

**INDIAN BUREAU OF  
MINES**

**MINERALS DEVELOPMENT AND REGULATION DIVISION**

**MCDR inspection Report**

**Jabalpur regional office**

S.N.	Particulars	Details
1	Name of the Mine	Baragaon Limestone & Dolomite Mine
	Date of Inspection:	24-08-2024
	Name of Inspecting Officer	Akash Arun Mittarwar, Assistant Mining Engineer
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	5.47 Hect.
3	Mine code	38MPR47135
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/18865/2014
5	Last Inspection Details	23-02-2022 by Shri Naresh Katariya, DCOM
6	Mine official present during the inspection	Shri Anil Kumar Nigam (Mining Engineer) & Shri Anand Kumar Raikwar (Geologist)
7	Name of the Lessee, Address, Phone, email and faxnumber	M/s Micro Minerals; Gokul Dham Colony, Katni, District - Katni (M.P.) 483501 E-mail – agrawalradhakrishna@gmail.com Phone - 9425821133
8	Village	Baragaon
9	Taluka/Mandal	Badwara
10	District	Katni
11	Pin code	485773
12	State	Madhya Pradesh
13	Post Office	Badwara
14	Nearest Police Station	Badwara
15	Nearest Railway Station	Katni
16	Date of Grant of Mining Lease	13/01/2006
17	Date of Execution	24/11/2007
18	Lease period	07/12/2007 to 06/12/2037
19	Date of opening of Mine	02/11/2023
20	Initial Grant	07/12/2007 to 06/12/2037
21	Date of First Renewal, if applicable and its period & expiry	NA
22	Date of Second Renewal, if applicable and its period & expiry	NA
23	Date of Third Renewal, if applicable and its period & expiry	NA
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA

25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Radha Krishna Agrawal (Nominated Owner), M/s Micro Minerals; Gokul Dham Colony, Katni, District - Katni (M.P.) 483501 E-mail – agrawalradhakrishna@gmail.com Phone - 9425821133
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	NA
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	NA
28	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Anil Kumar Nigam (Mining Engineer) Qualification – Diploma in Mining & Mine Surveying Date of Appointment – 04/11/2023 Mobile, Email – 7597284106, Nigam_67@rediffmail.com Shri Anand Kumar Raikwar (Geologist) Qualification - M.Sc. (Geology), Date of Appointment – 04/11/2023 Mobile, Email - 9098720237, Anandraikwar5620@gmail.com
29	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 11 of MCDR,1988 – 10-NOV-2005 Scheme of Mining under Rule 12(3) Of MCDR1988 - 16-OCT-15 Review of Mining plan under rule 17(2) of MCDR,2016 – 13-AUG-21 Review of Mining plan under rule 17(2) of MCDR,2016 – 29-JUN-2022
30	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	NA
31	Mineral(s) granted in lease and approved for Mining	Limestone, Dolomite
32	Method of Mining (Opencast, Underground)	Opencast
33	Category (Fully Mechanized, Others or Manual)	A
34	Captive/Non-Captive	Non-Captive

**Exploration**

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Exploratory drilling of 9 bore holes were proposed during the year 2023-24	Exploration not done	Violation pointed out under rule 11(1) of MCDR,2017
1b	Exploration over lease area for Geological axis 1 or 2.	Proposal for G1 Level	Exploration not done	Violation pointed out under rule 11(1) of MCDR,2017
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 – 122-63741 tonnes (Limestone)	
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire lease area explored up to G2 Level of exploration. Exploration proposed during the year 2023-24 has been not carried out till date. Violation pointed out under rule 11(1) of MCDR,2017		

**Development**

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	In New Pit 1 located at the west of lease	As per proposal	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	One bench in OB/Waste & one bench in mineral was proposed.	As per proposal	
2c	Stripping ratio or ore to OB ratio	1:0.20	1:0.31	
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	Nil	
2e	Quantity of overburden generation in cu.m	2400 tonnes	2875 tonnes	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development was carried out in New pit 1 as per proposal. Limestone & dolomite is sedimentary rock deposit, bedded stratiform and tabular deposits of irregular habit.		

**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)	9750 tonnes (Limestone) & 2385 tonnes (Dolomite)		9055 tonnes (Limestone) & Nil (Dolomite)	Violation pointed out under rule 11(1) of MCDR,2017
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		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 – 1.0 cu.m Pumps -1- 100 lit/min Dumper – 2 - 24 tonnes	
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	0.2176 hect.		0.053 hect.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.20		1:0.31	
3o	Total area put in use under different heads at the end of year	0.6328 hect.		0.248 hect.	
3p	Production of ROM mineral during	2019-20	Nil	2019-20 – Nil	
	last five-years period, as Applicable	2020-21	Nil	2020-21- Nil	

		2021-22	Nil	2021-22 – Nil	
		2022-23	10095 t	2022-23 – Nil	
		2023-24	12135 t	2023-24 – 9055 t	
3q	General remarks of inspecting officer on method of mining etc	Category A mines have adopted mechanized method of mining. Mine is non-operational due to non-availability of Env. Clearance & CTO from Pollution control board.			

#### **Solid Waste Management-Dumping**

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Proposed	No proposal for top soil. OB/waste generated during the year 2023-24 dumped on New Dump MW1 located at the south of lease.	
4b	Location of topsoil, OB & mineral reject dumps	Dumping of overburden were proposed on New Dump MW1 located at the south of lease.	As per proposal	
4c	Number of Dumps within lease area and outside lease area	1 dump	1 dump	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	New Dump MW1 located at the south of lease.	As per proposal	
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 dumped on New Dump MW1 located at the south of lease 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	Not Proposed	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	Not Applicable	

5d	Total area fully reclaimed & rehabilitated	Not Proposed	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No proposal of backfilling, reclamation & rehabilitation during the year.		

**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)	Not proposed	Not applicable	
	ii) Void filled by waste/tailings	Not proposed	Not applicable	
	iii) Afforestation on the backfilling	Not proposed	Not applicable	
	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	100 plants	As per proposal	
	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	No proposal of backfilling, reclamation & rehabilitation during the year.		

**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	SMS grade	SMS 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)	Separate Dumping for overburden was proposed on New Dump MW1 towards south of the lease.	As per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Not Applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Not Applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	NA	100 saplings were planted.	Barrier zone between BP-7 & BP-8.
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.
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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 & Annual Return	Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist	Shri Anil Kumar Nigam (Mining Engineer) & Shri Anand Kumar Raikwar (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 – 0.053 hect. waste disposal – 0.035 hect. Roads – 0.060 hect. Mineral Storage – 0.07 hect. Others to specify – 0.03 hect..	
9d	Scrutiny of Annual return on afforestation	100 number of saplings were proposed for plantation	As per proposal	
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 – 9750.000	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex. Mine price - 350.00 and production cost - 249.60	
9h	Scrutiny of Annual return on fixed assets	Yes	Value of Fixed Assets* (₹700000)	
9k	Scrutiny of Annual return on mining machineries	Yes	Back hoe – 1 – 1.0 cu.m Pumps -1- 100 lit/min Dumper – 2 - 24 tonnes	

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

Rule – 11(1) of MCDR 2017  
Rule – 33 of MCDR 2017  
Rule – 45(7) of MCDR 2017

Name: Akash Arun Mittarwar  
Designation: Assistant Mining Engineer