

MCDR INSPECTION REPORT 2020-21

General:

S.N.	Particulars	Details
1	Name of the Mine	Pitora Limestone Mine (1.99 ha)
2	Date of Inspection:	13/11/2021
3	Name of Inspecting Officer	Prasant Kumar Sahu, Asst. Mining Engineer
4	Name of official accompanying inspection	Shri B. L. Ramani, Authorised Signatory
5	Last date of Inspection & Officer	08.08.2019 & Shri Rudra N. Mishra (SMG)
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non-forest land : 1.99 Ha, Forest Land: Nil. Total : 1.99 Ha
7	Mine code	38CHG05026
8	IBM Registration Number under rule 45 of MCDR,1988	IBM/11310/2012
9	Name of the Lease, Address, Phone, email and fax number	Shri Tikendra Chandrakar, Kabir Nagar, Ward No-21, Village-Kukda, Teshsil-Patan, District-Durg, Chhattisgarh, Pin Code-490042 Email-blramani7@gmail.com Phone No-8839327409
10	Village	Pitora
11	Taluka/Mandal	Dhamda
12	District	Durg
13	Pin code	490036
14	State	Chhattisgarh
15	Post Office	Nandini Khundni
16	Nearest Police Station	Nandini Nagar
17	Nearest Railway Station	Bhilai
18	Date of Grant of Mining Lease	26/11/1985 to 25/11/1995 for 10 years
19	Date of Execution	26/11/1995
20	Weekly day of rest	Sunday
21	Date of opening of Mine	22/12/1995
22	Date of First Renewal, if applicable and its period & expiry	26/11/1995 to 25/11/2015 for 20 years
23	Date of Second Renewal, if applicable and its period & expiry	26/11/2015 to 25/11/2035 for 20 years
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Tikendra Chandrakar, Kabir Nagar, Ward No-21, Village-Kukda, Teshsil-Patan, District-Durg, Chhattisgarh, Pin Code-490042 Email-blramani7@gmail.com Phone No-8839327409
26	Name of the Mine Agent with Address, phone,	Not appointed

	email, fax number and date of appointment	
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Not appointed
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Not appointed
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Not appointed
30	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	1. Mining Plan approved vide letter no. DRG/LST/MPLN-481/NGP Nagpur dated 04/07/1995, Proposal Period: 1995-96 to 1999-2000 2. Modified Mining Plan approved vide letter no. DRG/LST/MPLN-1108/2017-RPR dated 01/09/2017, Proposal Period: 2016-17 to 2020-21
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	1. Scheme of Mining approved vide letter no. DRG/LST/MPLN-481/NGP dated 29.08.2013, Proposal Period: 2011-12 to 2015-16 2. Review of Mining Plan approved vide letter no. DRG/LST/MPLN-1276/2021-RAIPUR dated 20.05.2021, Proposal Period: 2021-22 to 2025-26
32	Mineral(s) granted in lease and approved for Mining	Limestone
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanized, Others or Manual)	Category-B, Manual
35	Captive/Non-Captive	Non-Captive
36	Present EC Status	10000 Tonne Per Year, EC granted on 11/02/2019
37	Status of Financial Assurance	BG No-0732IGF001267821 dated 13.05.2021, Amount- Rs.5,00,000/- Valid upto 31.03.2026

Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:

1.0 Exploration:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
1a	Backlog of previous year Proposals	Nil	Nil	No Exploration
1b	Exploration over lease area for Geological axis 1 or 2.	G1-1.99 ha	G1-1.99 ha	Entire lease area of 1.99 ha explored in G1 category from 286 to 274 mRL (12 mt.) through development of quarry
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	No Proposal	Not Applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	NIL	Not Applicable	Entire lease area of 1.99 ha explored in G1 category

1e	Balance reserves as on 01.04.2021	Under 111 : 91205 tonne Under 211: 144250 tonne	Violation pointed out for incorrect information furnished in part-V of AR.
1f	General remarks of Inspecting officer on geology, exploration etc.	The Pitora Limestone deposit mine belongs to Pendri/Deodonagar member of Chandi formation constituting "Raipur Group" of Chhattisgarh Supergroup. The entire lease area of 1.99 ha explored in G1 category from 286 to 274 mRL (12 mt.) through development of quarry.	

2.0 Development:

S.N	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
2a	Location of Development w.r.t. lease area	E-20 to W-120 N-80 to N-165	E-20 to W-120 N-80 to N-165	As per proposal
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in OB and Mineral proposed	Separate benches maintained in OB and Mineral	1. Current working restricted to ore body. 2. Two nos. benches in mineral zone.
2c	Stripping ratio or ore to OB ratio	1:02	1:00	No OB/Waste generated
2d	Quantity of topsoil generation in m ³	No Proposal	Nil	No topsoil generated during the plan period.
2e	Quantity of overburden generation in m ³	No Proposal	Nil	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	The actual development is less in comparison to proposal for lack of market demand. Quarry development is within the proposed area.		

3.0 Exploitation:

S.N	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
3a	Number of pits proposed for production	01	Working in 01 (one) pit only	As per proposal
3b	Quantity of ROM mineral production proposed	10000 tonne	1080 tonne	Within the proposal limit and less production due to lack of market demand
3c	Recovery of Salable/usable mineral from ROM production	100 %	100 %	No generation of OB/MR
3d	Quantity of mineral reject generation	200	Nil	No generation of mineral rejects
3e	Grade of mineral reject generation and threshold value declared	No Proposal	Not Applicable	Nil
3f	Quantity of sub-grade mineral	No Proposal	Not Applicable	Nil

	generation			
3g	Grade of sub-grade mineral generation	No Proposal	Not Applicable	Nil
3h	Manual/Mechanized method adopted for segregation from ROM	Manual method proposed	Manual method adopted	Done as proposed
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study proposed	No such study carried out	Not required for limestone mineral
3j	Provision of drilling & blasting in mineral benches	Light shallow drilling and blasting proposed	Light shallow drilling and blasting carried out	ANFO and ready mixed slurry explosive used for blasting
3k	Provision of mining machineries in mineral benches	No proposal for mining machineries	Manual open cast mining adopted	Done as proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height in ore 8 mt. (4 benches of 2 mt. each)	Average bench height and width maintained	Done as proposed
3m	Total area covered under excavation /pits	1.211 ha	1.2 ha	As per proposal
3n	Ore to OB ratio for the pit/mine during the year	1:02	1:00	No generation of waste
3o	Total area put in use under different heads at the end of year	Pit-1.211 ha Dump-0.091 ha Infra/road-0.084 ha	Pit-1.2 ha Dump-0.0150 ha Infra/road-0.0500 ha	Workings within proposed area
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	2016-17: No proposal due to lapsed period 2017-18: 10000 T 2018-19: 10000 T 2019-20: 10000 T 2020-21: 10000 T	2016-17: 0.00 T 2017-18: 0.00 T 2018-19: 420.00 T 2019-20: 120.00 T 2020-21: 1080.00 T	Actual production within proposed limit
3q	General remarks of inspecting officer on method of mining etc	Mining operation is in low scale. The production is less in comparison to proposal due to lack of market demand.		

4.0 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)	No proposal	Nil	No top soil and OB generated during the year
4b	Location of topsoil, OB & mineral	No proposal	Nil	

	reject dumps			
4c	Number of Dumps within lease area and outside lease area	No proposal	Nil	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	
4e	Number of Active & Alive dumps	No proposal	Nil	
4f	Number of dead dumps	No proposal	Nil	
4g	Number of dumps established	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific commends of inspecting officer on waste dump management	No top soil and OB generated during the year.		

5.0 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	No proposal	Not applicable	Area is not matured for back filling
5b	Area under backfilling of mined out area	No proposal	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Not applicable	
5d	Total area fully reclaimed & rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No proposal for back filling and reclamation in the plan period as the area is not matured for backfilling.		

6.0 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 26 (2). Details should be given in the format as given in Annexure-20	PMCP report to be submitted	PMCP report not submitted	Violation of Rule 26 (2) of MCDR, 2017 is pointed out
6b	Management of worked/mined out benches	No proposal	Nil	No area is mined out
	Area available for rehabilitation (Ha)	No proposal	Nil	
	Afforestation done (ha)	0.012	0.012	
	No. of saplings planted during the year	120	350	Survival rate is less than 5%
	Cumulative no. of plants	No proposal	Nil	

	Any other specific method of rehabilitation	No proposal	Nil	
	Cost incurred on watch & care during the year	No proposal	Nil	
6c	Compliance on reclamation and rehabilitation by backfilling Voids available for backfilling (L*B*D) Void filled by waste/tailings Afforestation on the backfilling Rehabilitation by making water reservoir Any other specific means	No proposal	Nil	No area is matured for backfilling
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	No proposal	Nil	No waste dump within the lease area
6e	Compliance of Environment monitoring (core zone & buffer zone)	Proposed environmental monitoring in core and buffer zone	Environmental monitoring is carried out	Done as proposed
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	PMCP report for this financial not submitted. Violation of Rule 26 (2) of MCDR, 2017 is pointed out.		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Yes	Approximately 98% of ROM was considered as salable ore	Approximately 2% mining losses
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No Proposal	Not done	Not required for Limestone
7c	Different grade of mineral sort out at mine	No proposal	Nil	Not required
7d	Any beneficiation process at mines	No proposal	Nil	Not required
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is only bendable grade of limestone available and approximately 98% of ROM was considered as salable ore.		

8.0 Environment:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	No proposal	Nil	Top soil is not encountered at this stage and working

				is in ore zone only
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Southern part of lease	Nil	No waste encountered
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	No area is matured for reclamation.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	120 nos. saplings will be planted during 2020-21	Within lease area-350	As per AR
8g	Survival rate	Not mentioned in the approved document.	Within lease area-10%	As per AR-10%
8h	Water sprinkling on roads to control airborne dust	Yes	Water tanker deployed to control airborne dust	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Top soil and OB not encountered at this stage and mine area is not matured for reclamation and rehabilitation.		

9.0 Compliance of Rule 45:

S N	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	MR submitted up to Dec-2021		
		AR submitted up to 2020-21		
S N	Item	Details Given in A.R.	Observation of I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not appointed	Violation pointed out	During inspection Mining Engineer and Geologist not present
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit 1.2 ha Infra/roads-0.02	Workings within proposed area	Appears to be correct
9d	Scrutiny of Annual return on afforestation	Within lease area-350	Survival rate is less than 5%	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	No mineral reject has been Generated during	No rejects found in the mine	Not envisaged in approved document

		F.Y. 2020-21		
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Opening-540 T Production-1080 T Closing-1620 T	Stock is reportedly stacked on quarry bottom.	The quarry is water lodged and stock position could not be ascertained.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Nil dispatch of mineral in the financial year	Production stacked in the lease area	No market for the mineral produced.
9i	Scrutiny of Annual return on Fixed assets	Rs. 10000000/-	As per estimated market value.	Appears to be correct
9k	Scrutiny of Annual return on mining Machineries	Electric motor of 30 H.P	Observed in mine	Used for pumping of water from pit.

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

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26(2)	A yearly report as per the format specified by the Indian Bureau of Mines, before 1 st day of July every year setting forth the extent of protective and rehabilitative works carried out as envisaged in the approved mine closure plan has not been submitted for the year 2020-21.
45(5)(c)	In annual return for financial year 2020-21 following discrepancies are observed; i. At part-V (General Geology & Mining), updated reserves and resources at the end of the year are furnished incorrectly.
55	Part time Mining Engineer and Geologist have not been appointed.

Date of previous inspection by Shri Rudra Narayan Mihsra, Senior Mining Geologist on 08.08.2019, violation of Rule 11(1), 26 (2), 45(5)(C) and 55 of MCDR, 2017 were pointed out. The violations have been rectified.

Date: 16/02/2022

Name: Prasant Kumar Sahu
Designation: Assistant Mining Engineer