

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of inspecting office & designation	S. Kartikeya, Jr. Mining Geologist, Indian Bureau of Mines, Raipur
2	Date of inspection	13/04/2018
3	Name of the Mine	Nandini Khundini Limestone Mine
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	4.55 Ha (Non- Forest)
5	Mine Code	38MPR13024
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/5674/2011
7	Name of the lessee, Address, phone, email and fax number	Smt. Mohini Devi Mishra W/o Shri T. R. Mishra, 48/3, Nehru Nagar (East), Bhilai, District – Durg – 490020 Phone No. 9425237021 Fax: Not available Email: mdmlimestonemines@gmail.com
8	Village	Nadini Khundini
8	Taluka / Mandal / District	Taluka: Dhamdha, District: Durg
10	State	Chhattisgarh
11	Post office & PIN	Nandini Khundini – 490036
12	Nearest police station	Nandini Nagar
13	Nearest Railway station	Durg
14	Date of Grant of Mining Lease	14/06/1993 to 13/06/2013 (20 Years)
15	Date of Execution	01/08/1993
16	Date of opening of Mine	01/08/1993
17	Date of first Renewal, if applicable and its period & expiry	As per MMDR Amendment Act, 2015 section 8A Validity of the lease period: 14/06/2013 to 13/06/2043 (30 Years) Supplementary lease deed has not been made for extended period.
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	12/01/2012
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Not appointed.
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Not appointed.

22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Not appointed.
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Not appointed. Deviation has been pointed out.
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Not appointed. Deviation has been pointed out.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan approved vide letter no. DRG/LST/MPLN-07/NGP Nagpur dated 14/01/1990 Proposal Period: 1993-94 to 1997-1998 Mining Plan (For renewal of Mining Lease) approved vide letter no. DRG/LST/MPLN-07/NGP Nagpur dated 14/06/2013 Proposal Period: 2013-14 to 2017-2018
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	1st Scheme of Mining (Not submitted) Lapse Period: 1998-99 to 2002-03 2nd Scheme of Mining (Not Submitted) Lapse period: 2003-04 to 2007-08 3rd Scheme of Mining approved vide letter DRG/LST/MPLN-07/NGP Nagpur dated 05/05/2009 Proposal Period: 2008-09 to 2012-13
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Category 'A' Mechanised
30	Captive/Non Captive	Non-Captive
31	Existing EC Limit and validity	Not obtained
32	Status of Financial Assurance	FA difference for the previous scheme period has not been submitted. Deviation has been pointed out.

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2013-14: 02 nos. of boreholes with cumulative depth 20 m	2017-18: 03 no. of borehole With cumulative depth 20 m	Inappropriate exploration was done. None of the borehole samples have been analysed from the NABL

				accredited test laboratory.
1b	Exploration over lease area for Geological axis 1 or 2.	Under G1 Category: NIL Ha Under G2 category: 4.55 Ha	Under G1 Category: NIL Ha Under G2 category: 4.55 Ha	Inappropriate exploration was done. None of the borehole samples have been analysed in the NABL accredited test laboratory.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not mentioned in the approved document.	Not applicable.	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Under G1 Category: 4.55 Ha	Under G2 category: 4.55 Ha	Inappropriate exploration was done during last scheme period.
1e	Balance reserves as on 01.04.2018	Under (122): 0.200 Million Tonnes Under (222): 0.216 Million Tonnes Under (333): 0.285 Million Tonnes	Under (122): 0.229 Million Tonnes Under (222): 0.216 Million Tonnes Under (333): 0.285 Million Tonnes	Production quantity during F.Y. 2017-18 has been taken from the online submitted Monthly returns
1f	General remarks of inspecting officer on geology, exploration etc.	Inappropriate exploration was done during last scheme period. A detailed exploration is required in this area. Mine was temporarily closed due to non-availability of the Environmental Clearance (EC) since May 2017.		

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	North-Central, Eastern Side and Central Part of the lease area	Production and development was done all over the quarry in irregular and un-scientific manner	Deviation has been pointed out.
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Top Soil: 01 no. Mineral: 02 nos.	Production and development was done all over the quarry in irregular and un-scientific	-

			manner	
2c	Stripping ratio or ore to OB ratio	0.0:1.0	Could not be ascertained as no record has been maintained.	Deviation has been pointed out.
2d	Quantity of topsoil generation in m3	Not mentioned in the approved document	Could not be ascertained as no record has been maintained.	Deviation has been pointed out.
2e	Quantity of overburden generation in m3	Development was proposed in the working quarry	Could not be ascertained as no record has been maintained.	Deviation has been pointed out
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Mine is temporarily closed due to non-availability of the Environmental Clearance (EC) since May 2017.		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01 no.	01 no.	-
3b	Quantity of ROM mineral production proposed	2016-17: 32250 Metric Tonnes 2017-18: 39750 Metric Tonnes	2016-17: 22500 Metric Tonnes 2017-18: 1875 Metric Tonnes	-
3c	Recovery of salable/usable mineral from ROM production	100%	Could not be ascertained as no record has been maintained.	-
3d	Quantity of mineral reject generation	Not mentioned in the approved document	Not applicable	-
3e	Grade of mineral reject generation and threshold value declared	Not mentioned in the approved document	Not applicable	-
3f	Quantity of sub-grade mineral generation	Not mentioned in the approved document	Not applicable	-
3g	Grade of sub-grade mineral generation	Not mentioned in the approved document	Not applicable	--
3h	Manual / Mechanised method adopted for segregating from ROM	Dry crushing and screening	Dry crushing and screening	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed in the approved document	Not Applicable.	-

3j	Provision of drilling & blasting in mineral benches	Dia: 32 mm Depth: 1.5 m Spacing: 1.0 m Burden: 0.8 m	Could not be ascertained as Mine was temporarily closed due to non-availability of the Environmental Clearance (EC) since May 2017.	-
3k	Provision of mining machineries in mineral benches	<ol style="list-style-type: none"> 1. Jack Hammer 03 nos., 32 mm 2. Shovel 01 no., 0.9 m³ bucket 3. Dumper 03 nos., 10 Tonnes 4. Water Tanker 01 no., 1000 Litres 5. Water pump 01 no., 5 HP 6. Crushing and Screening Plant 01 unit 	Could not be ascertained as no record has been maintained.	Deviation has been pointed out
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Mineral: 03-05 Meters	Development was done all over the quarry in irregular and un-scientific manner	-
3m	Total area covered under excavation/pits	3.65 Ha. during scheme period.	4.55 ha during last scheme period	The entire lease area has been covered under excavation
3n	Ore to OB ratio for the pit/mine during the year	0.0:1.0	Could not be ascertained as no record has been maintained.	Deviation has been pointed out.
3o	Total area put in use under different heads at the end of year	Pit- 3.65 Ha Waste/reject- 0.0 Ha Others- 0.388 Ha	Pit- 4.55 Ha Waste/reject- 0.0 Ha Others- 0.0 Ha	Deviation has been pointed out.
3p	Production of ROM mineral during last five-year period, as applicable	Yr- 2013-14: 22500.00 Metric Tonnes Yr- 2014-15: 22500.00 Metric Tonnes Yr- 2015-16: 24750.00 Metric Tonnes Yr- 2016-17: 32250.00 Metric	Yr- 2013-14: 49900.834 Metric Tonnes Yr- 2014-15: 23052.490 Metric Tonnes Yr- 2015-16: 15525.00 Metric Tonnes Yr- 2016-17: 22500.00 Metric	Excess production during 2013-14 and 2014-15 has been pointed out.

		Tonnes Yr- 2017-18: 39750.00 Metric Tonnes	Tonnes Yr- 2017-18: 1875.00 Metric Tonnes	
3q	General remarks of inspecting officer on method of mining etc.	Excess production during 2013-14 and 2014-15 has been pointed out. At some places development was been done outside lease area, and the same area has been backfilled with the waste and top soil. Mining at 7.5 m barrier zone has been observed. Deviation has been pointed out.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Not proposed in the approved document. The proposed working will be confined within the working pit.	Development and excavation was observed all along the lease boundary, and most of places 7.5m barrier zone has been mined out.	Deviation has been pointed out.
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Not proposed in the approved document. The proposed working will be confined within the working pit.	Development and excavation was observed all along the lease boundary, and most of places 7.5m barrier zone has been mined out.	Deviation has been pointed out.
4c	Number of dumps within lease area and outside lease area	No generation of waste and sub-grade	Waste and sub-grade ore was not found within lease area	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Beyond ultimate pit limit	No dump observed within lease area	-
4e	Number of active & alive dumps	The proposed working will be confined within the working pit.	No dump observed within lease area	-
4f	Number of dead dumps	Not mentioned in the approved document	There is no dead dump within lease area.	-
4g	Number of dumps stabilised	Not proposed in the approved document	Not applicable	-
4h	Whether Retaining wall or garland drain all along dumps are there	Garland drain will be made to prevent wash off water and mine water	Not constructed.	Deviation has been pointed out.
4i	Length of Retaining wall or garland drain all along dump	Not proposed in the approved document	Not applicable	-

4j	Number of settling ponds	Not proposed in the approved document	Not applicable	
4k	Specific comments of inspecting officer	Development and excavation was observed all along the lease boundary, and most of places 7.5m barrier zone has been mined out		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No reclamation and rehabilitation is required, since the mining operation will be carried out up to the economic depth.	Area not matured for reclamation and rehabilitation.	-
5b	Area under backfilling of mined out area	No reclamation and rehabilitation is required, since the mining operation will be carried out up to the economic depth.	Area not matured for reclamation and rehabilitation.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	The proposed working will be confined within the working pit.	Not applicable	-
5d	Total area fully reclaimed & rehabilitated	Area not matured for reclamation and rehabilitation.	Area not matured for reclamation and rehabilitation.	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	It was found that at some places development has been done outside lease area, and the same area has been backfilled with the waste and top soil. Deviation has been pointed out.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. Details should be given in the format as given in Annexure-20.	Submitted	Information furnished in the report does not matching with ground reality.	-
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific	0.12 Ha. 120 nos. Not mentioned in the document Not mentioned in the document NI	Not done Not done Not applicable Not applicable NIL	Deviation has been pointed out.

	method of rehabilitation vi) Cost incurred on watch & care during the year	Rs. 1200/-	NIL	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	Area not matured for reclamation and rehabilitation.	Not applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	120 nos. 0.12 Ha. Not proposed	Not done Not done	Deviation has been pointed out.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed to carry out	Not done.	Deviation has been pointed out.
6f	General remarks of inspecting officer on PMCP compliance & progressive	Non compliance of Compliance of Environmental monitoring and Plantation has been mentioned in the violation letter.		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Mechanised crushing and screening.	Mechanised crushing and screening.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised crushing and screening.	Mechanised crushing and screening.	-
7c	Different grade of mineral sorted out at mines	Mechanised crushing and screening.	Mechanised crushing and screening.	-
7d	Any beneficiation process at mines	Not proposed in the approved document	Not applicable	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mine was temporarily closed due to non-availability of the Environmental Clearance (EC) since May 2017.		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	The present working will be confined within the working pit and top soil will be generated during scheme period.	Not applicable	-
8b	Concurrent use or storage of topsoil	The present working will be confined within the working pit and top soil will be generated during scheme period.	Not applicable	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	No sub grade, waste material and mineral reject are generated during scheme period.	Not applicable	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No overburden, waste, rejects and fines will be generated.	Not applicable	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Area not matured for reclamation and rehabilitation.	Not applicable	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	There was a proposal for plantation of 120 nos of sapling during scheme period	Not done	Deviation has been pointed out.
8g	Survival rate	Not mentioned in the approved document	Not applicable	-
8h	Water sprinkling on roads to control airborne dust	Water sprinkling through water tanker.	Mine is temporarily closed due to non-availability of the EC since May 2017.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Mine is temporarily closed due to non-availability of the Environmental Clearance (EC) since May 2017.		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – February 2018 A.R. submitted upto- F.Y. 2016-17	NIL

S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engg: Shri Onkar Prasad Kushwaha Geologist: Shri Santosh Kumar Funde Manager: Not appointed	Mining Engineer and Geologist are not appointed.	Deviation has been pointed out
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 3.650 Ha Waste/reject- 0.0 Ha Others- 0.343 Ha	Pit- 4.55 Ha Waste/reject- 0.0 Ha Others- 0.0 Ha	Deviation has been pointed out
9d	Scrutiny of Annual return on afforestation	Within lease area: 250 nos. Outside lease Area: 125 nos.	Not done	Deviation has been pointed out
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No mineral reject generated	Not applicable.	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Closing Stock: 6526.060 Metric Tonnes (As per monthly returns of Feb 2018)	Far less than the mentioned quantity.	Deviation has been pointed out
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: Rs. 6333040/- Ex-Mine price: Rs. 350 Per Metric Tonne Production Cost: Rs. 292.60 Per Metric Tonne	Sale Value: Rs. 6333040/- Ex-Mine price: Rs. 350 Per Metric Tonne Production Cost: Rs. 292.60 Per Metric Tonne	NIL
9i	Scrutiny of Annual return on fixed assets	Rs. 0/-	Rs. 0/-	NIL
9k	Scrutiny of Annual return on mining machineries	Given	Could not be ascertained as no record has been maintained.	Deviation has been pointed out.

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

Rule 27(2) of MCDR 2018

Date of Last Inspection, Name and Designation of the Inspecting Officer:

Last Inspecting Officer: Shri Rudra Narayan Mishra, Senior Mining Geologist

Date of Inspection: 08/03/2018

Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का विस्तृत ब्योरा
Rule 11 (1)	The following deviations have been found in the mine from the approved Renewal of Mining Plan vide letter no. DRG/LST/MPLN-07/NGP Nagpur dated 14/06/2013 for the period of 2013-14 to 2017-18: Boundary Pillars: Boundary Pillars are not been constructed and maintained as per specification mentioned in MCR, 2016. Development: (i) In the approved Renewal of Mining Plan, there was a proposal given for the production of mineral during the plan period from North-Central, Eastern Side and Central Part of the lease area. Whereas, production and development was done all over the quarry in irregular and un-scientific manner. (ii) It was found that at some places development was been done outside lease area, and the same area has been backfilled with the waste and top soil. (iii) Proposal of Mineral production for 2013-14: 22,500 Metric Tonnes; Achieved 49,900.834 Metric Tonnes, over production during this financial year. (iv) No such proposal has been given in the earlier approved MP/MMP/SOM/RMP for mining at 7.5 m barrier zone. Development and excavation was observed all along the lease boundary, and most of places 7.5m barrier zone has been mined out. Afforestation: There was a proposal given for plantation of 120 nos of plants during 2013-14, whereas none of the plantations have been done. Environmental Monitoring: There was a proposal given for Environmental Monitoring (Ambient Air Quality, Water Quality and Noise Level Survey). The same has not been conducted.
Rule 19 (1), (2) & (3)	Log book of heavy earth moving machinery used in the mines is not been maintained and made available during inspection.
Rule 26 (2)	A yearly report as per the format specified by the Indian Bureau of Mines, before 1st day of July every year setting forth the extent of protective and rehabilitative works carried out has not been submitted for the year 2015-16 and 2016-17.
नियम संख्या 27 (2)	पहले से प्रस्तुत वित्तीय आश्वासन और खनिज संरक्षण एवं विकास नियमावली 2017 की अधिसूचना की तारीख को बकाया वित्तीय आश्वासन के बीच के अंतर के बराबर की राशि प्राधिकृत अधिकारी को यथास्थिति, अधिसूचना की तारीख (27 फरवरी 2017) से 90 दिनों की अवधि के भीतर प्रस्तुत की जानी चाहिए, जो कि आज दिनांक तक प्राधिकृत अधिकारी को प्रस्तुत नहीं की गई है।
Rule 28 (1)	Notice of Temporary Discontinuance has not been sent to the authorized officer within one hundred and twenty days from the date of such discontinuance as the the mine was non operational from May 2017.
Rule 33	Updated print copy of the surface geological plan and sections has not been submitted before 30th day of June for the year 2016-17.
Rule 45 (5) (b)	मासिक विवरणियाँ : खान की माह मार्च 2018 की मासिक विवरणीयां ऑनलाइन नहीं भरी गई है एवं विवरणियों की प्रति क्षेत्रीय खान नियंत्रक, रायपुर को प्रेषित नहीं की गई है। नियमानुसार मासिक विवरणियाँ संबंधित माह के समाप्ति के 10 दिन के भीतर www.ibm.gov.in पर ऑनलाइन भर कर एक प्रति इस कार्यालय को प्रेषित की जानी चाहिए।
Rule 45 (7)	Closing stock of 6526.060 Metric Tonnes of Limestone has been mentioned in the monthly return; during inspection it was found to be far less than the mentioned quantity.
Rule 48 (1)	Borehole records in prescribed form J have not been maintained properly. NABL accredited test reports of major radicals have not been mentioned.
Rule 54	Labour attendance register, contribution of DMF & NEMT have not been maintained.
Rule 55	Whole-time Mining Engineer and a Geologist are not been appointed.

(Name of the Inspecting Officer and Designation and Date)

**Shaival Kartikeya
Jr. Mining Geologist
Indian Bureau of Mines, Raipur
Date of Inspection: 13/04/2018**