

**INSPECTION DATASHEET For THE YEAR 2023-24****General**

<b>S.N.</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine	<b>Padrehi Limestone Mine</b>
	Date of Inspection:	29.05.2024
	Name of Inspecting Officer	Shri Abhishek Ranjan Gautam, Assistant Mining Engineer
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	4.77
3	Mine code	38MPR47032
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/6189/2011
5	Last Inspection Details	28-08-2023
6	Mine official present during the inspection	Shri C. L. Pandey, Shri J. L. Sharaf (Mining Engineer), Shri Vidya Sagar Sahu (Geologist) and other mines officials
7	Name of the Lease, Address, Phone, email and fax number	M/s Triveni Lime Company Raghunathganj, Katni-483501
8	Village	<b>Padrehi</b>
9	Taluka/Mandal	Vijayraghavgarh
10	District	Katni
11	Pin code	483830
12	State	MP
13	Post Office	Kymore
14	Nearest Police Station	Kymore
15	Nearest Railway Station	Jhukehi
16	Date of Grant of Mining Lease	02/03/1982
17	Date of Execution	02/03/1982
18	Date of opening of Mine	
19	Date of First Renewal, if applicable and its period & expiry	02/03/2002
20	Date of Second Renewal, if applicable and its period & expiry	--
21	Date of submission of renewal application if Mining Operations are continuing under deemed extension	--
22	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Mohan Kumar Agrawal, Raghunath ganj Katni - 9425157343
23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Mohan Kumar Agrawal, Raghunath Ganj Katni – 9425157343, trivenilime@gmail.com
24	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri J. L. Sharaf (Mining Engineer)

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25	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri J. L. Sharaf (Mining Engineer)
26	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Vidya Sagar Sahu (Geologist)
27	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	MP/Katni/Limestone/MPLN /R-02/98/99
28	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	MP/Katni/Limestone/RMP-46/2022-23
29	Mineral(s) granted in lease and approved for Mining	Limestone
30	Method of Mining (Opencast, Underground)	Opencast
31	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
32	Captive/Non-Captive	Non Captive

### Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	03 BH (2022-23)	Done	GSR Not submitted VL pointed out
1b	Exploration over lease area for Geological axis 1 or 2.	Entire lease area to be explored upto G1 level	G1- 2.860	Proposal given in the year 2024-25
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not applicable	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2.		0.55 ha	Some part of the lease area has been restricted due to forest boundary
1e	Balance reserves as on 01.04.2024	111 - 869563.75 tones 122 – 148022 tones		
1f	General remarks of Inspecting officer on geology, exploration etc.	GSR Not submitted Violation pointed out under rule 12(4)		

### Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Working Was Proposed to be done in Pit No.1 (Northern Part)	Work Done as per proposal	
2b	Separate benches in topsoil	Separate benches in topsoil, overburden,	Separate benches in topsoil, overburden,	

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	overburden and mineral (Rule 15)	and minerals have been proposed	and minerals have been maintained.	
2c	Ore to OB Ratio (ton/m <sup>3</sup> )	20	as per proposal	
2d	Quantity of topsoil generation in m <sup>3</sup>	Not Proposed-	Not applicable	
2e	Quantity of overburden generation in m <sup>3</sup>	7068.00	7000	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	No comments		

### Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	One Pit	Actually at initial there were two pits namely Pit1 and pit 2 within the lease area. Both the pits have merged and as on date there is only one pit which happens as per approved proposal.	
3b	Quantity of ROM mineral production proposed (2023-24)	98952.00	101648.52	Additional production of 2696.52 ROM tones has been recorded in the annual return. VL pointed out
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	

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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	Deep drilling with 110mm dia drilling & blasting is proposed by Jack hammer/wagon drill		Deep drilling with 110mm dia drilling & blasting is proposed by Jack hammer/wagon drill	-
3k	Provision of mining machineries in mineral benches	Mining was proposed to be carried out by using excavator/loader & dumper		As per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes Suitable		Yes Suitable	-
3m	Total area covered under excavation /pits	2.760 ha		-	-
3n	Ore to OB Ratio (ton/m <sup>3</sup> )	20		as per proposal	
3o	Total area put in use under different heads at the end of year	covered under excavation – 2.760 ha Reclaimed-rehabilitated – 0.294 ha Used for waste disposal – 0.598 ha Occupied by plant, buildings, residential, welfare buildings and roads – 0.186 ha Plantation – 0.091 ha		covered under excavation – 2.760 ha Reclaimed-rehabilitated – 0.294 ha Used for waste disposal – 0.598 ha Occupied by plant, buildings, residential, welfare buildings and roads – 0.186 ha Plantation – 0.091 ha	
3p	Production of ROM mineral during last five-years period, as Applicable	Year	Proposal	Achievement	Additional production of 2696.52 ROM tones has been recorded in the annual return. VL pointed out
		2019-20	81942	Nil	
		2020-21	76954	4491	
		2021-22	80519	71390	
		2022-23	86834	86814	
		2023-24	98952.00	101648.52	

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3q	General remarks of inspecting officer on method of mining etc	Additional production of 2696.52 ROM tones has been recorded in the annual return. VL pointed out
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**Solid Waste Management-Dumping**

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Concurrent use of OB & top soil proposed for backfilling towards southern part	Backfilling of pit on north western porttion of lease area now falls outside of ultimate pit limit due to barrier zone for road passing through the area , carried out	-
4b	Location of topsoil, OB & mineral reject dumps	External dumping for top soil and OB proposed	Dumping done as proposed	
4c	Number of Dumps within lease area and outside lease area	One dump	One dump	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of Active & Alive dumps	One dump	One dump	
4f	Number of deed dumps	Nil	Nil	
4g	Number of dumps established	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes proposed	Constructed along the Dump	
4i	Length of Retaining wall or garland drain all along dump	Yes proposed	Constructed along the Dump	
4j	Number of settling ponds	Nil	Nil	
4k	Specific commends of inspecting officer on waste dump management	Concurrent use for reclamation by backfilling proposed at mined out area and 7.5m barrier zone but not done.		

**Solid Waste Management-Backfilling**

<b>S.N.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Limestone exhausted pit area proposed for backfilling	Not done	
5b	Area under backfilling of mined out area	1.54hect	Backfilling not carried out as per the proposals	Violation pointed out
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Proposed for plantation purpose over backfilled area	Concurrent use of top soil for plantation purpose carried out over near mine office.	
5d	Total area fully reclaimed & rehabilitated	1.54hect	Backfilled area- 0.35hect (70mX50m). Plantation over backfilled area was not seen. However a good no. of saplings have planted near mine office. Growth of plantation were found very good.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling of old pits were lies near northern lease boundary line now fall under 50m barrier zone for road passing through the area appears a nise step for utilisation of mine waste generated during mining operation. A good number of plantation made near mine office and health of plants were seen very nice. Thus, a very good steps have taken by the lessee towards backfilling and reclamation of the degraded area.		

**Progressive Mine Closer Plan**

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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	The holder of a mining lease shall submit to the competent authority a yearly report as per the format specified by the Indian Bureau of Mines, before 1st day of July report every year	The annual return on PMCP has been submitted timely.	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	1.54 ha	Nil	Violation pointed out
	ii) Afforestation done (ha)	0.311 ha	0.12 ha	
	iii) No.of saplings planted during the year	Not Proposed	150 nos	
	iv) Cumulative no. of plants	Not Proposed	Not specified	
	v) Any other specific method of rehabilitation	Not Proposed	Nil	
	vi) Cost incurred on watch & care during the year	Not Proposed	Nil	
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	1.54 ha	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	1.54 ha	Nil	

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6e	Compliance of Environment monitoring (core zone & buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Yes, Compliances of environmental monitoring is being carried out.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	The annual return on PMCP has been submitted timely.		

#### Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral dispatch proposed after sizing	ROM mineral carried out dispatch as proposed	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised	Mechanised	-
7c	Different grade of mineral sort out at mine	SMS and Cement Grade	SMS Grade	-
7d	Any beneficiation process at mines	Not proposed	Not applicable	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM mineral carried out dispatch as proposed		



Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Separate removal and concurrent use for plantation & backfilling propose	Carried out as per the proposals	-
8b	Concurrent use or storage of topsoil	Concurrent use of top soil Proposed	Concurrent use of top soil for plantation as well used for topping over backfilled area	-
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Concurrent backfilling was proposed at southern part of mined out pit	Concurrent backfilling was done of the old pits lies near norther lease boundary line.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Concurrent backfilling was proposed at southern part of mined out pit	Concurrent backfilling was done of the old pits lies near norther lease boundary line.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Concurrent backfilling was proposed at southern part of mined out pit	Concurrent backfilling was done of the old pits lies near norther lease boundary line.	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed	Plantation done (150 ns of plant)	-
8g	Survival rate	80%	50%	-
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area is maintained.		

Compliance of Rule 45

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S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Monthly and annual returns are being submitted in time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	<b>Name of the Mining Engineer:</b> Shri J. L. Sharaf <b>Geologist:</b> Shri Vidya Sagar Sahu	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	covered under excavation – 2.760 ha Reclaimed-rehabilitated – 0.294 ha Used for waste disposal – 0.598 ha Occupied by plant, buildings, residential, welfare buildings and roads – 0.186 ha Plantation – 0.091 ha	
9d	Scrutiny of Annual return on Afforestation	Plantation done (150 ns of plant)	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	ROM closing stock – 1515.820 tones	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex mine prize – Rs 297/- Cost of Production – Rs 254.01/-	
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets* Rs – 4788465 /-	
9k	Scrutiny of Annual return on mining Machineries	SHOVEL (HYDRAULIC) 0.900 CUM 1 Non Electrical Opencast DUMPER 16.000 TONNE 2 Non Electrical Opencast WATER TANKER 2000.000 LITRE 1 Non Electrical Opencast PUMPS (ELEC.) 650.000 L/MN 2 Electrical Opencast	

Details of Validations observed during current inspection and compliance position of earlier violation pointed out:- Details is given below:

MCDR-MiFLOLST/56/2022-JBP-IBM\_RO\_JBP

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Rule – 11(1) of MCDR 2017 Dated 21/06/2024

Rule – 12(4) of MCDR 2017 Dated 21/06/2024

Rule – 45(7) of MCDR 2017 Dated 21/06/2024

Date:

Name: Shri Abhishek Ranjan Gautam

Designation: Assistant Mining Engineer