

I/19327/2023

**MCDR inspection REPORT**

**Jabalpur regional office**

**Mine file No :** MP/KATNI/LST-30

**Mine code :** 38MPR47044

- (i) Name of the Inspecting : **C004** ) **ROBERT SIMON C**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Manoj Kumar Roy, Mines Manager  
Official with  
Designation
- (iv) Date of Inspection : 29-JUN-23
- (v) Prev.inspection date : 15-NOV-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RAJARWARA (5.202 H)**
- (b) **Registration NO.** :
- (c) Category : A
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : KATNI  
Village : RAJARWARA  
Taluka : Vijayraghogarh  
Post office : Vijayraghogarh  
Pin Code : 483501  
FAX No. : N. A.  
E-mail : ranjan\_grover4@yahoo.com  
Phone : 07622-405474
- (f) Police Station :
- (g) First opening date : 19.12.1975
- (h) Weekly day of rest :
2. Address for : SMT. SUMITRA GROVER  
correspondance CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR1550  
(b) Lease area : 5.22  
(c) Period of lease : 50  
(d) Date of Expiry : 18-DEC-25
4. Mineral worked : DOLOMITE Associated  
LIMESTONE Main

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## 5. Name and Address of the

Lessee : SUMITRA GROVER  
CIVIL LINES KATNI MADHYA  
PRADESH  
Phone:62000  
82537  
FAX :N. A.

Owner :  
SUMITRA GROVER  
CIVIL LINES KATNI MADHYA  
PRADESH  
Phone: 07622  
- 405474.  
FAX : N. A.

6. Date of approval of Mining Plan/Scheme of Mining	: Mining Scheme rule 12 MCDR1988	31-AUG-09
	MP modif under MCR 1960	11-AUG-15
	MP Review under MCR 1960	21-DEC-20

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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	Lease area explored upto G1 level	Lease area explored upto G1 level	
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	Not specified	111-487359 T	
1f	General remarks of inspecting officers on geology, exploration etc			The Lease area already explored upto G1 level.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 2653966 - N 2654026 E 449834 - E 449974	N 2653966 - N 2654026 E 449834 - E 449974	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and minerals proposed.	Separate benches in OB and minerals maintained	
2c	Stripping ratio or ore to OB ratio	1:0.32	1:0.33	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	23303	23350	

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The development in OB were being carried out in one bench of height 5.0m, RL 375m and width 5.0m towards UPL to 10m towards working face. The development in mineral were being carried out from 3 benches. The height of the bench is of height up to 6.0m each and width equal to 6.0m to 10.0m. The RL of the benches will be 369m, 363m and 357m respectively.
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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	71419 MT	71270 MT	
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	

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3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No analysis or beneficiation study proposed	No analysis or beneficiation study carried out for subgrade mineral and reject
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting in mineral benches proposed	Drilling & blasting in mineral benches carried out
3k	Provision of mining machineries in mineral benches	Proposed	Dumper - 10 Tonnes - 04 numbers Front end Loader - 1.20 Cum -01 numbers Water Tanker - 5000 ltrs - 01 numbers Air Compressor - 210 Cum/Mn - 01 Numbers
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Separate benches in OB and minerals maintained.
3m	Total area covered under excavation/pits	3.15 ha	3.1 approx.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.32	1:0.33
3o	Total area put in use under different heads at the end of year	4.9 ha	4.67 ha
3p	Production of ROM mineral during the last five year period as applicable	2018-19 51083 2019-20 54075 2020-21 45549 2021-22 51975 2022-23 71419	2018-19 NIL 2019-20 NIL 2020-21 NIL 2021-22 51630 2022-23 71270
3q	General remarks of inspecting officers on method of mining etc.		Opencast other than fully mechanised method of mining were being carried out in the lease area.

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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)	Separate dumps of OB & Mineral proposed.	Separate dumps of OB & Mineral maintained	
4b	Location of topsoil, OB and mineral reject dumps	Waste dump - 1. N 2653943 - N2654006, E 449671 - E 449784 2. N 2653988 - N 2654066, E 449663-E 449805	Waste dump - N 2653943 - 449671 - E 449784 N 2653988 - N 2654066, E 449663-E 449805	
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.	02	02	
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.	It is proposed to maintain a fencing of 1020m & garland drain of 200m for the year 2022-23.	Not done	Violation pointed out under Rule 11(1) of MCDR 2017.
4i	Length of Retaining wall or garland drain all along dumps	It is proposed to maintain a fencing of 1020m & garland drain of 200m for the year 2022-23.	Not done	Violation pointed out under Rule 11(1) of MCDR 2017.
4j	Number of settling ponds	Nil	Nil	

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4k	Specific comments of inspecting officer on waste dump management	The entire lease area is mineralized and hence temporary dumping has been proposed and were being carried out. Dumping as well as backfilling has been carried out.
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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.	full extraction of mineral from mined out area proposed before starting backfilling.	full extraction of mineral from mined out area adopted before starting backfilling.	
5b	Area under backfilling of mined out area	0.20 ha	Backfilling was done within 7.5m barrier zone.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	To be used for plantation in the backfilled area.	Used for plantation in the backfilled area.	
5d	Total area fully reclaimed and rehabilitated	Not specified	0.2 ha	

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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) .	0.2 ha	0.2 ha	
6c	afforestation done (ha).	0.2 ha	0.2 ha	

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6d	No. of saplings planted during the year	Not specified	300 nos
6e	Cumulative no .of plants	Not specified	Not provided
6f	Any other method of rehabilitation	NA	NA
6g	Cost incurred on watch and care during the year	NA	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	0.2 HA	0.2 HA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.2 HA	0.2 HA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	0.2 HA	0.2 HA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA



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6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Monitoring is being done periodically	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance & progressive closer operations is being carried out as per approved mining plan proposals.

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**Mineral Conservation:**

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch after grade-wise mineral sorting proposed	ROM mineral dispatch after grade-wise mineral sorting done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Not specified	Cement grade	
7d	Any beneficiation process at mines .	Not Proposed	Not done	

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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No beneficiation process at mines carried out.
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	Topsoil not generated for the year.	
8b	Concurrent use or storage of topsoil	Not proposed	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden proposed	Separate dumps for overburden maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	backfilling proposed	backfilling done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased restoration, reclamation and rehabilitation of lands affected by mining operations proposed	Phased restoration, reclamation and rehabilitation adopted.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	within lease area - 300 tree planted as per annual return.	
8g	Survival rate	About 80%	About 80%	

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8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed	Water sprinkling on roads carried out.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around mine area needs improvement.

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Submitted online	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mining Engineer in charge: Manoj Kumar Roy Geologist in charge : Arvind Kumar Tamrakar	
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): Under forest Outside forest Total (i) Already exploited and abandoned by opencast (O-C) mining 0.000 0.000 0.000 (ii) Covered under current (O-C) Workings 0.000 3.150 3.150 (iii) Reclaimed-rehabilitated 0.000 0.200 0.200 (iv) Used for waste disposal 0.000 1.070 1.070 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.100 0.100 (vi) Used for any other purpose (specify)Green Belt 0.000 0.150 0.	

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9d	Scrutiny of Annual return on afforestation	Given	within lease area - 300 saplings planted.
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	Given	Closing Stock - 67 Tones (Cement grade)
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex mine price - Rs 404.09/- Cement grade Production cost Rs 266/-
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets (Rs 1040400)
9k	Scrutiny of Annual return on mining machineries	Given	type of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Nonelectrical (specify) Used in open cast underground (specify) AIR COMPRESSOR 210.000 CUM/MN 1 Non Electrical Open cast DUMPER 10.000 TONNE 4 Non Electrical Open cast WATER TANKER 5000.000 LITRE 1 Non Electrical Open cast FRONT END LOADER 120.000 CUM 1 Non Electrical Open cast

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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)	04-AUG-23				
Rule 31(4)	04-AUG-23				
Rule 33	04-AUG-23				
Rule 45(7)	04-AUG-23				

Date :

(ROBERT SIMON C)

Indian Bureau of Mines