

INDIAN BUREAU OF MINES

MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection Report

Jabalpur regional office

S.N.	Particulars	Details
1	Name of the Mine	Badari Limestone & Dolomite Mine
	Date of Inspection:	29-06-2024
	Name of Inspecting Officer	Akash Arun Mittarwar, Assistant Mining Engineer
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	10.246 Hect.
3	Mine code	38MPR47040
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/550/2011
5	Last Inspection Details	26-08-2023 by Shri Robert Simon C, ACOM
6	Mine official present during the inspection	Shri Brijlal Prasad Mishra (Mining Engineer) & Shri Ajay Pandey (Geologists)
7	Name of the Lease, Address, Phone, email and fax number	Shri Ashok Kumar Dubey (Prop.); M/s Gorelal Dubey. Nadi Par, P.O. & District – Katni (M.P.) – 483501 Phone -9425464736 E-mail: - dubey.84@gmail.com
8	Village	Badari
9	Taluka/Mandal	Vijayraghogarh
10	District	Katni
11	Pin code	483501
12	State	Madhya Pradesh
13	Post Office	Vijayraghogarh
14	Nearest Police Station	Vijayraghogarh
15	Nearest Railway Station	Katni
16	Date of Grant of Mining Lease	19/01/1981
17	Date of Execution	24/11/1992
18	Lease period	24/11/1992 to 23/11/2042
19	Date of opening of Mine	30/11/1992
20	Date of First Renewal, if applicable and its period & expiry	24/11/1992 to 23/11/2002
21	Date of Second Renewal, if applicable and its period & expiry	24/11/2022 to 23/11/2022
22	Date of Third Renewal, if applicable and its period & expiry	24/11/2022 to 23/11/2042
23	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA

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24	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Ashok Kumar Dubey (Prop.); M/s Gorelal Dubey, Nadi Par, P.O. & District – Katni (M.P.) – 483501 Phone -9425464736 E-mail: - dubey.84@gmail.com
25	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Vivek Dubey, Nadi Par, P.O. & District – Katni (M.P.) – 483501 Phone -9753360028 E-mail: - dubey.84@gmail.com
26	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Brijlal Prasad Mishra (Mine Manager), Date of Appointment – 01/08/2012 Phone - 9826312197
27	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Brijlal Prasad Mishra (Mining Engineer) Qualification - Diploma in Mining & Surveying Date of Appointment – 01/08/2012 Mobile, Email – 9826312197, dubey.84@gmail.com Shri Ajay Pandey (Geologist) Qualification - M.SC Geology, Date of Appointment – 01/11/2023 Mobile, Email -9589406417, dubey.84@gmail.com
28	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Mining plan under rule 10 of MCDR,1988 - 25-JAN-93 Scheme of Mining under Rule 12(3) Of MCDR1988 - 27-AUG-98 Mining plan under rule 17(3) of MCR 2016 - 24-JAN-06 Scheme of Mining under rule 12(3) of MCDR1988 - 26-FEB-08 Scheme of Mining under rule 12(3) of MCDR1988 06-AUG-12 Review Mining plan under rule 17(3) of MCR 2016 - 16-DEC-16 Review of Mining plan under rule 17(3) of MCR 2016 - 16-AUG-22
29	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	NA
30	Mineral(s) granted in lease and approved for Mining	Limestone & Dolomite mine
31	Method of Mining (Opencast, Underground)	Opencast
32	Category (Fully Mechanized, Others or Manual)	A
33	Captive/Non-Captive	Non-Captive

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Exploration

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S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Nil	2 bore holes proposed in the year 2022-23 & 2 bore holes drilled during the same year.	Form I & J submitted. Geological Study Report submitted.
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Entire lease 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 01.04.2023	Nil	Balance reserve as on 01/04/2024 – 111-547585 tonnes (Limestone)	Total production reported in AR 2023-24 is not depleted from the reserves. Violation pointed out under rule 45(7) of MCDR,2017
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire lease area explored up to G1 Level of exploration. 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 West of the Quarry 2.	As per proposal	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate bench for Overburden & mineral proposed	Yes, Separate bench for Overburden & Mineral were observed.	
2c	Stripping ratio or ore to OB ratio	1:0.044	1:0.04	
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden generation in m ³	31,603 cu.m	31,500 cu.m	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development was carried towards West of the Quarry 2 as per proposal.		

Exploitation

S.N.	Item	Proposals		Actual Work	Remarks
3a	Number of pits proposed for production	One pit		One pit	
3b	Quantity of ROM mineral production proposed (2023-24)	79690 tonnes		79200 tonnes	
3c	Recovery of Salable/usable mineral from ROM production	100 %		100 %	
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		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. Shovel -1- 1.1 cu.m Pumps -2- 20 lit/min Tipper -3- 3 cu.m	
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	5.72 hect.		5.72 hect.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.044		1:0.04	
3o	Total area put in use under different heads at the end of year	9.79 hect.		9.79 hect.	
3p	Production of ROM mineral during	2019-20	120425 t	2019-20 – 79061 t	
	last five-years period, as Applicable	2020-21	118360 t	2020-21- 79144 t	

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		2021-22	107277 t	2021-22 – 79020 t	
		2022-23	78885 t	2022-23 – 77545 t	
		2023-24	79690 t	2023-24 – 79200 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)	Not Proposed	OB generated used for backfilling of Quarry 1.	
4b	Location of topsoil, OB & mineral reject dumps	OB generated used for backfilling of Quarry 1.	As per proposal.	No proposal for Top soil & Mineral Reject.
4c	Number of Dumps within lease area and outside lease area	Not proposed	Not applicable	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Not applicable	
4e	Number of Active & Alive dumps	Not proposed	Not applicable	
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	OB generated during the year are used for backfilling of quarry 1 as per proposal.		

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	
5b	Area under backfilling of mined out area	1.5 hect.	1.5 hect.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	Not Applicable	

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5d	Total area fully reclaimed & rehabilitated	0.35 hect.	0.35 hect.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Proposed Backfilling carried out as per proposal & reclaimed by afforestation.		

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 proposed	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)	0.35 hect.	0.35 hect.	
	ii) Void filled by waste/tailings	31603 cu.m	31500 cu.m	
	iii) Afforestation on the backfilling	200	216	
	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			
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	PMCP compliance was observed as per proposal.		

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	BF grade	BF 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)	Not Proposed	Not Applicable	
8b	Concurrent use or storage of topsoil	Not Proposed	Not Applicable	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not Proposed	Not Applicable	OB generated used for backfilling of quarry 1.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB Proposed for backfilling	OB generated used for backfilling of quarry 1.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposal for backfilling of quarry 1.	As per proposal phased restoration and reclamation was carried.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation on proposed backfilling.	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	

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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.
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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 Brijlal Prasad Mishra (Mining Engineer) & Shri Ajay Pandey (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 – 5.720 hect. waste disposal – 0.15 hect. Reclaimed-rehabilitated – 0.35 hect. Infrastructure – 0.05 hect. Green Belt – 0.52 hect.	
9d	Scrutiny of Annual return on afforestation	200 number of saplings were proposed for plantation	216 saplings were planted.	
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 – 690.680	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex. Mine price - 370.26 and production cost – 295	
9h	Scrutiny of Annual return on fixed assets	Yes	Value of Fixed Assets* (₹ 5677191)	
9k	Scrutiny of Annual return on mining machineries	Yes	Shovel -1- 1.1 cu.m Pumps -2- 20 lit/min Tipper -3- 3 cu.m	

Details of Violations observed during current inspection and compliance position of violation pointed out:-

Rule – 31(4) of MCDR 2017
Rule – 33 of MCDR 2017
Rule – 45(7) of MCDR 2017

Name: Akash Arun Mittarwar
Designation: Assistant Mining Engineer