

INDIAN BUREAU OF MINES

MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection Report

Jabalpur regional office

S.N.	Particulars	Details
1	Name of the Mine	Piprahat Limestone Mine
	Date of Inspection:	23-08-2024
	Name of Inspecting Officer	Akash Arun Mittarwar, Assistant Mining Engineer
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	8.068 Hect.
3	Mine code	38MPR35275
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/862/2011
5	Last Inspection Details	28-06-2023 by Shri Robert Simon C, ACOM
6	Mine official present during the inspection	Shri Ajay Kumar Pandey (Mining Engineer) & Shri Shridhar Pandey (Geologist)
7	Name of the Lease, Address, Phone, email and fax number	M/s Cimmco Lime & Minerals; Gulab Rai Building, Opp. Nagar Nigam, Katni - 483501 Phone - 07626271212; 8959594130 E-mail – cimmcolime@gmail.com
8	Village	Piprahat
9	Taluka/Mandal	Maihar
10	District	Satna
11	Pin code	485771
12	State	Madhya Pradesh
13	Post Office	Maihar
14	Nearest Police Station	Maihar
15	Nearest Railway Station	Maihar
16	Date of Grant of Mining Lease	18/12/2002
17	Date of Execution	31/03/2003
18	Lease period	31/03/2003 to 30/03/2053
19	Date of opening of Mine	01/06/2004
20	Initial Grant	31/03/2003 to 30/03/2023
21	Date of First Renewal, if applicable and its period & expiry	31/03/2023 to 30/03/2053
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

I/39817/2024

25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Naushad Bhagwagar (Nominated Owner), M/s Cimmco Lime & Minerals; Gulab Rai Building, Opp. Nagar Nigam, Katni - 483501 Phone - 9422802128 E-mail – cimmcolime@gmail.com
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Naushad Bhagwagar (Nominated Owner), M/s Cimmco Lime & Minerals; Gulab Rai Building, Opp. Nagar Nigam, Katni - 483501 Phone - 9422802128 E-mail – cimmcolime@gmail.com
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Ajay Kumar Pandey (Mining Engineer) Qualification – Bachelor of Engineering (Mining) Date of Appointment – 21/03/2024 Mobile, Email – 9755744292, cimmcolime@gmail.com
28	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Ajay Kumar Pandey (Mining Engineer) Qualification – Bachelor of Engineering (Mining) Date of Appointment – 21/03/2024 Mobile, Email – 9755744292, cimmcolime@gmail.com Shri Shridhar Pandey (Geologist) Qualification - M.Sc. (Geology), Date of Appointment – 21/03/2024 Mobile, Email - 9977807942, cimmcolime@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 10 of MCDR,1988 - 22-NOV-02 Scheme of Mining under Rule 12(3) Of MCDR1988 - 20-OCT-10 Scheme of Mining under Rule 12(3) Of MCDR1988 –27-JAN-16 Review of Mining plan under rule 17(2) of MCR 2016 – 10-MAY-19 Modification of Mining plan under rule 17(3) of MCR2016 – 14-SEP-23
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
32	Method of Mining (Opencast, Underground)	Opencast
33	Category (Fully Mechanized, Others or Manual)	A
34	Captive/Non-Captive	Non-Captive

MCDR-MiFLOLST/38/2023-JBP-IBM_RO_JBP

Exploration

I/39817/2024

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Exploratory drilling of 8 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	Entire lease area not explored up to G1 level.	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 – 122-2976580 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	Towards NE-SW of the pit	As per proposal	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	No benches in top soil & in overburden were proposed. Only one mineral bench was proposed.	As per proposal	
2c	Stripping ratio or ore to OB ratio	1:0.07	1:0.068	
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden generation in cu.m	11669 tonnes	1750 tonnes	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development was carried towards NE-SW of the pit as per proposal. Mine were discontinue from 31/03/2023 to 20/03/2024. Notice of temporary discontinuance of mine received on 21/04/2023 & Notice of Opening i.e. Form-C received in this office on 23/03/2024; therefore, less production of limestone & overburden were achieved.		

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)	166700 tonnes		25650 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. Excavator -2- 0.9 cu.m Pumps -1- 320 lit/min Dumper - 4- 15 tonnes Air Compressor -1- 386 Cu/min	
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	3.76 hect.		3.76 hect.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.07		1:0.068	
3o	Total area put in use under different heads at the end of year	5.82 hect.		5.792 hect.	
3p	Production of ROM mineral during	2019-20	154312 t	2019-20 – 59829 t	
	last five-years period, as Applicable	2020-21	155463 t	2020-21- 154310 t	

MCDR-MiFLOLST/38/2023-JBP-IBM_RO_JBP

I/39817/2024

		2021-22	156816 t	2021-22 – 156550 t	
		2022-23	159168 t	2022-23 – 159140 t	
		2023-24	166700 t	2023-24 – 25650 t	
3q	General remarks of inspecting officer on method of mining etc	Category A mines having adopted mechanized method of mining. Mine were discontinued from 31/03/2023 to 20/03/2024. Notice of temporary discontinuance of mine received on 21/04/2023 & Notice of Opening i.e. Form-C received in this office on 23/03/2024; therefore, less production of limestone & overburden were achieved.			

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Proposed	OB generated during the year 2023-24 used dumped on Dump D1	
4b	Location of topsoil, OB & mineral reject dumps	Dumping of overburden were proposed on Dump D1 towards south of the pit area	As per proposal	.
4c	Number of Dumps within lease area and outside lease area	4 dumps	4 dumps	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Dump 1 & 2 towards South of pit, Soil dump 1 & cluster of dumps towards North of the pit area.	As per proposal	
4e	Number of Active & Alive dumps	1 Active dumps D1 & 3 dead dumps	As per proposal	
4f	Number of dead dumps	3 dead dumps	3 dead dumps	
4g	Number of dumps established	Not proposed	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	Proposed	As per proposal	
4i	Length of Retaining wall or garland drain all along dump	550 m of Retaining wall or garland drain	Retaining wall or garland drain were observed	
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 Dump D1 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	0.0456 hect.	As per proposal	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	Not Applicable	

I/39817/2024

5d	Total area fully reclaimed & rehabilitated	0.0456 hect.	0.0456 hect.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Rehabilitation by afforestation were carried out on already backfilled area.		

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			Rehabilitation by afforestation were carried out on already backfilled area.
	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	150	150	
	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	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)	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 Dump for overburden were proposed on Dump D1 towards South of the pit.	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)	Proposal for rehabilitation of already backfilled area	As per proposal phased restoration and reclamation were carried.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation on proposed backfilling.	As per proposal	
8g	Survival rate	70%	70%	
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	

I/39817/2024

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 & Annual Return	Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist	Shri Ajay Kumar Pandey (Mining Engineer) & Shri Shridhar 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 – 3.760 hect. waste disposal – 0.953 hect. Reclaimed-rehabilitated – 0.045 hect. Infrastructure – 0.564 hect. Used for any other purpose (specify) Mineral stock, road, magazine etc. - 0.420 hect.	
9d	Scrutiny of Annual return on afforestation	150 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 – 21404.500	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex. Mine price - 400.00 and production cost – 242.05	
9h	Scrutiny of Annual return on fixed assets	Yes	Value of Fixed Assets* (₹ 2229919)	
9k	Scrutiny of Annual return on mining machineries	Yes	Excavator -2- 0.9 cu.m Pumps -1- 320 lit/min Dumper - 4- 15 tonnes Air Compressor -1- 386 Cu/min	

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

Rule – 11(1) of MCDR 2017
Rule – 12(4) of MCDR 2017

Name: Akash Arun Mittarwar
Designation: Assistant Mining Engineer