

MCDR INSPECTION REPORT

General

S.N.	Particulars	Details
1	File No.	CHG/RPR/LST-38CHG14023
2	Name of the Mine	Bitkuli Limestone Mine (1.457 ha)
3	Date of Inspection	23.09.2021
4	Name of Inspecting Officer	D. Dash, Senior Mining Geologist
5	Last date of Inspection & Officer	12/09/2019, Shri Rudra N. Mishra, Senior Mining Geologist
6	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.
7	Mine code	38CHG14023
8	IBM Registration Number under rule 45 of MCDR,2017	IBM/4989/2011
9	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
10	Village	Bitkuli
11	Taluka/Mandal	Simga
12	District	Balodabazar-Bhatapara
13	Pin code	493195
14	State	Chhattisgarh
15	Post Office	Suhela
16	Nearest Police Station	Suhela
17	Nearest Railway Station	Hathbandh
18	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)
19	Date of Execution	6/12/1996
20	Date of opening of Mine	01/05/2002
21	Date of First Renewal, if applicable and its period & expiry	06/12/2016 to 05/12/2046 (30 years)
22	Date of Second Renewal, if applicable and its period & expiry	N. A
23	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N. A
24	Name of the Nominated Owner with	Shri Khemlal Verma, Teacher's colony, Bajrang ward

	Address, phone, email, fax number and date of appointment	no-5, At& PO. -Tilda, -493114, District: Raipur, Chhattisgarh., Mobile: 9753152650 Email: khemlalverma45@gmail.com
25	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Not mentioned
26	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
27	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
28	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.
29	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.
30	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
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)	Category -A, Mechanized
34	Captive/Non-Captive	Non-Captive mine
35	Environmental Clearance	57000.00 Tone

Exploration

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
1a	Backlog of previous year	Nil	Nil	Upto 30m Depth 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. 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 has 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.		

Development

S. N.	Item	Proposals(2020-21)	Actual Work(2020-21)	Remarks
2a	Location of Development w.r.t. lease area	Between N100 to N300 and E 0 to W150.	As per proposal	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	proposed	As per proposal	
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. Mineral rejects has been reported as overburden in Annual return. During the inspection bottom benches were found water logged.		

Exploitation

S.N	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
3a	Number of pits proposed for production	01	01	Mineral rejects were
3b	Quantity of ROM mineral production proposed (2020-21) in	57000	49864	

	tonnes			proposed for temporary stacking on southern side of the lease on quarry.	
3c	Recovery of Salable/usable mineral from ROM production (in tonnes)	57000	49864		
3d	Quantity of mineral reject generation (in tones)	3000.00	1000		
3e	Grade of mineral reject generation and threshold value declared	CaO< 34% MgO> 4%	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	yes	yes	The area covered under excavation is on higher side. But, no violation pointed out since, the existing and proposed area of excavation is same as per approved plan for ongoing period.	
3m	Total area covered under excavation /pits	0.793	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	0.793 ha area proposed for excavation, 0.292 ha for waste dump, Roads: 0.048ha,	1.175 ha area under excavation, nil area for waste dump, Roads: 0.05 ha as on 01.04.2021 as per approved review of Mining Plan approved on 31.05.2021.		
3p	Production of ROM in Tones mineral during last Two-years period, as Applicable	2016-17	57000.00T		57339.00
		2017-18	57000.00T		44061.00
		2018-19	57000.00T	56966.66	
		2019-20	57000.00T	41317.54	
		2020-21	57000.00T	49864.03	
3q	General remarks of inspecting officer on method of mining etc.	Most of lease area is covered under single quarry and has limited scope for further development. The lower benches were found water logged on the day of inspection. De-watering is carried out on regular basis.			

		As per the lessee, the mining operations is on very low scale due to lack of market for the limestone from the lease.
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Solid Waste Management-Dumping

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	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 (2020-21)	Actual Work (2020-21)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not in proposal	NA	
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 (2020-21)	Actual Work (2020-21)	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	No	Violation Pointed out.
6b	Management of worked/mined out benches	No proposal, as the area is not matured for reclaimed & rehabilitated	NA	
	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			
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 submitted. Violation Pointed out.		

Mineral Conservation

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	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	
7d	Any beneficiation process at mines	No proposal for beneficiation	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Nil		

Environment

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not in proposal	NA	Mine working on depth wise
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	Annual report on PMCP not submitted
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	Violation pointed out
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 . Violation pointed out.		

Compliance of Rule 45

S. N.	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	M.R. Submitted during the period up to August, 2021.		Following information are furnished incorrectly in submitted Annual Return for the year 2020-2021: (i) Surface area utilization. (ii) Mineral reserves. Violation of Rule 45 (C) of MCDR, 2017 is pointed out. (ii) Mineral rejects generated has been cited as overburden.
		A.R. submitted up to- 2020-21		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Notice of appointment are not furnished.		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under pit area: 0.985 ha, Roads: 0.048ha, occupied by building: 0.048ha plantation: 0.370ha		
9d	Scrutiny of Annual return on afforestation	Within Lease: 200 nos, survival rate: 95%		
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	1000 tonnes		
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Opening Stock: 0.00 T, Production as per Return: 49864.54 t. Closing stock: nil		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex Mine price: Rs 440.00 Cost of Production: Rs 440		
9i	Scrutiny of Annual return on Fixed assets	Fixed asset: Rs 195000.		
9k	Scrutiny of Annual return on mining Machineries	Type of Machinery	Capacity of each Unit	
		Tipper	16.00 CUM	8
		Air Compressor	450.00CUM/MN	2
		Other HEM Machinery	2.410	2

Details of Violations observed during current inspection: -

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा
26 (2)	A yearly report as per the format specified by Indian Bureau of Mines, before 1st day of July every year setting forth the extent of protective and rehabilitate works carried out has not been submitted for the year 2020-21.
45(5) (c)	Following information are furnished incorrectly in submitted Annual Return for the year 2020-2021: (i) Surface area utilization. (ii) Mineral reserves (iii) Mineral rejects generated has been cited as overburden

Violation of Rule 35(4) of MCDR, 2017 is pointed out by Shri R.K.Das, Sr.ACOM vide this office letter dated 15.06.2021. No response has been received from the lessee. During the previous inspection, violation of Rule 11(1) and 45 (5) (C) of MCDR, 2017 was pointed out by Shri Rudra Narayan Mishra, SMG vide this office letter dated 20.12.2019. Steps have been undertaken for compliance of violation of Rule 11(1) and 45(5) (c). However, no action has been taken for rectification of violation of Rule 26(2) of MCDR, 2017. Star rating template submitted for the year 2020-21 was examined and after validation, rating is 3 star. Thus no violation is pointed out for star rating.

Date: 01.10.2021

(D.Dash)
Senior Mining Geologist