

1INSPECTION DATASHEET year 2022-23**General**

S.N.	Particulars	Details
1	Name of the Mine	Kachhgawan Limestone Mine
	Date of Inspection:	10.05.2023
	Name of Inspecting Officer	Mr. Abhishek Ranjan Gautam
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	3.456 hectare
3	Mine code	38MPR18124
4	Last Inspection Details	Inspecting officer – Shri J K Pandey Date of Inspection – 18/11/2021 VL pointed out - 11(1), 26(2), 33, 46 Status – Compliance on dated – 27/01/2022
5	Mine official present during the inspection	Shri G D Dixit, Lessee representative, Shri J L Saraf, Mine Manager
6	IBM Registration Number under rule 45 of MCDR,1988	IBM/5778/2011
7	Name of the Lease, Address, Phone, email and fax number	Shri Shailendra Nagrath, Civil Lines, Katni
8	Village	Kachhgawan
9	Taluka/Mandal	Katni
10	District	Katni
11	Pin code	483501
12	State	Madhya Pradesh
13	Post Office	Kahangawan
14	Nearest Police Station	Vijayraghvargh
15	Nearest Railway Station	Jhukehi
16	Date of Grant of Mining Lease	17/02/1976
17	Date of Execution	16/02/2026
18	Date of opening of Mine	-
19	Date of First Renewal, if applicable and its period & expiry	-
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 Shailendra Nagrath, Civil Lines, Katni, Mobile no. - 9893312032
23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Amit Kumar Tiwari, Hemukulani Ward, Madhav Nagar, Katni-483501 (M.P.), +91-8319370498, amitenterprises0818@gmail.com , 16.09.2022 (Date of appointment)
24	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Mr. J L Saraf, Manager

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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	Ritesh Dixit, Bachelor of Engineering, C/O Bhawani Shankar Dixit, Tilak Chowk, Bahamangawan Deori Manjhgawan, Katni-483880
26	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Ajay Pandey.
27	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	07.12.2021,
28	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	-
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)	Manual
32	Captive/Non-Captive	Non Captive

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Nil	Not applicable	
1b	Exploration over lease area for Geological axis 1 or 2.	Lease area explored upto G1 level	Lease area explored upto G1 level	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Lease area explored upto G1 level	Lease area explored upto G1 level	
1e	Balance reserves as on 01.04.2023	111 - 364143	111 - 364143	
1f	General remarks of Inspecting officer on geology, exploration etc.	Lease area already explored upto G1 level.		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Towards south of lease area and existing single pit.	The developement work done in south of lease area where proposed.	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	02 benches in soil /ob of 3m & 2.5m hight and 06 benches in mineral of hight 3m to 6m.	In actual Soil/ ob benches of 3m. and 2.5m. hight & mineral benches where working proposed and carried out from 3m. to 6m. hight observed.The maximum depth of pit was 55m.,the last bench of about 6m. hight was observed as sump where dewatering was done.	

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2c	Stripping ratio or ore to OB ratio	1:0.42	1:0.13
2d	Quantity of topsoil generation in m ³	3743 m ³	3000 m ³
2e	Quantity of overburden generation in m ³	13117 m ³	13012 m ³
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Bench height not maintained as per proposal.	

Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	One	One	
3b	Quantity of ROM mineral production proposed (2022-23)	99994 tonnes	99360 tonnes	
3c	Recovery of Salable/usable mineral from ROM production	80%	About 80%	
3d	Quantity of mineral reject generation	Not proposed	Not generated.	
3e	Grade of mineral reject generation and threshold value declared	Not proposed	Not applicable	
3f	Quantity of sub-grade mineral generation	Not proposed	Not generated.	
3g	Grade of sub-grade mineral generation	Not proposed	Not applicable	
3h	Manual/Mechanized method adopted for segregation from ROM	Not proposed	Not applicable	
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	Drilling & blasting proposed in mineral	Jack hammer drilling upto 1.5m. depth of	

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	benches	benches.	32mm. dia holes & blasting as proposed done.	
3k	Provision of mining machineries in mineral benches	Dumpers of 10 & 16 tonnes & excavator of 1.2cu.m. capacity combination proposed.	Dumpers of 10 & 16 tonnes & excavator of 1.2cu.m. capacity combination deployed as proposed.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	02 benches in soil /ob of 3m & 2.5m high and 06 benches in mineral of height 3m to 6m.	Bench height not maintained as per proposal.	
3m	Total area covered under excavation /pits	0.2 ha	About 0.2 ha. for year 2022-23, cumulative 3.1 ha. Lease area degraded by single pit.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.42	1:0.13	
3o	Total area put in use under different heads at the end of year	Pit-3.1 ha. Waste dump-0.059 ha. Haul roads -.0.25 ha. Plantation -.0.122 ha.	Pit-3.1 ha. Waste dump-0.059 ha. haul roads -.0.25 ha. Plantation -.0.122 ha.	
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19	94688 T	94561 T
		2019-20	94687 T	67020 T
		2020-21	99994 T	99310 T
		2021-22	99996 T	
		2022-23	99994 T	99360 T
3q	General remarks of inspecting officer on method of mining etc	Fully mechanized method of mining deploying HEMM is being carried out. But during the inspection it was observed that bench height not maintained as per proposal.		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Not proposed	Backfilling proposed in northern side of 7.5m. earlier excavated lease area but Backfilling not done as proposed.	
4b	Location of topsoil, OB & mineral reject	Not proposed	Backfilling proposed in	

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	dumps		northern side of 7.5m. earlier excavated lease area but Backfilling not done as proposed.	
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	One old waste dump	The old waste dump was partially removed as proposed and utilised for backfilling.	
4g	Number of dumps established	Nil	Nil	
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	Dumping not proposed only backfilling proposed in northern side of 7.5m. earlier excavated lease area and carried out as proposed. The soil/OB is not black soil it is mixed with OB hence utilized for backfilling. One old waste dump now rehandeled for backfilling as this dump is in mineralized area hence rehandeled for future mining as proposed.		

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 proposed in about 500	Backfilling done in about 500 sq.m. in	

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		sq.m. in northern side of 7.5m. earlier excavated lease area.	northern side of 7.5m. earlier excavated lease area as proposed. Lease area is not yet exploited for full depth.	
5b	Area under backfilling of mined out area	Backfilling proposed 7.5m. earlier excavated lease area.	Lease area is not yet exploited for full depth.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	There is only soil mixed with ob utilised for backfilling.	There is only soil mixed with ob utilised for backfilling.	
5d	Total area fully reclaimed & rehabilitated	Partially backfilling proposed	Partially backfilling not done as proposed.	Violation pointed out under rule 11(1)
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling proposed in about 500 sq.m. in northern side of 7.5m. earlier excavated lease area and carried out as proposed. Partially backfilling not done as proposed.		

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	Annual return of PMCP for the year 2020-21 to be submitted.	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 proposed	Not applicable	

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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	Backfilling proposed in northern side of 7.5m. earlier excavated lease area.	Backfilling not done	Violation pointed out
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	Not proposed	Not applicable	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environmental monitoring proposed	Environmental monitoring carried out but data not provided.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Water spraying on haul roads observed, plantation done.		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch from lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sort out at mine	Grading of mineral at mines.	Yes, grading of mineral done at mine site.	
7d	Any beneficiation process at mines	Not proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The ROM mineral on the basis of grade dispatched, there is no issue of mineral conservation observed.		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not proposed	As there is no top soil only soil mixed with ob present and used for baxckfilling as proposed.	
8b	Concurrent use or storage of topsoil	Not proposed	Excavated soil not top soil Proposed for backfilling.	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not proposed	Not applicable	
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)	plantation proposed 50 trees during the year 2022-23	During the year 200 trees planted & about 1500 trees planted so for and present in the lease area as almost lease area is exploited by pits/roads/dumps hence old plantation not observed.	
8g	Survival rate	90%	90%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling on haul roads observed during inspection.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Water spraying on haul roads observed, plantation done in 7.5mtrs boundary.		

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	MR & AR to be submitted.	MR upto May 2023 & AR upto 2022-23 submitted online.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer – Shri Ritesh Dixit Geologist – Shri Ajay Pandey	Mining Engineer – Shri Ritesh Dixit Geologist – Shri Ajay Pandey
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-3.1 ha. Waste dump-0.059 ha. Haul roads -.0.25 ha. Plantation -.0.122 ha.	Pit-3.1 ha. Waste dump-0.059 ha. haul roads -.0.25 ha. Plantation -.0.122 ha.
9d	Scrutiny of Annual return on afforestation	plantation proposed 50 trees during the year 2022-23	During the year 200 trees planted
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Not given	Not generated
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Production – 99360 Dispatch – 108305 Closing stock – 1002.520	Details as per AR
9g	Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Ex mine prize – 292.08/- Cost of production –Rs 257.72/-	Details as per AR
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets* (₹ 2261379)	Details as per AR
9k	Scrutiny of Annual return on mining Machineries	One excavator of 1.2cu.m. capacity, 04 dumpers of 10-16 tonnes capacity & one water tanker.	The details of mining machineries given in AR is correct.

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

Current Inspection - Rule 11(1), Rule 31(4), & Rule 34A(2) of MCDR 2017

Last Inspection - Inspecting officer – Shri J K Pandey

Date of Inspection – 18/11/2021

VL pointed out - 11(1), 26(2), 33, 46 of MCDR 2017

Status – Compliance on dated – 27/01/2022

Date:

Name:

Designation: