

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	Accompany with Mine Officials	Shri Gamliel Kachhap, Mines Manager
3	Date of inspection	27/06/2019
4	Name of the Mine	Nandini Khundini Limestone Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: NIL Non-forest: 6.46 Ha. Total Lease Area: 6.46 Ha.
6	Mine Code	38MPR13041
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/5683/2011
8	Name of the lessee, Address, phone, email and fax number	Shri Hemant Kumar Sahu S/o Shri Jageshwar Sahu, Village: Chikhali, P.O. Jewara Sirsa, District: Durg (Chhattisgarh) – 491001 Phone: +91 (0) 9424100567 Email: hksgurg@gmail.com
9	Village	Nandini Khundini
10	Taluka / Mandal / District	Dhamdha
11	State	Chhattisgarh
12	Post office & PIN	Nandini Nagar, Pincode: 490036
13	Nearest police station	Nandini Nagar
14	Nearest Railway station	Durg
15	Date of Grant of Mining Lease	26/11/1980 to 25/11/1990 (10 years)
16	Date of Execution	26/11/1980
17	Date of opening of Mine	26/11/1980
18	Date of first Renewal, if applicable and its period & expiry	26/11/1990 to 25/11/2000 (10 years)
19	Date of second Renewal, if applicable and its period & expiry	26/11/2000 to 25/11/2010 (10 years) 26/11/2010 to 25/11/2020 (10 years) Supplementary lease agreement for extended period as per section 8A of MMDR Amendment Act, 2015 has not been made.
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Lease has been transferred from M/s Chopda Construction Company to Shri Hemant Kumar Sahu on 02/11/1999
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Not appointed
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Not appointed

23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Gamliel Kachhap Qualification: B.E. (Mining) Experience: +18 years Address: Village: Chikhali, P.O. Jewara Sirsa, District: Durg (Chhattisgarh) – 491001 Phone: +91 (0) 9424100567 Email: hksgurg@gmail.com Date of appointment: 01/09/2014
25	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Gamliel Kachhap Qualification: B.E. (Mining) Experience: +18 years Address: Village: Chikhali, P.O. Jewara Sirsa, District: Durg (Chhattisgarh) – 491001 Phone: +91 (0) 9424100567 Email: hksgurg@gmail.com Date of appointment: 01/09/2014
26	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Not appointed
27	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-86/NGP Nagpur dated 06/07/2001 Proposal Period: 2001-02 to 2005-06 Modified Mining Plan approved vide letter no. DRG/LST/MPLN-1084/2017-RPR Raipur dated 15/05/2017 Proposal Period: 2017-18 to 2020-21 Lapse Period: 2016-17 (1 year)
28	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Scheme of Mining approved vide letter no. DRG/LST/MPLN-86/NGP Nagpur dated 17/02/2009 Proposal Period: 2006-07 to 2010-11 Scheme of Mining approved vide letter no. DRG/LST/MPLN-86/NGP Nagpur dated 31/10/2012 Proposal Period: 2011-12 to 2015-16
29	Mineral(s) granted in lease and proved for mining	Limestone
30	Method of Mining (Opencast, Underground)	Opencast
31	Category (Fully Mechanised, Others or Manual)	Category 'A Fully Mechanised'
32	Captive/Non Captive	Non-Captive
33	Existing EC Limit and validity	Limestone 6000 Metric Tonnes per year obtained from State Level Expert Appraisal Committee, Ministry of Environment and Forest, Government, Raipur (Chhattisgarh) vide letter no. 275/SEAC-CG/EC/Mining/DRG/126/09 Raipur dated 19/12/2012 Valid up to 25/11/2020

34	Status of Financial Assurance as per rule 27 of MCDR, 2017	Rs. 19,22,700/- vide BG No. 734HT01171070001 dated 17/04/2017, valid up to 31/03/2021.
----	--	--

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	2017-18: 4 nos. of boreholes with cumulative depth of 83 meters	None of the boreholes have been drilled.	Deviation has been pointed out.
1b	Exploration over lease area for Geological axis 1 or 2.	100 x 100 meters grid has been proposed for detailed exploration during F.Y. 2017-18.	Not achieved.	As per the approved document the entire area has been explored in G1 level.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Name of the exploration agency is not mentioned the approved document. Expenditure Proposed: Rs. 2,07,500/-	-do-	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	The entire area has been explored in G1 level.	Not applicable.	-do-
1e	Balance reserves as on 01.04.2019 (in Million Tonnes)	Under (111): 1.188 Million Tonnes Under (211): 1.416 Million Tonnes	Under (111): 1.392 Million Tonnes Under (211): 1.416 Million Tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	NIL		

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)	2018-19: In between local co-ordinates (1) S35 to S90 and W35 to W90 (2) N35 to N128 and W165 W260	Mining is being done irregularly in several places without any approved proposal. No such proposal has been given in the earlier approved MMP for mining at 7.5 m barrier zone. Development and	Deviation has been pointed out.

			excavation was observed all along the lease boundary, and most of places 7.5m barrier zone has been mined out.	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Topsoil: NIL OB/SB: 01 no. Mineral/Ore: 03 nos.	Topsoil: NIL OB/SB: NIL Mineral/Ore: 04 nos.	
2c	Stripping ratio or ore to OB ratio	1:0.27	1: 0.0	The entire development has been done in the existing quarry.
2d	Quantity of topsoil generation in m3	3500 cubic meters	No topsoil has been generated during F.Y. 2018-19	-do-
2e	Quantity of overburden generation in m3	3500 cubic meter	No OB has been generated during F.Y. 2018-19	-do-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	NIL		

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	32475.00 Metric Tonnes.	2577.00 Metric Tonnes	-
3c	Recovery of salable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No mineral reject will be generated.	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	No sub-grade ore/mineral will be generated during F.Y. 2018-19	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	Mechanised crushing and screening.	Mechanised crushing and screening.	-

3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not mentioned in the approved document.	Not applicable.	-
3j	Provision of drilling & blasting in mineral benches	Dia: 80 mm Depth: 3.0 m Spacing: 2.5 m Burden: 2.0 m	Dia: 80 mm Depth: 3.0 m Spacing: 2.5 m Burden: 2.0 m	-
3k	Provision of mining machineries in mineral benches	<ol style="list-style-type: none"> 1. 01 no. of DTH Drill Machine with 80 mm dia. 2. 01 no. of Jack Hammer with 32 mm dia. 3. 01 no. of excavator with 1.25 CuM bucket 4. 01 no. of Hydraulic rock breaker 5. 02 nos. of Dumpers with 10 tonnes capacity 6. 01 no. of Water Tanker with 10000 liters capacity 7. 01 no. of Water Pump with 5.0 HP capacity 8. 01 no. of Jeep/Pool Car 	<ol style="list-style-type: none"> 1. 01 no. of DTH Drill Machine with 80 mm dia. 2. 01 no. of Jack Hammer with 32 mm dia. 3. 01 no. of excavator with 1.25 CuM bucket 4. 01 no. of Hydraulic rock breaker 5. 02 nos. of Dumpers with 10 tonnes capacity 6. 01 no. of Water Tanker with 10000 liters capacity 7. 01 no. of Water Pump with 5.0 HP capacity 8. 01 no. of Jeep/Pool Car 	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB: 2.0 to 3.0 Meters Topsoil: 1.0 m to 2.0 meters Mineral/Ore: 3.0 to 6.0 meters	OB: 2.0 to 3.0 Meters Topsoil: 1.0 m to 2.0 meters Mineral/Ore: 8.0 to 10.0 meters	At some places bench height has been observed around 12.0 m to 15.0 m
3m	Total area covered under excavation/pits	6.030 Ha.	5.680 Ha.	-
3n	Ore to OB ratio for the pit/mine during the year	1:0.27	1: 0.0	-

3o	Total area put in use under different heads at the end of year	Pit- 6.030 Ha. Waste/reject- 0.254 Ha. Others- 0.125 Ha.	Pit- 5.680 Ha. Waste/reject-0.0 Ha. Others- 0.199 Ha.	-
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2014-15: 32500.00 Metric Tonnes Yr- 2015-16: 32500.00 Metric Tonnes Yr- 2016-17: No proposal Metric Tonnes Yr- 2017-18: 32475.00 Metric Tonnes Yr- 2018-19: 32475.00 Metric Tonnes	Yr- 2014-15: 15263.00 Metric Tonnes Yr- 2015-16: 35573.00 Metric Tonnes Yr- 2016-17: 32249.00 Metric Tonnes Yr- 2017-18: 6573.00 Metric Tonnes Yr- 2018-19: 2577.00 Metric Tonnes	Over production during F.Y. 2015-16 has been observed.
3q	General remarks of inspecting officer on method of mining etc.	NIL		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Proposal has been given the approved document for separate dumping of Topsoil, OB and Mineral Reject.	Not achieved as the entire development and production has been done within exiting quarry.	-
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Topsoil: All along 7.5 m barrier zone. Waste: NIL Mineral Reject: NIL	Topsoil: No done. Waste: NIL Mineral Reject: NIL	Topsoil not generated during F.Y. 2018-19
4c	Number of dumps within lease area and outside lease area	Topsoil: 01 no.	Not achieved as the entire development and production has been done without	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Proposed beyond ultimate pit limit.	-do-	-
4e	Number of active & alive dumps	01 no.	No dumps has been observed within lease area.	-
4f	Number of dead dumps	Not proposed in the approved document.	Not applicable.	-
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	Not proposed in the approved document.	Not applicable.	-
4i	Length of Retaining wall or garland drain all along dump	Not mentioned 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	Approx 20000.00 Metric Tonnes of crushed and screened graded ore has been stacked within local co-ordinates S00 to S100 and W30 to W75 without any proposal. Deviation has been pointed 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	Proposal for full extraction of mineral/ore has been given before conceptual pit limit.	Not applicable as on date.	-
5b	Area under backfilling of mined out area	Not proposed in the approved document.	Mineral has not been completely mined out from the quarry.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Concurrent use of topsoil has been given form plantation purpose.	No topsoil has been generated during F.Y. 2018-19	-
5d	Total area fully reclaimed & rehabilitated	In the approved document no proposal for reclamation and rehabilitation has been given.	Area not matured for reclamation and rehabilitation.	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	NIL		

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.	Not submitted for F.Y. 2018-19	Deviation has been pointed out.	-

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	0.18 Ha. (7.5 m Barrier zone) 100 nos. 180 nos. 280 nos. By plantation Not mentioned.	Not achieved. Not done Not done NIL Not done -	Deviation has been pointed out.
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	Not proposed in the approved document for reclamation and rehabilitation by backfilling in voids.	Not applicable.	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	180 nos. 0.18 Ha. By plantation.	Not achieved. Not achieved. Not done.	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Not proposed in the approved document.	Periodic monitoring of Environmental parameters has not been maintained.	Deviation has been pointed out.
6f	General remarks of inspecting officer on PMCP compliance & progressive	NIL		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Mechanised crushed and sorted ore/mineral will be dispatched.	Being done as per proposal.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised Crushing and Screening	Being done as per proposal.	-
7c	Different grade of mineral sorted out at mines	Grade wise sorting has not been	Not applicable. Only sizing ore	-

		proposed in the approved document.	ore/mineral is being done.	
7d	Any beneficiation process at mines	Mechanised Crushing and Screening	Being done as per proposal.	-
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 36)	Proposal for separate removal of topsoil and its utilization has been proposed in the approved document.	No topsoil has been generated during F.Y. 2018-19	The entire development has been done within working quarry.
8b	Concurrent use or storage of topsoil	Proposal for concurrent use and storage of topsoil has been given in the approved document.	-do-	-do-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Proposal has been given in the approved document for separate dumping of OB, and Mineral rejects along 7.5 m barrier zone.	No OB and Mineral Rejects have been stacked in the proposed location.	-do-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposal has not been given in the approved document.	Not applicable.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	-do-	-do-	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	Earlier Plantation: 100 nos. F.Y. 2018-19: 180 nos. Cumulative: 280 nos.	Not done.	Deviation has been pointed out.
8g	Survival rate	Not mentioned in the approved document.	Nil plantation has been observed.	-
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling through water tanker.	Not done.	-

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 – June 2019 A.R. submitted upto- F.Y. 2018-19	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 Engineer: Shri G. Kachhap Geologist: Shri Naveen Kumar Tamrakar Manager: Shri G. Kachhap	Mining Engineer: Shri G. Kachhap Geologist: Not appointed Manager: Shri G. Kachhap	Notice of appointment of Manager has not been sent.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 12.144 Ha. OB/Waste: NIL Others: 0.199 Ha.	Could not be ascertained as no updated plan and sections have been submitted.	Excess area has been utilised. Deviation has been pointed out.
9d	Scrutiny of Annual return on afforestation	NIL during F.Y. 2018-19	NIL during F.Y. 2018-19	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject: NIL	Mineral Reject: NIL	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM and Graded Ore Closing Stock: 19872.000 Metric Tonnes.	ROM and Graded Ore Closing Stock: 19872.000 Metric Tonnes.	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: Rs. 2285850.00 Ex. Mine Price: Rs. 400.00 Per Metric Tonne Cost of Production: Rs. 400.00 Per Metric Tonne	Sale Value: Rs. 2285850.00 Ex. Mine Price: Rs. 400.00 Per Metric Tonne Cost of Production: Rs. 400.00 Per Metric Tonne	Ex-Mine Price and Cost of Production are same. Working with 0% of profit.
9i	Scrutiny of Annual return on fixed assets	Fixed Asset: Rs. 50000.00	Fixed Asset: Rs. 50000.00	-
9k	Scrutiny of Annual return on mining machineries	Given in the annual returns for F.Y 2018-19.	Given in the annual returns for F.Y 2018-19.	-

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

Outstanding Violations: Rule 11(1) for non achievement of exploration proposal.

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

Shri. J. S. Hada, Asst. Mining Geologist, Date of Inspection: 18/08/2018

Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा
Rule 11(1)	<p>The following deviations have been found in the mine from the Modified Mining Plan vide DRG/LST/MPLN-1084/2017-RPR, Raipur dated 15/05/2017 for the period of 2017-18 to 2020-21:</p> <p>Exploration: There was a proposal given in the approved MMP to carry out 04 nos. of boreholes in the year 2017-18 up to a cumulative depth of 83 meters, whereas, none of the boreholes have been drilled.</p> <p>Development: There was a proposal given for development and excavation of mineral/ore During F.Y. 2018-19: (1) S35 to S90 and W35 to W90 (2) N35 to N128 and W165 W260 Whereas, Mining is being done irregularly in several places without any approved proposal. No such proposal has been given in the approved MMP 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.</p> <p>Stacking of Mineral/Ore: In the approved Modified Mining Plan, there was no such proposal has been given for stacking of Mineral/Ore, whereas, stacking of approx 20,000 Metric Tonnes of Mineral/Ore has been done in between Local co-ordinates S00 to S100 and W30 to W75, without any proposal.</p> <p>Afforestation: There was a proposal for plantation of 180 nos. of plants during 2018-19. Whereas, None of the plants have been planted.</p>
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 2018-19.
Rule 33	Updated print copy of the surface geological plan and sections has not been submitted before 30th day of June for the year 2017-18 and 2018-19.
Rule 40, 41 & 42	Periodical monitoring data of environmental parameters have not been maintained.
Rule 45 (7)	<p>Annual Return 2017-18 and 2018-19: Part I: Annual Return for the Financial Year 2018-19 has been scrutinized; it has been found that as per approved Modified Mining Plan, 6.409 Ha lease area has been considered for calculation of Financial Assurance up to the end of the Plan Period whereas, 12.343 Ha area has been utilized till the end of F.Y. 2020-21. Financial Assurance in the form of Bank Guarantee for the excess used 5.934 Ha lease area has to be submitted under rule 27(1) of MCDR, 2017 to the authorized officer</p> <p>Part VI and VII: The Cost of Production for F.Y. 2017-18 is Rs. 350.00 per Metric Tonne and for F.Y. 2018-19 is Rs. 400.00 Per Metric Tonne. Whereas, the Ex-Mine Price for F.Y. 2017-18 is Rs. 350.00 Per Metric Tonne and for F.Y. 2018-19 is Rs. 400.00 Per Metric Tonne, it indicates that the difference of profit & margin is Rs. 0.0 (Zero) Per Metric Tonne.</p>

नियम	उल्लंघन के प्रकार का विस्तृत ब्योरा
Rule 45 (7)	The Consignee name and registration no. as allotted by IBM to the buyer, have not been mentioned in the returns.
Rule 46	Notice of Certain Appointment: Appointment notice of Manager (Mines) has not been sent in the prescribed format to the authorized officer within fifteen days from the date of such appointments.
Rule 55	Whole-time Geologist has 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: 27/06/2019