

I/36535/2024

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No :**Mine code : 38MPR47128**

- (i) Name of the Inspecting Officer and ID No. : **AKASH ARUN MITTARWAR**
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine Official with Designation : Shri Ram Bihari Bagri (Mining Engineer) & Shri Arvind Tamrakar (Geologist)
- (iv) Date of Inspection : 25-MAY-24
- (v) Prev.inspection date : 15-SEP-23

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SALAIYA PAHARHAI (4.12 Hect.)**
- (b) **Registration NO.** : **IBM/744/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : SALAIYA PAHARHAI
Taluka : VIJAYRAGHAVGARH
Post office : SALAIYA PAHARHAI
Pin Code : 483880
FAX No. : N.A.
E-mail : ranjan_grover4@yahoo.com
Phone : 07622-405474
- (f) Police Station : V.GARH
- (g) First opening date : 22-JUL-09
- (h) Weekly day of rest : SUN
2. Address for correspondence : Shri Madan Lal Grover (Lease Holder),
Civil Line, P.O. Katni, District - Katni (M.P.)-
483501
3. (a) Lease Number : N.A.
- (b) Lease area : 4.12
- (c) Period of lease : 50 Years (22-JUL-09 TO 21-JUL-59)
- (d) Date of Expiry : 21-JUL-59
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : Shri Madan Lal Grover (Lease Holder),
Civil Line, P.O. Katni, District - Katni (M.P.)- 483501

Owner : Shri Madan Lal Grover (Lease Holder),
Civil Line, P.O. Katni, District - Katni (M.P.)- 483501

6. Date of approval of Mining : MP under rule 22 of MCR1960 25-MAR-09
Plan/Scheme of Mining Scheme of Mining plan under 29-SEP-14
rule 12(3) MCDR1988
Modification of Mining under 18-JUN-19
Rule 17(3) Of MCR2016
Review of Mining under rule 30-APR-24
17(2) Of MCR2016

Exploration

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S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	No proposals	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	No exploration proposals during year 2023-24 for G1/G2 levels	Potential Mineralized area explored up to G1 level.	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not specified.	Not specified.	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Nil	Nil	
1e	Balance reserves as on 01.04.2024	Nil	Balance reserve as on 01/04/2024 – 111 - 164548.61 & 122 – 681150 tonnes	
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire lease area explored up to G1 Level of exploration. Light colored clayey limestone inter beds are present, generally near the upper contact. Lime stones occur as intercalated with shale. Thickness of limestone varies from few cm to 1m. The thickness and nature of the soil depends on climatic and morphological exposure intensity of ground water circulation & nature of the source rock. No backlog of exploration.		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Development was proposed towards North of the quarry 1 & also towards East & South of the quarry 2.	As per proposal	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate bench for top soil, Over burden & mineral proposed	Yes, Separate bench for top soil, Over burden & Mineral were found.	
2c	Stripping ratio or ore to OB ratio	1:1.09	1:1.1	
2d	Quantity of topsoil generation in m ³	11448 cu.m	11510 cu.m	
2e	Quantity of overburden generation in m ³	10410 cu.m	10485 cu.m	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development was carried towards North of the quarry 1 & also towards East & South of the quarry 2. Permission under rule 111(1) of MCR, 1961 expired on 03/05/2022. Violation in this regard have been pointed out through violation of rule11(1).		

Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	Two pit	Two pit	
3b	Quantity of ROM mineral production proposed (2023-24)	49986 tonnes	49932 tonnes	
3c	Recovery of Salable/usable mineral from ROM production	80 %	80 %	
3d	Quantity of mineral reject generation	Not proposed	Not applicable	
3e	Grade of mineral reject generation and threshold value declared	Not proposed	Not applicable	
3f	Quantity of sub-grade mineral generation	Not proposed	Not applicable	
3g	Grade of sub-grade mineral generation	Not proposed	Not applicable	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Not applicable	
3j	Provision of drilling & blasting in mineral benches	Proposed, spacing – 2.40 to 2.50 m, Burden – 2.0 to 2.20 m, depth of hole – 2.80 to 2.90 m, dia of hole – 80 mm, charge per hole – 5-10 kg.	Drilling & blasting carried out as proposed.	
3k	Provision of mining machineries in mineral benches	proposed	HEMM is being used in mineral benches for excavation and transportation. Back hoe – 1 – 1.2 cu.m Air Compressor - 1 – 210 cu.m./min. Water Tanker – 1 – 5000 liter Dumper – 2 – 16 tonne Dumper – 1 – 10 tonne	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed	Height of o/b & mineral benches is suitable for method of mining as proposed.	
3m	Total area covered under excavation /pits	2.27 hect.	2.10 hect.	
3n	Ore to OB ratio for the pit/mine during the year	1:1.09	1:1.1	

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3o	Total area put in use under different heads at the end of year	3.27 hect.		2.56 hect.	
3p	Production of ROM mineral during	2019-20	49947 t	49900 t	
	last five-years period, as Applicable	2020-21	49990 t	49856 t	
		2021-22	49318 t	47370 t	
		2022-23	49972 t	49950 t	
		2023-24	49986 t	49932 t	
3q	General remarks of inspecting officer on method of mining etc	Category A mines having adopted mechanized method of mining.			

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping of top soil and OB were proposed.	Separate dumping of top soil and OB were observed.	
4b	Location of topsoil, OB & mineral reject dumps	One soil dump in south block; one OB dump in south of quarry 2 & one OB dump in North of quarry 1.	One soil dump in south block; one OB dump in south of quarry 2 & one OB dump in North of quarry 1 were observed.	
4c	Number of Dumps within lease area and outside lease area	3 dumps within the lease area	3 dumps within the lease area	Existing dumps.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	within ultimate pit limit	within ultimate pit limit	
4e	Number of Active & Alive dumps	03 dumps	03 dumps	
4f	Number of dead dumps	Not proposed	Not applicable	
4g	Number of dumps established	Not proposed	Not applicable	
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 dump	Not proposed	Not applicable	
4j	Number of settling ponds	Not proposed	Not applicable	
4k	Specific comments of inspecting officer on waste dump management	One dump of top soil & 2 OB dump were observed. Top soil generated during the year utilized for topping on backfilled area & OB generated during the year utilized for backfilling.		

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Full extraction of mineral from mined out area is proposed	Full extraction of mineral under progress up to the UPD	

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5b	Area under backfilling of mined out area	0.45 hectare cum.	0.45 hectare cum.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Proposed for topping on backfilled area for afforestation.	As per proposal	
5d	Total area fully reclaimed & rehabilitated	0.13 hectare mined out area proposed for reclamation during the year and 0.05 hectare area proposed for rehabilitation by plantation during the year.	As per proposal	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Top soil generated during the year utilized for topping on backfilled area & OB generated during the year utilized for backfilling.		

Progressive Mine Closer Plan

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly- Rule 23E (2). Details should be given in the format as given in Annexure-20	Proposed	Submitted	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	Not proposed	Not applicable	
	ii) Afforestation done (ha.)	Not Proposed	Not applicable	
	iii) No. of saplings planted during the year	Not Proposed	Not applicable	
	iv) Cumulative no. of plants	Not specified	Not applicable	
	v) Any other specific method of rehabilitation	Not proposed	Not applicable	
	vi) Cost incurred on watch & care during the year	Not Specified.	Not applicable	
6c	Compliance on reclamation and rehabilitation by backfilling			
	i) Voids available for backfilling (L*B*D)	0.13 hect.	0.13 hect.	
	ii) Void filled by waste/tailings	0.13 hect.	0.13 hect.	
	iii) Afforestation on the backfilling	0.05 hect.	0.05 hect.	
	iv) Rehabilitation by making water reservoir	Not Proposed	Not applicable	
	v) Any other specific means	Not Proposed	Not Applicable	
6d	Compliance of Rehabilitation of waste land within lease			
	i) Afforestation	Not Proposed	Not Applicable	
	ii) Area rehabilitation			
	iii) Method of rehabilitation			

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6e	Compliance of Environment monitoring (core zone & Buffer zone)	Proposed	Within prescribed limit.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Pit is not reached up to ultimate pit depth resulting PMCP activities like backfilling of mined out area, stablisation of benches etc. work are yet to be started.		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or gradewise sorting within lease area	ROM mineral dispatch to steel and cement industries	As per proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sort out at mine	Cement grade	Cement grade	
7d	Any beneficiation process at mines	Not Proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The limestone dispatched to cement and steel industries directly. No beneficiation process at mines carried out.		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Proposed	As per proposal	
8b	Concurrent use or storage of topsoil	Top soil is proposed for protective bund & spreading for plantation purpose.	Topsoil utilized for plantation & for protective bund.	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Separate dumping of OB is proposed.	Separate dumping of OB is observed.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed for dumping	Separate dumping of OB is observed.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	There is no specific Approved proposal for Reclamation and Rehabilitation of pit and dumps	There is no effective reclamation and rehabilitation work	

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8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation proposed on barrier zone from BP no. 10 to 11 & 11 to 1.	As per proposal	
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 with the use of water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Plantation was done in the proposed location. Needs improvements for aesthetic beauty in and around mine area.		

Compliance of Rule 45:-

S.N.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted both Monthly and Annual Return	Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist	Shri Ram Bihari Bagri (Mining Engineer) & Shri Arvind Tamrakar (Geologist)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Covered under current (O-C) Workings – 2.1 hect. Reclaimed-rehabilitated – 0.13 hect. green belt – 0.2 hect. PMCP – 0.13 hect.	
9d	Scrutiny of Annual return on afforestation	Yes	100 trees planted during the year	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	ROM closing stock as on 01/04/2024 - 73.480 tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex. Mine price - 397.52 and production cost – 282.79	
9h	Scrutiny of Annual return on fixed assets	Yes	Value of Fixed Assets* (₹ 1577763)	
9k	Scrutiny of Annual return on mining machineries	Yes	Back hoe – 1 – 1.2 cu.m Air Compressor - 1 – 210 cu.m./min. Water Tanker – 1 – 5000 liter	

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			Dumper – 2 – 16 tonne Dumper – 1 – 10 tonne	
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Details of Violations observed during current inspection and compliance position of violation pointed out:-

Rule – 11(1) of MCDR 2017 dated – 02/07/2024

Rule – 31(4) of MCDR 2017 dated – 02/07/2024

Rule – 33 of MCDR 2017 dated – 02/07/2024

Name: Akash Arun Mittarwar

Designation: Assistant Mining Engineer

