

I/2532/2023

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KATNI/LST-30

Mine code : 38MPR47044

- (i) Name of the Inspecting : G006) ABHISHEK RANJAN GAUTAM
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Manoj Kumar Roy, Manager
Official with
Designation
- (iv) Date of Inspection : 15-NOV-22
- (v) Prev.inspection date : 15-FEB-11

PART-I : GENERAL INFORMATION

1. (a) Mine Name : RAJARWARA (5.202 H)
- (b) Registration NO. :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village :
Taluka :
Post office :
Pin Code :
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date :
- (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 : 5.2
- (c) Period of lease : 50
- (d) Date of Expiry : 18-DEC-25
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

I/2532/2023

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 31-AUG-09
Plan/Scheme of Mining MP modif under MCR 1960 11-AUG-15

I/2532/2023

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	02 nos core BH in the year - 2020-21 02 nos core BH in the year - 2021-22	Exploration was not done against the proposal of 02 nos. of core bore holes in the year 2020-21 & 02 nos. of core bore holes in the year 2021-2202	Violation pointed out under rule 11(1).
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	Not Proposed	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Lease area explored upto G1 level	Nil	
1e	Balance reserve as on 01/04/20		Reserve - 610249 Tones Resources - 313917 Tones	
1f	General remarks of inspecting officers on geology, exploration etc			Lease area explored upto G1 level, However additional exploration was proposed but not done against the proposal of 02 nos. of core bore holes in the year 2020-21 & 02 nos. of core bore holes in the year 2021-2202. Violation pointed out for same.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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I/2532/2023

2a	Location of development w.r.t.lease area	Working is proposed in quarry 2.The faces advancement is proposed towards North and in depth near BP-10 to BP 9/1.	Working is carried out in quarry 2. The faces advancement is done towards north and in depth.
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	1:1.08	1:1.08
2d	Quantity of topsoil generation in m3	It was proposed to remove 3050 M3 of Top Soil in the year 2021-22	2980 cubic meter
2e	Quantity of overburden generation in m3	It was proposed to remove 22100 M3 of Over Burden in the year 2021-22	19000 cubic meter
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Working is carried out in quarry 2. The faces advancement is done towards north and in depth.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	
3b	Quantity of ROM mineral production proposed	It was proposed to produce 51975 metric tons of Limestone in the year 2021-22	It was proposed to produce 51620 metric tons of Limestone in the year 2021-22	
3c	Recovery of sailable/usable mineral from ROM production	Entire ROM generated for sale proposed	Entire ROM generated is sold	

I/2532/2023

3d	Quantity of mineral reject generation	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable
3f	Quantity of sub grade mineral generation.	Nil	Nil
3g	Grade of sub grade mineral generation	Not applicable	Not applicable
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 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 Proposed	Separate benches in OB and minerals maintained.
3m	Total area covered under excavation/pits	Under excavation pit - 2.90 ha	Under excavation pit - 2.30 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:1.08	1:1.08

I/2532/2023

3o	Total area put in use under different heads at the end of year	Covered under corrent pit - 2.9 ha Waste disposal - 0.210 ha Other purpose - 0.1 ha	Covered under corrent pit - 2.30 ha Waste disposal - 1.070 ha Other purpose - 0.10 ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 44300 2018-19 - 51000 2019-20 - 54000 2020-21 - 45549 2021-22 - 51975	2017-18 - NIL 2018-19 - NIL 2019-20 - NIL 2020-21 - NIL 2021-22 - 51620	
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.

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 - N 2653943 - N2654006, E 449671 - E 449784 In pit dump - N 2653988 - N 2654066, E 449663-E 449805 Soil Dump - N 2654028 - N 2654081, E 449874 - E 449937	Waste dump - N 2653943 - N2654006, E 449671 - E 449784 In pit dump - N 2653988 - N 2654066, E 449663-E 449805 Soil Dump - N 2654028 - N 2654081, E 449874 - E 449937	02 OB & 01 soil dump situated in the lease area.
4c	Number of dumps within lease area and outside of lease area	03 Dump, (02 Ob, 01 Soil)	03 Dump, (02 Ob, 01 Soil)	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL	within UPL	

I/2532/2023

4e	Number of active and alive dumps.	03	03	Ob/waste used in backfilling of the mined out area.
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.	Not proposed	Not applicable	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Not applicable	
4j	Number of settling ponds	Not proposed	Not applicable	
4k	Specific comments of inspecting officer on waste dump management			The whole ML area is mineralized and hence temporary dumping has been proposed and were being carried out. Dumping as well as backfilling has been carried out.

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	As per proposal, Backfilling was not done within 7.5m barrier zone near Pillar no 14 of the lease area.	Violation pointed out for same.
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.	

1/2532/2023

5d	Total area fully reclaimed and rehabilitated	Not proposed	Not applicable.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The OB/mine waste is being backfilled in 7.5m barrier zone and mined out area towards South near pillar no 14.

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	Not applicable	
6c	afforestation done (ha).	Not proposed	Not applicable	
6d	No. of saplings planted during the year	Not proposed	300 numbers	
6e	Cumulative no .of plants		Not provided	
6f	Any other method of rehabilitation	Not proposed	Not applicable	
6g	Cost incurred on watch and care during the year	Not mentioned	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.20 ha	Not done	Violation pointed out
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Not applicable	

I/2532/2023

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed	Not applicable	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not applicable	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Not applicable	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not applicable	Not applicable	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable	Not applicable	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable	Not applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Carried out as per proposal	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Yearly report of PMCP submitted under rule 26(2). as per proposed backfilling not done, Violation pointed out.

 Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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I/2532/2023

7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch & Grade wise sorting proposed	ROM mineral dispatch & Grade wise sorting carried out	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	
7c	Different grade of mineral sorted out at mines.	Cement & SMS grade	Cement & SMS grade	
7d	Any beneficiation process at mines	Not Proposed	Not applicable	
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
8a	Separate removal and utilization of topsoil (Rule 32)	topsoil to be utilised for plantation purpose	Top soil used for platation in backfilled area.	
8b	Concurrent use or storage of topsoil	topsoil to be utilised for plantation purpose.	topsoil utilised for plantation purposes.	
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	as proposed, backfilling not done.	

I/2532/2023

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%	
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 is fairly good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. submitted upto-Oct-2022 A.R. submitted upto-2021-22	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mining Engineer - Shri Manoj Kumar Geologist - Shri Arvind Kumar Tamrakar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Covered under corrent pit - 2.30 ha Waste disposal - 1.070 ha Other purpose - 0.10 ha	
9d	Scrutiny of Annual return on afforestation		within lease area - 300 tree planted. As per return	

I/2532/2023

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock - Nil Tonnes Production - 51620 Tonnes Dispatch - 52145 Tonnes Closing Stock - 1.460 Tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price - Rs 303.68/- SMS grade Rs 315/- cement grade Production cost Rs 298.85/-
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets is mentioned as nil.
9k	Scrutiny of Annual return on mining machineries	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

I/2532/2023

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)	21-DEC-22			
MCDR17	Rule 27(1)	21-DEC-22			
MCDR17	Rule 31(1)	21-DEC-22			
MCDR17	Rule 34(1)	21-DEC-22			

Date :**(ABHISHEK RANJAN GAUTAM)**

Indian Bureau of Mines