

**MCDR INSPECTION REPORT****General**

<b><u>S.N.</u></b>	<b><u>Particulars</u></b>	<b><u>Details</u></b>
1	Name of the Mine	Nanhwara Limestone Mines
	Date of Inspection:	01/08/2024
	Name of inspecting Officer	Robert Simon C
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	11.833 Ha (Non Forest)
3	Mine code	38MPR47015
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4613/2011
5	Name of the Lease, Address, Phone, email and fax number	Ashok Kumar Katare, Mission Chowk, Katni (MP),07622-406607, <a href="mailto:cimmcolime@gmail.com">cimmcolime@gmail.com</a>
6	Village	Nanhwara
7	Taluka/Mandal	Vijayraghavgarh
8	Distict	Katni
9	Pin code	483775
10	State	MP
11	Post Office	Nanhwara Kala
12	Nearest Police Station	Kymore
13	Nearest Railway Station	Jhukehi
14	Date of Grant of Mining Lease	19/06/2000
15	Date of Execution	19/06/2000
16	Date of opening of Mine	20/06/2000
17	Date of First Renewal, if applicable and its period & expiry	20/06/2020 Extended up to 18/06/2050
18	Date of Second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Ashok Kumar Katare, Mission Chowk, Katni (MP),07622-406607, <a href="mailto:cimmcolime@gmail.com">cimmcolime@gmail.com</a>
21	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in the mines	Krishna Nand Ojha , Vill/PO-Nanhwara Kala, Teh-Vijayraghav Garh,Katni (MP),8959594130, <a href="mailto:cimmcolime@gmail.com">cimmcolime@gmail.com</a> Date of Appointment -29/09/2012
22	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Krishna Nand Ojha , Vill/PO-Nanhwara Kala, Teh-Vijayraghav Garh,Katni (MP),8959594130, <a href="mailto:cimmcolime@gmail.com">cimmcolime@gmail.com</a> Date of Appointment-29/09/2012 Experience-50 Yrs.
23	Whether Geologist and Mining Engineer appointment in mines safety the rule 42 & carrying out their duties as per rule 43 & 44.	Shidhar Pandey (MSc Geology), Date of appointment 16/08/2023, Add.-N3/4 Subh City, Madhav Nagar Katni, 9977807942, <a href="mailto:cimmcolime@gmail.com">cimmcolime@gmail.com</a>
24	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in approval letter, if any.	MP/Katni/Limestone/Mining Plan/G.24/09-2000 Dt-15/03/2000; 2000-01 to 2004-05
25	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific	MP/Katni/Limestone/RMP-47/2020-21/1713,Dt-01/07/2020 2020-21 to 2024-25

	condition in approval letter, if any.	
26	Mineral (s) granted in lease and approved for Mining	Limestone
27	Method of Mining (Opencast, Underground)	Opencast
28	Category (Fully Mechanized, Others of Manual)	A
29	Captive/ Not-Captive	Non-Captive

### Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year(2022-23)	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2. (2023-24)	Nil	03 BHs drilled	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	NA	Rs.112500.00	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	G2-11.833 ha area to be explored in G-1.	G2-11.833 ha area to be explored in G-1.	
1e	Balance reserves & resource as on 01.04.2024	121-2202519 T	121-2007539 T	
1f	General remarks of Inspecting officer on geology, exploration etc.	Rohtas limestone is well exposed in the area and the physical properties point of view it is fine to medium grained, light grey in colour. The sub surface beds are mainly light grey and on erosion the surface appears rough and corrugated. The strike is NE-SW with low dip 4-10 towards the North.		

### Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	E/W- 407 -224 N/S - 250-030	E/W- 407 - 224 N/S - 250 - 030	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in overburden and mineral proposed.	As per proposal	
2c	Stripping ratio or ore to OB ratio	1:0.13	1:0.13	
2d	Quantity of topsoil generation in m <sup>3</sup> (2023-24)	0	0	
2e	Quantity of overburden generation in m <sup>3</sup> (2023-24)	26176	24500	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.			

### Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed (2023-24)	196323 T	194980 T	
3c	Recovery of Salable/usable mineral from ROM production	100 %	100 %	
3d	Quantity of mineral reject generation	Not Proposed	Nil	

3e	Grade of mineral reject generation and threshold value declared	Not Proposed	Nil	
3f	Quantity of sub-grade mineral generation	Not Proposed	Nil	
3g	Grade of sub-grade mineral generation	Not Proposed	Nil	
3h	Manual/Mechanized method adopted for segregation from ROM	Not Proposed	Nil	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject.	Not Proposed	Nil	
3j	Provision of drilling & blasting in mineral benches	Slurry Explosive , Wagon Drill & Jack Hammer	Slurry Explosive,Wagon Drill & Jack Hammer	
3k	Provision of mining machineries in mineral benches	Deployment of HEMM with Dumpers	Use of 0.9 Cub.mt. HEMM with Dumpers	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5-6m	5-6m	
3m	Total area covered under excavation /pits (2023-24)	7.754 ha	7.82 ha	
3n	Ore to OB ratio for the pit/mine during the year (2023-24)	1:0.13	1:0.13	
3o	Total area put in use under different heads at the end of year (2023-24)	11.1797 ha	11.005 ha	
3p	Production of ROM mineral during last five-years period, as Applicable	2019-20	337781	188670
		2020-21	198418	43160
		2021-22	198655	89010
		2022-23	198560	198100
		2023-24	196323	194980
3q	General remarks of inspecting officer on method of mining etc			

#### **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 OB proposed.	Separate dumping of OB done.	
4b	Location of topsoil, OB & mineral reject dumps	Waste dump in the south western part of the lease between the coordinates N 2655970 – N 2656125 & E 454135- E 454250.	The said waste dump was only extended between N 2656040 – N 2656125 & E 454135- E 454190.	Violation pointed out under rule 11(1).
4c	Number of Dumps within lease area and outside lease area	03 within lease area	03 within lease area	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of Active & Alive dumps	2 Nos.	2 Nos.	
4f	Number of deed dumps	01	One South East	
4g	Number of dumps	01	One South East	

	established			
4h	Whether Retaining wall or garland drain all along dumps are there	Not specified	Garland drain -330 m.	
4i	Length of Retaining wall or garland drain all along dump	Not specified	Garland drain -330 m.	
4j	Number of settling ponds	01	01	
4k	Specific commends of inspecting officer on waste dump management	It was proposed to maintain waste dump in the southwestern part of the lease between the coordinates N 2655970 – N 2656125 & E 454135- E 454250. But during the year, the said waste dump was not maintained as per proposal instead only extended between N 2656040 – N 2656125 & E 454135- E 454190. Hence, Violation pointed out under rule 11(1).		

### **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	Backfilling in NW &SE	Backfilling in SE & SW	
5b	Area under backfilling of mined out area	0.1768 Ha.	0.10Ha.	Cumulative 1.22 Ha
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Mined out barrier zone 7.5m to backfilled	0.10Ha.	Afforested by 150 nos. trees after top soil spreading
5d	Total area fully reclaimed & rehabilitated	0.1768 Ha	0.10Ha.	Cumulative-0.86 Ha.
5e	General remarks of inspecting officer on backfilling, reclamation etc			

### **Progressive Mine Closer Plan**

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly- Rule 26(2). Details should be given in the format as given in Annexure-20	Yes	Submitted	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	0.1768	0.10	Cumulative 0.86 Ha.
	ii) Afforestation done (ha)	0.0009	0.01	Cumulative 1.7048 Ha
	iii) No. of saplings planted during the	WL-10	WL-90 OL-60	

	year			
	iv) Cumulative no. of plants	Not Proposed	1330(approx..)	
	v) Any other specific method of rehabilitation	Not Proposed	Not done	
	vi) Cost incurred on watch & care during the year	Not Proposed	Rs. 96000/-	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D) ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	Not Proposed	150 Nos. Trees	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	Not proposed	Within lease there is no waste land	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Monitoring proposed	Yearly monitoring of air, water & noise done.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations			

### Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral dispatch proposed	ROM mineral dispatch done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed	Mechanical	
7c	Different grade of mineral sort out at mine	Not proposed	Not done	
7d	Any beneficiation process at mines	Not proposed	Not done	

7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No beneficiation proposed. ROM mineral dispatch done.
----	--	---

### Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not proposed	Top soil already spreaded over backfilled area for plantation	
8b	Concurrent use or storage of topsoil	Not proposed	Already Spreaded over SE Dump for plantation	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Proposed to dump separately SW and SE dump	It is dumped in SW and SE dumps as per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed.	OB used in backfilling in 7.5 m barrier zone of SE dump for plantation. T emporarily storage at SW dump.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Only 7.5 m barrier zone worked out (south)	Barrier zone at SW and south centre was reclaimed by plantation	Backfilled area rehabilitated by plantation
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed	90 Nos.	1339 Nos.
8g	Survival rate	Proposed	10% & 70 %	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling on roads carried out.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area is well maintained.		

### Compliance of Rule 45

S.N.	Item	Proposal	Actual Work	Remarks
9a	Status of submission of monthly and Annual returns	Proposed	Submitted online.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager – Provided Mining Engineer- Provided Geologist- Provided	Manager & Mining Engineer in charge: Krishna nand ojha Geologist in charge : Shridhar Pandey.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited and abandoned by opencast (O-C) mining 0.000 Covered under current (O-C) 7.820 Reclaimed-rehabilitated 1.220;Used for waste disposal 0.640;Occupied by plant, buildings, residential, welfare buildings and roads 0.122;Used for any other purpose (specify) Mineral stack, top soil, plantation 1.421;Work done under progressive mine closure plan during the year 1.220	The details wrt to work done under progressive mine closure plan during the year is incorrectly furnished.	Violation pointed out under rule 45(7).
9d	Scrutiny of Annual return on afforestation	i) Number of trees planted during the year 90 60 ii) Survival rate in percentage 10 70 iii) Total no. of trees at the end of the year 1339 10202	The details wrt to total no.of trees at the end of the year is incorrectly furnished.	Violation pointed out under rule 45(7).
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Given	Closing stock as on 01/04/2024 – 5181.08 T (ROM) SMS Grade	
9g	Scrutiny of Annual return on sale value, Ex-Mine price & production costs	Given	Sale Value- Rs.- 385.76 /MT Ex-Mine-Rs.- 383.43 /MT Production Cost-Rs.- 284.18 /MT	SMS Grade Sold Ex-Mine ROM
9i	Scrutiny of Annual return on Fixed assets	Given	Rs. 2981506	
9k	Scrutiny of Annual return on mining Machineries	Given	Excavators-2 Nos. (0.9 m3 Bucket) Dumper -5 Nos. (25 MT Cap.)	

Date of Validations observed during current inspection and compliance position of earlier violation pointed out:-

Details of violations observed during current inspection and compliance position of violation pointed out					
Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 11(1)	08-NOV-24				
Rule 45(7)	08-NOV-24				

Date -

Name:  
Designation: