover4@yahoo.com
Phone : 07622-404992
- (f) Police Station : VIJAYRAGHOGARH
- (g) First opening date : 01-JAN-10
- (h) Weekly day of rest : SUN
2. Address for : SMT. SUMITRA GROVER
correspondance : CIVIL LINES, KATNI (M.P.)
PIN - 483501
3. (a) Lease Number : MPR2538
- (b) Lease area : 4.28
- (c) Period of lease : 30
- (d) Date of Expiry : 10-JAN-40
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : SUMITRA GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone:N. A.
FAX :N. A.

Owner : SUMITRA GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 03-JUL-15
Plan/Scheme of Mining MP modif under 17(3) MCR 2016 24-OCT-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	3 PBH	Nil	violation pointed out under rule 11(1) of MCDR 2017.
1b	Exploration over lease area for geological axis 1 or 2	G1 -4.28 ha.	G1 -4.28 ha.	
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	Nil	Nil	
1e	Balance reserve as on 01/04/20		0.313 Million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			No boreholes drilled against the proposal of 03 core boreholes during the year 2020-21. Hence, violation pointed out under rule 11(1) of MCDR 2017.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	northern block	northern block	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	the quarry in northern block will be advanced towards north. The development in OB will be carried out in one bench of height 5.5m and width 6.0m to 10m. The development in mineral will be carried out from 3 benches. The height of the bench will be of height up to 6.0m each and width equal to 6.0m to 10.0m.	Verification of benches could not be carried out as the pit was waterlogged.	violation pointed out under rule 11(1) of MCDR 2017.
2c	Stripping ratio or ore to OB ratio	1: 0.10	1: 0.10	
2d	Quantity of topsoil generation in m3	6891	6530	
2e	Quantity of overburden generation in m3	5717	5800	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Verification of benches could not be carried out as the pit was waterlogged. Hence, violation pointed out under rule 11(1) of MCDR 2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	01	01
3b	Quantity of ROM mineral production proposed	57167 tonnes	56925 tonnes
3c	Recovery of sailable/usable mineral from ROM production	Not proposed	NA
3d	Quantity of mineral reject generation	NA	NA
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	NA	NA
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	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	proposed	the mine was flooded till date of inspection	violation pointed out under rule 11(1) of MCDR 2017.
3m	Total area covered under excavation/pits	2.6 ha	2.312 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.10	1: 0.10	
3o	Total area put in use under different heads at the end of year	3.32 ha	3.2 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 48510 2018-19 49935 2019-20 57155 2020-21 57167	2017-18 11630 2018-19 49905 2019-20 56700 2020-21 56925	
3q	General remarks of inspecting officers on method of mining etc.			Opencast semi mechanised method of mining was adopted in the lease area. All operation of mining such as development, winning of ore, loading and transport were carried out by utilising HEMM.

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 of topsoil, OB dumps proposed	Separate dumping of topsoil, OB dumps maintained	

4b	Location of topsoil, OB and mineral reject dumps	Three dumps in North East side, One in South and One dump SouthEast side of the lease.	Three dumps in North East side, One in South and One dump South-East side of the lease.	
4c	Number of dumps within lease area and outside of lease area	05 within lease	05 within lease	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	with in UPL	with in UPL	
4e	Number of active and alive dumps.	05 nos	05 nos	
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.	Garland drain proposed in the south west direction low silt area	Garland drain found in the south west direction low silt area	
4i	Length of Retaining wall or garland drain all along dumps		Garland drain of 100m(approx.) found	
4j	Number of settling ponds	one	one	
4k	Specific comments of inspecting officer on waste dump management			Temporary dumps simultaneously used for backfilling partly

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	full extraction of mineral from mined out area yet to be done	
5b	Area under backfilling of mined out area	0.055 ha	0.055 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	topsoil to be used for Plantation	topsoil used for Plantation	
5d	Total area fully reclaimed and rehabilitated	0.178 ha	0.178 Ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling done by the waste generated in mining operation

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).		PMCP report not submitted	violation pointed out under rule 26(2) of MCDR 2017.
6b	Area available for rehabilitation (ha) .	nil	nil	
6c	afforestation done (ha) .	nil	260 plants	
6e	Cumulative no .of plants	not specified in the approved plan year on year basis	NA	

6f	Any other method of rehabilitation	not proposed	nil
6g	Cost incurred on watch and care during the year	Not specified	Not given
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	7000 m3	7000 m3
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	5000 m3	5000 m3
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	nil	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	not proposed	not done
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	not proposed	not done
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	not proposed	260 nos of saplings planted

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	not proposed	0.055 ha	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantation	plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	carried out in year on year basis	
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 adopted	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	Not done	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	beneficiation process not proposed	beneficiation process not carried out	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	beneficiation process not proposed in the lease area
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil to be utilised for plantation	Topsoil utilised for plantation	
8b	Concurrent use or storage of topsoil	Topsoil to be utilised for plantation	Topsoil utilised for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden waste rock proposed	Separate dumps for overburden waste rock maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Overburden to be used in backfilling	Overburden partly used in backfilling	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased reclamation of lands by backfilling proposed	Phased reclamation of lands by backfilling adopted	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	not specified inthe approved mining plan	Number of trees planted during the year = 260 nos	

8g	Survival rate	80%	80%	
8h	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 in fairly good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	proposed	Monthly Return submitted upto date . Annual Return for the year 2020-21 was not submitted.	Violation pointed out under rule 45(7) of MCDR 2017.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual Return for the year 2020-21 was not submitted till date of inspection	NA	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Annual Return for the year 2020-21 was not submitted till date of inspection	NA	
9d	Scrutiny of Annual return on afforestation	Annual Return for the year 2020-21 was not submitted till date of inspection	NA	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Annual Return for the year 2020-21 was not submitted till date of inspection	NA	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual Return for the year 2020-21 was not submitted till date of inspection	NA
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Annual Return for the year 2020-21 was not submitted till date of inspection	NA
9h	Scrutiny of Annual return on fixed assets	Annual Return for the year 2020-21 was not submitted till date of inspection	NA
9k	Scrutiny of Annual return on mining machineries	Annual Return for the year 2020-21 was not submitted till date of inspection	NA

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)	17-SEP-21			
MCDR17	Rule 26(2)	17-SEP-21			
MCDR17	Rule 35(2)	17-SEP-21			
	Rule 45(7)	17-SEP-21			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines