

MCDR INSPECTION REPORT**General Information**

S.N.	Particulars	Details
1	Name of the Mine	Bitkuli Limestone Mine (1.457 ha)
2	Date of Inspection	30.05.2024
3	Name of Inspecting Officer	Sanjay Kumar Mahapatra, Assistant Controller of Mines
4	Last date of Inspection & Officer	23.09.2021, D. Dash, Senior Mining Geologist, Senior Mining Geologist
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non- forest: 1.457 hect. Forest Land: 00.00 hect. Total Land: 1.457 hect.
6	Mine code	38CHG14023
7	IBM Registration Number under rule 45 of MCDR,2017	IBM/4989/2011
8	Name of the Lease, Address, Phone, email and fax number	Shri Khemlal Verma, Teacher's colony, Bajrang wardno-5, At&PO. -Tilda, Pin code -493114, District: Raipur, Chhattisgarh. Mobile: 9753152650 Email: khemlalverma45@gmail.com
9	Village	Bitkuli
10	Taluka/Mandal	Simga
11	District	Balodabazar-Bhatapara
12	Pin code	493195
13	State	Chhattisgarh
14	Post Office	Suhela
15	Nearest Police Station	Suhela
16	Nearest Railway Station	Hathbandh
17	Date of Grant of Mining Lease	6/12/1996 to 05/12/2016 (20 years) Granted to Shri Anil Pusadkar, Later on, Mining lease was transferred to Shri Khemlal Verma vide lease deed dated 24/05/2004 and registered on 07/06/2004. Mining lease extended upto 05/12/2046 (30 years)
18	Date of Execution	6/12/1996
19	Date of opening of Mine	01/05/2002
20	Date of First Renewal, if applicable and its period & expiry	06/12/2016 to 05/12/2046 (30 years)
21	Date of Second Renewal, if applicable and its period & expiry	N. A
22	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N. A
23	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Khemlal Verma, Teacher's colony, Bajrang ward no-5, At& PO. -Tilda, -493114, District: Raipur, Chhattisgarh., Mobile: 9753152650 Email: khemlalverma45@gmail.com

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24	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Not mentioned
25	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri K.L. Sharma, B.E., (Mining), Teacher's colony, Bajrang wardno-5, At&PO. -Tilda, Pin code -493114, District: Raipur, Chhattisgarh. phone no. 9669399652
26	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri K.L. Sharma, B.E., (Mining), Teacher's colony, Bajrang wardno-5, At&PO. -Tilda, Pin code -493114, District: Raipur, Chhattisgarh. phone no. 9669399652
27	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 55 & carrying out their duties as per rule 54 & 55 (MCDR 2017).	Shri Subhash Verma, Msc (Geology), Teacher's colony, Bajrang wardno-5, At&PO. -Tilda, Pin code -493114, District: Raipur, Chhattisgarh.
28	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in approval letter, if any.	Mining Plan RPR/LST/MPLN-433/NGP Dated 10/05/1995 Proposal From 1996-97 to 2000-01.
29	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	(i) Modified Mining Plan :BBR/LST/MPLN-1076/2017-RPR dated 18.04.2017 for the period from 2016-17 to 2020-21 (ii) Review of Mining Plan: BBR/LST/MPLN-1273/2021/RPR dated 31.05.2021 Proposal From 2020-21 to 2025-26
30	Mineral(s) granted in lease and approved for Mining	Limestone
31	Method of Mining (Opencast, Underground)	Opencast
32	Category (Fully Mechanized, Others or Manual)	Category -A, Mechanized
33	Captive/Non-Captive	Non-Captive mine
34	Environmental Clearance	60000.00 Tone
35	Financial Assurance	Rs 10Lakh valid up to 31.06.2026

Exploration

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
1a	Backlog of previous year	02	Nil	During the year 2021-22, exploration was proposed by carrying out 02 bore holes. However, it is observed during inspection that no bore holes has been drilled so far. Area is explored in G1 category through quarry development.
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Nil	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	No exploration proposed for remaining area.	N/A	
1e	Balance reserves as on 01.04.21	Under 111: 1,39,252.00T.		

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- Under 222: 525525.00T
- 1f General remarks of Inspecting officer on geology, exploration etc.
- The Bitkuli Limestone deposit belongs to Raipur formation constituting 'Raipur Group' of Chhattisgarh Supergroup. The limestone is light purple and grey color hard massive thickly bedded and yield a prolific development of stromatolites. The Bitkuli limestone consists of course to medium grained. The general strike direction of the limestone formation of the lease area is N 30°E- S30°W with 0 to 2° dip towards north -west direction. The reserves have been estimated based on two boreholes drilled during 2013 & 2016. During the year 2021-22 further two boreholes have been proposed in approved document. As such entire deposit is exposed up to 245 MRL(30m) through quarry development which may be considered as G1 scale explored area. *Violation of Rule 11(1) is being issued for not carrying out the exploration proposal during the year 2021-22.*

Development

S. N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
2a	Location of Development w.r.t. lease area	One Quarry	Within the proposed area,	Only 200 tonnes
2b	Separate benches in topsoil overburden and mineral (Rule 15)	proposed	As per proposal	production achieved.
2c	Stripping ratio or ore to OB ratio	1:0.050	1:0	
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden generation in m ³	Nil	Nil	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Mining is carried out at the lower benches, thus, no top soil encountered. No waste generation reported during the year.		

Exploitation

S. N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed (2023-24) in tonnes	10500	200	Less production due to no market demand.
3c	Recovery of Salable/usable mineral from ROM production (in tonnes)	9975	200	
3d	Quantity of mineral reject generation (in tones)	525	00	Bottom bench worked thus no reject generated as production is less.

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3e	Grade of mineral reject generation and threshold value declared	Cao < 40% MgO > 5%	Nil	
3f	Quantity of sub-grade mineral generation	No Proposal	Nil	
3g	Grade of sub-grade mineral generation	No Proposal	Nil	
3h	Manual/Mechanized method adopted for segregation from ROM	No segregation proposed in approved Mining Plan	Nil	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal in approved Mining Plan	Nil	
3j	Provision of drilling & blasting in mineral benches	yes	yes	
3k	Provision of mining machineries in mineral benches	No	No	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Ht- 05 Mt , Width – 08 Mt	Bench Ht- 08Mt , Width – 06 Mt	Violation of Rule 11(1) of MCDR 2017 pointed.
3m	Total area covered under excavation /pits	1.175	1.175	
3n	Ore to OB ratio for the pit/mine during the year	1:0.050	1:0.0	
3o	Total area put in use under different heads at the end of year	1.175 ha area proposed for excavation Roads: 0.05ha,	1.175 ha area under excavation, nil area for waste dump, Roads: 0.05 ha	
3p	Production of ROM in Tones mineral during last Two-years period, as Applicable	2019-20 60000 T 2020-21 60000 T 2021-22 10500 T 2022-23 10500 T 2023-24 10500 T	41317.54 49864.03 Nil 100 T 200T	
3q	General remarks of inspecting officer on method of mining etc.	Mining is carried out at the lower benches, with low scale operation due to lack of demand. it is observed during inspection that, the mine has been developed haphazardly without formation of systematic and regular benches as envisaged in the RMP and having the bench height is of more than 08 meters and width is less than 06 meters. Violation of Rule 11(1) of MCDR 2017 issued.		

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Solid Waste Management-Dumping

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Nil	Nil	Mine is fully developed. There is no waste generation from the mine.
4b	Location of topsoil, OB & mineral reject dumps	No proposal	Nil	
4c	Number of Dumps within lease area and outside lease area	Not in proposal	Nil	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not in proposal	Nil	
4e	Number of Active & Alive dumps	Not in proposal	Nil	
4f	Number of dead dumps	None	None	
4g	Number of dumps established	Not in proposal	None	
4h	Whether Retaining wall or garland drain all along dumps are there	Not in proposal	Nil	
4i	Length of Retaining wall or garland drain all along dump	Not in proposal	Nil	
4j	Number of settling ponds	Not in proposal	Nil	
4k	Specific commends of inspecting officer on waste dump management	Mine is being worked depth wise. No waste generated.		

Solid Waste Management-Backfilling

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not in proposal	NA	Area is not matured for backfilling.
5b	Area under backfilling of mined out area	Not in proposal	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not in proposal	NA	
5d	Total area fully reclaimed & rehabilitated	Not in proposal, as the area is not matured for reclaimed & rehabilitated	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	No area is matured for backfilling and accordingly not proposed.		

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Progressive Mine Closer Plan

S.N	Item	Proposals (2023-24)	Actual Work (2023-24)	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	Yes	Not yet due for submission.	Due on 01 st July 2024.As the area was not matured for reclamation and rehabilitation no proposal was there and no work carried.
6b	Management of worked/mined out benches Area available for rehabilitation (Ha) Afforestation done (ha) No. of saplings planted during the year Cumulative no. of plants Any other specific method of rehabilitation Cost incurred on watch & care during the year	No proposal, as the area is not matured for reclaimed & rehabilitated	NA	Environmental parameters are within limit.
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	No proposal, as the area is not matured for reclaimed & rehabilitated	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	No proposal.	NA	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Proposal not given	NA	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Annual report on PMCP not yet due for submission for the year 2023-24. Report for the year 2022-23 submitted.		

Mineral Conservation

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Not in proposal	NA	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not in proposal	NA	
7c	Different grade of mineral sort out at mine	None	NA	

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- 7d Any beneficiation process at mines No proposal for beneficiation NA
- 7e General remarks of inspecting officer on Mineral conservation & beneficiation issues Beneficiation proposal not proposed in the RMP and not carried in the mines.

Environment

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not in proposal	NA	No top soil.
8b	Concurrent use or storage of topsoil	Not in proposal	NA	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not in proposal	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not in proposal	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	Not in proposal,	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not given	Annual report on PMCP not submitted	
8g	Survival rate	Not given	Annual report on PMCP not submitted	
8h	Water sprinkling on roads to control airborne dust.	Water sprinkling in Haul road proposed.	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Mine is working on depth wise.	Annual report on PMCP not submitted .	

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	M.R. Submitted during the period 2023-24 in time A.R. submitted up to- 2022-23.	Annual report not yet due for submission for

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			the year 2023-24
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer, Geologist and Manager appointed.	As per A.R. 2022-23.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under pit area: 1.175 ha, Roads, building: 0.050ha	As per A.R. 2022-23.
9d	Scrutiny of Annual return on afforestation	Nil	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	As per A.R. 2022-23.
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Opening Stock: 0.00 T, Production as per Return: 100 t. Closing stock: 28.5 T	As per A.R. 2022-23.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex Mine price: Rs 452.29 Cost of Production: Rs 418.10	
9i	Scrutiny of Annual return on Fixed assets	Fixed asset: Rs 87,59,356/-	
9k	Scrutiny of Annual return on mining Machineries	Type of Capacity of each Unit Machinery Dumper 20 Tonne Air 450.00CUM/MN Compressor Other HEM 2.10 CUM Loader Machinery	As per AR 2022-23 found in order.

Details of Violations observed during current inspection: -Violation of Rule 11(1) & 34A.(2) of MCDR, 2017 is pointed out during this inspection.

Date: 10.07.2024

(संजय कुमार महापात्र)
सहायक खान नियंत्रक