

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of inspecting officer & designation	S. Kartikeya Jr. Mining Geologist
2	Date of inspection	31/05/2017
3	Name of the Mine	Nandini Khundini Limestone Mine
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	2.96 Ha
5	Mine Code	38 MPR 13040
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/5273/2011
7	Name of the lessee, Address, phone, email and fax number	Shri Nand Kumar Kumbhkar Email: nkmineral@gmail.com Phone: 0788-2320822 / 09329028281
8	Village	Nandini Khundini
8	Taluka / Mandal / District	Dhamdha
10	State	Chhattisgarh
11	Post office & PIN	Nandini Nagar Pincode: 490036
12	Nearest police station	Nandini Nagar
13	Nearest Railway station	Durg
14	Date of Grant of Mining Lease	04/03/1998 to 03/03/2018 (20 Years) 04/03/2018 to 03/03/2048 (30 Years as per MMDR Act, 2015; Supplementary agreement has made for extended lease period)
15	Date of Execution	04/03/1998
16	Date of opening of Mine	04/03/1998
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Nand Kumar Kumbhkar C/O Shri C. L. Kumbhkar Village & Post Pisegaon Tehsil & District Durg – 491001 Email: nkmineral@gmail.com Phone: 0788-2320822 / 09329028281

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	NIL (Not Appointed)
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	NIL (Not Appointed)
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	NIL (Not Appointed)
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57 of MCDR, 2017.	NIL (Not Appointed)
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-554/NGP Dated 12/05/1997 Period: 1998-99 to 2002-2003
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 Period: 2003-04 to 2007-08 2nd Scheme of Mining Approved vide letter no DRG/LST/MPLN-554/NGP Dated 03/04/2009 Period: 2008-09 to 2013-14 3rd Scheme of Mining Approved vide letter no DRG/LST/MPLN-554/NGP Dated 05/09/2013 Period: 2013-14 to 2017-18
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

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	NIL		
1b	Exploration over lease area for Geological axis 1 or 2.	02 Boreholes	NIL	Not Achieved
1c	Exploration Agency & Expenditure in lakh Rupees	NIL	NIL	

	during the year			
1d	Balance area to be explored to bring Geological axis in 1 or 2	2.96 Ha under G1 Axis	NIL	
1e	Balance reserves as on 01.04.2017	122: 2,77,031 Metric Tonnes 222: 5,63,474 Metric Tonnes	122: 3,00,466 Metric Tonnes 222: 5,63,474 Metric Tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	No Exploratory drilling was carried out during the period of Mining Plan and Scheme of Mining.		

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Proposal for developing 4 nos. and 5 nos of benches respectively at 3m height interval in the Northern and North-western part of the lease area as well as central part of the lease area	at present mining is being carried out in the South-western part of the lease area	Deviation was found in the given proposal.
2b	Separate benches in topsoil, overburden and mineral (Rule 13 of MCDR, 2017)	NIL	NII	
2c	Stripping ratio or ore to OB ratio	1: 00		
2d	Quantity of topsoil generation in m3	NIL	Stacking is being done outside lease area	Stacking is being done outside lease area
2e	Quantity of overburden generation in m3	NIL	Stacking is being done outside lease area	Stacking is being done outside lease area
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Stacking of Waste and Top Soil are being done outside lease area		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	2016-17; 34,500 Metric Tonnes	36,000 Metric Tonnes	Over production during 2016-17 was found
3c	Recovery of salable/usable mineral from ROM production	98%	NA	2% mining/handling loss
3d	Quantity of mineral reject generation	2016-17: 690 Metric Tonnes	NA	
3e	Grade of mineral reject generation and threshold value declared	NIL	NIL	
3f	Quantity of sub-grade mineral generation	NIL	NIL	
3g	Grade of sub-grade mineral generation	NIL	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NIL	NIL	
3j	Provision of drilling & blasting in mineral benches	32 mm dia	Mechanised	
3k	Provision of mining machineries in mineral benches	01 Dozer 02 Hydraulic Shovel/Excavator/loader 02 Dumper/small body tripper 02 Jack Hammer (32mm dia) 02 Compressor (Tractor mounted) 01 Water tanker 01 Water pump 01 Jeep	01 Hydraulic Shovel/Excavator/loader 01 Water pump	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NIL	NIL	
3m	Total area covered under excavation/pits	2016-17: 4600 square meter	Almost 90-95% lease area covered under development	Updated plan and section not submitted

				to the competent authority
3n	Ore to OB ratio for the pit/mine during the year	2016-17 :- 1:00	1: 00	
3o	Total area put in use under different heads at the end of year	Pit- 2.0110 ha Waste/reject- 0.120 ha Others- 0.829 ha	Pit- 2.0110 ha Waste/reject- 0.00 ha Others- 0.00 ha	Stacking of Mineral reject and top soil are being done outside lease area
3p	Production of ROM mineral during last five-year period, as applicable Yr-2012-13: Yr-2013-14: Yr-2014-15: Yr-2015-16: Yr-2016-17:	24,500 Metric Tonnes 29,625 Metric Tonnes 28,350 Metric Tonnes 35,250 Metric Tonnes 34,500 Metric Tonnes	21,500 Metric Tonnes 21,500 Metric Tonnes 20,590 Metric Tonnes 26,200 Metric Tonnes 36,000 Metric Tonnes	Over production during 2016-17 was found
3q	General remarks of inspecting officer on method of mining etc.	Most of places 7.5m barrier zone has been mined out without proposal.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37 of MCDR, 2017)	NIL	Stacking is being done outside lease area without proposal	Stacking is being done outside lease area
4b	Location of topsoil, OB & mineral reject dumps	0.120 ha area within lease area	Stacking is being done outside lease area without proposal	Stacking is being done outside lease area
4c	Number of dumps within lease area and outside lease area	One	Stacking is being done outside lease area without proposal	Stacking is being done outside lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14 of MCDR, 2017)	Southern part of the lease area	Stacking is being done outside lease area without proposal	Stacking is being done outside lease area
4e	Number of active & alive	NIL	Stacking is being	Stacking

	dumps		done outside lease area	is being done outside lease area
4f	Number of dead dumps	NIL	NIL	
4g	Number of dumps stabilised	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there	NIL	NIL	
4i	Length of Retaining wall or garland drain all along dump	NIL	NIL	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer	Stacking of Waste/Mineral Reject and Top Soil are being done outside lease area		

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	NIL	NIL	
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36 of MCDR, 2017)	NIL	Stacking is being done outside lease area	Stacking is being done outside lease area
5d	Total area fully reclaimed & rehabilitated	NIL	NIL	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Stacking of Waste/Mineral Reject and Top Soil are being done outside lease area		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2) of MCDR, 2017. Details should be given in the format as given in Annexure-20.	Annual report not submitted	NIL	Deviation observed

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 method of rehabilitation vi) Cost incurred on watch & care during the year	NIL 45 nos. every year 180 nos.	Not done 180 nos. not done	
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	NIL	NIL	Area not matured for reclamation and rehabilitation
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NIL 45	NIL Not done	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	NIL	Not done	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Annual report has not been submitted		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	Directly dispatched to the crusher	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NIL	NIL	
7c	Different grade of mineral sorted out at mines	NIL	NIL	
7d	Any beneficiation process	NIL	NIL	

	at mines			
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	NIL		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	Stacking of generated top soil is being done outside lease area	
8b	Concurrent use or storage of topsoil	NIL	Stacking of generated top soil is being done outside lease area	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Southern part of the lease area	Stacking is being done outside lease area	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	Stacking of generated top soil is being done outside lease area	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	Stacking of generated top soil is being done outside lease area	
8f	Baseline information on existence of plantation & additional plantation done (Rule 44 of MCDR, 2017)	NIL	NII	
8g	Survival rate	70%	NIL	Not done
8h	Water sprinkling on roads to control airborne dust	NIL	Not in practiced	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	NIL		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – April 2016 to March 2017 (Offline) A.R. submitted upto- 2016-17 (Offline)	

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	NIL		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	2.96 ha.	2.96 ha.	
9d	Scrutiny of Annual return on afforestation	Nil	Proposal 45 nos of plantation every year	Not achieved
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Stacking of mineral reject is being done outside lease area	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	NIL	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Rs. 300/-	Rs. 300/-	IBM Average sale price for cement grade limestone is Rs 375 per tonne (March 2017)
9i	Scrutiny of Annual return on fixed assets	NIL	NIL	
9k	Scrutiny of Annual return on mining machineries	02 Compressor 50 HP each 01 Loader 70 HP	01 Rock breaker	

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

Previous outstanding Violation:- Rule 45(5)(b) & 45(5)(c) of MCDR, 2017

Violations pointed out during present inspection: Rule 11(1), 19 (1),(2)&(3), 26(2), 27(2), 33, 36(2)&(3), 40, 41, 42, 45(7) and 55 of MCDR, 2017