

MCDR-MiFLOLST/26/2023-JBP-IBM_RO_JBP
INDIAN BUREAU OF MINES

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/16667/2023

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-83

Mine code : 38MPR18041

- (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 Head)
Official with
Designation
- (iv) Date of Inspection : 30-JUN-23
- (v) Prev.inspection date : 13-SEP-21

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KACHHAGAWAN (8.30HECT)
- (b) Registration NO. :
- (c) Category : A
- (d) Type of Working : Opencast
- (e) Postal address
- State : MADHYA PRADESH
- District : KATNI
- Village : KACHHGAWAN
- Taluka : VIJRAGHAVGARH
- Post office : DIWAN SIDING
- Pin Code : 483880
- FAX No. : 07674-232580
- E-mail : snsahr@sancharnet.in
- Phone : 07674- 232042, 232089
- (f) Police Station :
- (g) First opening date : 01-JAN-83
- (h) Weekly day of rest : WED
2. Address for : SHRI MADAN LAL GROVER
correspondance CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR0205
- (b) Lease area : 8.3
- (c) Period of lease : 50
- (d) Date of Expiry : 03-MAY-32
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : MADAN LAL GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone: 97524888888
FAX :N. A.

Owner : MADAN LAL GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone: 97524888888
FAX : N. A.

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	11-JUL-96
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	20-OCT-04
		Mining Scheme rule 12 MCDR1988	31-AUG-09
		Mining Scheme rule 12 MCDR1988	31-MAY-12
		MP review under 17(1) MCR 2016	31-MAR-17

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There is no exploration proposal during the year	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Not proposed	Nil	
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	Not proposed	G-1-4.9 ha already explored.	
1e	Balance reserve as on 01/04/20	Not specified	G-2-1,347,415 as per AR.	
1f	General remarks of inspecting officers on geology, exploration etc			The lease area from a part of the Semri Group and comprises rocks belonging to Rohtas formation of lower Vindhyan system consists limestone which is grey, light gray, fine to Medium Grained and Slightly fractured. limestone is soft and stratified. The limestone is bedded with intercalations of argillaceous material and inter bedded with shale. The general strike of limestone is N65°E- S65°W and the amount of dip is about 5° to 45° with average dip of 25° towards North westerly.

Development :

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Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N2652575 to N2652680 and E 447200 to E 447330	During inspection it was observed that the lateral development of the benches towards the northern direction was found to be lagging behind the approved proposals.	Violation pointed out under rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Overburden and Mineral benches is to be maintained separately	Overburden and Mineral benches are found maintained separately	
2c	Stripping ratio or ore to OB ratio	1:0.66	1:0.49	
2d	Quantity of topsoil generation in m3	19586 CUM	19600 CUM	
2e	Quantity of overburden generation in m3	33253 CUM	24769 CUM	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			Only 24769 m3 of OB/waste generated against the proposal of 33253 m3 of OB /waste generation for the year 2022-23. It was proposed to carryout development in southern quarry lying between the grid coordinates N2652575 to N2652680 and E 447200 to E 447330 but during inspection it was observed that the lateral development of the benches towards the northern direction was found to be lagging behind the approved proposals.Violation pointed out under rule 11(1) of MCDR 2017.

Exploitation:

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Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	49993 MT	49950 MT	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No generation of Mineral reject is anticipated	No Mineral reject generated	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	No generation of Sub grade ore is anticipated	No sub grade generated	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed for segregation of mineral	Mechanised method adopted for segregation of mineral	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal of carrying out any beneficiation study	No beneficiation study carried out	
3j	Provision of drilling and blasting in mineral benches	Drilling & Blasting in mineral bench proposed	Drilling & Blasting is being carried out in mineral bench as proposed	
3k	Provision of mining machineries in mineral benches	Yes	As per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes boom length of 1.2 cum capacity excavator is suitable for bench height of 6 meters.	Yes suitable	

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3m	Total area covered under excavation/pits	4.59 Ha	4.16 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.66	1:0.49	
3o	Total area put in use under different heads at the end of year	7.58 ha	7.43 ha	
3p	Production of ROM mineral during the last five year period as applicable	2018-19 50400 2019-20 50040 2020-21 50040 2021-22 50600 2022-23 49993	2018-19 44860 2019-20 49930 2020-21 49757.160 2021-22 49930 2022-23 49950	
3q	General remarks of inspecting officers on method of mining etc.			Fully mechanised method of mining deploying HEMM is 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 dumping of topsoil, OB proposed	Only waste/ OB dump is maintained as there is no proposal of mineral reject generation. Top soil generated is being utilised for plantation.	
4b	Location of topsoil, OB and mineral reject dumps	OB/waste generated is proposed to be stacked temporarily on the existing dumps on northern side of lease area	OB/waste generated is stacked on the existing dumps on northern side of lease area	
4c	Number of dumps within lease area and outside of lease area	One dump within lease area	One dump within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within in UPL	Within in UPL	
4e	Number of active and alive dumps.	One active dump	One active dump	

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4f	Number of dead dumps.	No dead dumps	Nil	
4g	Number of dumps established.	No proposal to establish dumps	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposal of constructing retain wall during the year	No retaining wall constructed	
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Nil	
4j	Number of settling ponds	No proposal of creating settling pond during the year	Nil	
4k	Specific comments of inspecting officer on waste dump management			Waste generated is being backfilled. Existing waste dump is of temporary in nature and is proposed to rehandle for backfilling.

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.	Entire mineral to be excavated before backfilling is proposed	Entire mineral to be excavated before backfilling is adopted	
5b	Area under backfilling of mined out area	0.2 ha	Not reported in the returns	Violation pointed out
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For plantation	For plantation in the backfilled area	
5d	Total area fully reclaimed and rehabilitated	0.8 ha	Not reported in the PMCP report	Violation pointed out under rule 26(2) of MCDR 2017.

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling is being carried out in the mined out area. In the submitted PMCP report, the total mined out area already reclaimed by means of backfilling (in hect) at the end of financial year is incorrectly furnished as not as per actual field condition as observed during inspection. Hence, violation pointed out under rule 26(2) of MCDR 2017.
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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	In the submitted PMCP report, the total mined out area already reclaimed by means of backfilling (in hect) at the end of financial year is incorrectly furnished as not as per actual field condition as observed during inspection.	Violation pointed out under rule 26(2) of MCDR 2017.
6b	Area available for rehabilitation (ha) .	0.2 ha	0.2 ha	
6c	afforestation done (ha) .	Not specified	0.05 ha	
6d	No. of saplings planted during the year	100	100	
6e	Cumulative no .of plants	Not proposed	Not available	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	Nil	Not available	

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not specified	Not provided	Violation pointed out under rule 26(2) of MCDR 2017.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	NA	NA	
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	
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	

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6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of Air, water, Noise to be carried out	Quarterly monitoring of Air, water, Noise is being carried out regularly.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			In the submitted PMCP report, the total mined out area already reclaimed by means of backfilling (in hect) at the end of financial year is incorrectly furnished as not as per actual field condition as observed during inspection. 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 ore produced shall be dispatched	Graded ore of 49950 Tonnes dispatched during the year.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised method to be adopted for sorting of ore	As per proposal	
7c	Different grade of mineral sorted out at mines.	Cement Grade	Cement Grade	
7d	Any beneficiation process at mines .	No such proposal of beneficiation study is made during the year	No study carried out during the year	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation study is being carried out in the lease.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil is proposed during the year	Separate removal and utilization of topsoil is done	
8b	Concurrent use or storage of topsoil	Proposal is to utilise top soil generated for plantation purposes	Top soil generated is being utilised for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only waste dumps is to be maintained	Only waste dumps is maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste generated during the year is proposed to be utilised for backfilling	Waste generated during the year has been utilised for backfilling	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling is proposed	Backfilling is done in mined out area	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100 No. of sapplings proposed to be planted during the year	100 No. of sapplings planted during the year	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	It was proposed to suppress the dust with water sprinkling on Haul road, working area	Water sprinkling on Haul road, working area is being carried out regularly to suppress the dust	

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8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation is being carried out to improve the aesthetic beauty of in and around lese area.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual return shall be submitted on time as per statute	Monthly and Annual return is being submitted on time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Proposed	Mining Engineer in charge: Manoj Kumar Geologist in charge : Arvind Kumar Tamrakar	

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	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 4.160 4.160 (iii) Reclaimed-rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 0.200 0.200 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.550 0.550 (vi) Used for any other purpose (specify) Green Belt 0.000 0.050 0.0	Part -I, S.No.12 , Lease area (surface area) utilisation as at the end of year (hectares): The details wrt the area used for Reclaimed-rehabilitated & waste disposal is is incorrectly furnished.	Violation pointed out under rule 45(7) of MCDR 2017.
9d	Scrutiny of Annual return on afforestation	proposed	Number of trees planted during the year=100	
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	Opening stock(cement grade)-20.345 Tonnes	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine Price and Cost of production : Rs. 410, Cost of production : Rs. 282.40	As reported by lessee
9h	Scrutiny of Annual return on fixed assets	Rs. 1671000	As reported by lessee
9k	Scrutiny of Annual return on mining machineries	Given	<p>Type of Machinery: Give the following information for the types of machinery in use such as hoist, fans, drills, loaders, excavators, dumpers, haulages, conveyors, pumps, etc.</p> <p>Type of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Nonelectrical (specify) Used in opencast underground (specify) FRONT END LOADER 1.200 CUM 1 Non Electrical Opencast DUMPER 16.000 TONNE 1 Non Electrical Opencast DUMPER 10.000 TONNE 1 Non Electrical Opencast WATER TA</p>

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Details of violations observed during current inspection and compliance position of violation pointed out					
Violation observed			Showcause position		
Rule NO	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
11 (1)	06-SEP-23				
26 (2)	06-SEP-23				
31 (4)	06-SEP-23				
33	06-SEP-23				
45 (7)	06-SEP-23				

Date :

(ROBERT SIMON C)

Indian Bureau of Mines