

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	04/03/2019
3	Name of the Mine	Mopar Limestone Mine
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: 0.0 Ha. Non-Forest: 13.25 Ha. Total Lease area: 13.25 Ha.
5	Mine Code	38CHG14018 MCDR File No. CHG/BLB/LST/38CHG14018
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/14283/2012
7	Name of the lessee, Address, phone, email and fax number	Shri Kapil Agrawal S/o Shri Kedar Agrawal, C-66, Sector 4, Devendra Nagar, Raipur District: Raipur (Chhattisgarh)-492004 Phone:0771-424004 Email: kapilmining@gmail.com / kapil.mining@yahoo.in
8	Village	Mopar
8	Taluka / Mandal / District	Tehsil: Bhatapara, District: Balodabazar
10	State	Chhattisgarh
11	Post office & PIN	Mopar, Pin Code: 493 331
12	Nearest police station	Sohela
13	Nearest Railway station	Bhatapara 25 Km
14	Date of Grant of Mining Lease	03/10/2002 to 02/10/2022 (20 Years) As per section 8A of MMDR Amendment Act, 2015 Validity of the lease period extended up to 50 years. Supplementary lease deed has not been made for extended period. Mining Lease has been transferred from Shri Sanjay Kumar Sehgal, S/o Shri Satpal Sehgal address Panjabi Colony, Katora Talab, Raipur to Shri Kaipal Agrawal S/o Shri K.P. Agrawal Address C-64/4, Devendra Nagar, Raipur on 30/12/2011
15	Date of Execution	03/10/2002
16	Date of opening of Mine	03/01/2004
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
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	Not Applicable
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	Shri Nishes Kumar Baghel C-66, Sector 4, Devendra Nagar, Raipur District: Raipur (Chhattisgarh)-492004 Phone:0771-424004 Email: kapilmining@gmail.com / kapil.mining@yahoo.in Date of Appointment: 01/12/2019
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Sanjay Sopanrao Chinchole Qualification: B.E. (Mining) Experience: +15 years C-66, Sector 4, Devendra Nagar, Raipur District: Raipur (Chhattisgarh)-492004 Phone:0771-424004 Email: kapilmining@gmail.com / kapil.mining@yahoo.in Date of Appointment: 01/01/2019
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. RAP/LST/MPLN-784/NGP Nagpur dated 16/07/2002 Proposal Period: 2002-03 to 2006-07 Modified Mining Plan approved vide letter no. RAP/LST/MPLN-784/NGP Nagpur dated 09/06/209 Proposal Period: 2004-05 to 2008-09
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 approved vide letter no. RAP/LST/MPLN-784/NGP Nagpur dated 04/10/2010 Proposal Period: 2009-10 to 2013-14 2nd Scheme of Mining approved vide letter no. RAP/LST/MPLN-784/NGP Nagpur dated 27/11/2014 Proposal Period: 2014-15 to 2018-19
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	Category 'A' Fully Mechanised
30	Captive/Non Captive	Non-Captive
31	Existing EC Limit and validity	Mining of Limestone 2,00,212.00 Metric Tonnes per year obtained from State Level Environment Impact Assessment Authority Chhattisgarh, Ministry of Environment and Forests, Government of India, Raipur (Chhattisgarh) vide letter no. 249/SEIAA-CG/EC/Mining/RYP/259/2011 Raipur dated 13/12/2012. Valid up to 02/10/2022.

32	Status of Financial Assurance	BG of Rs. 2.0 lakhs submitted Validity 31/03/2019 Difference of the BG as per MCDR, 2017 has not been submitted. Deviation has been pointed out.
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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	No exploration has been proposed during scheme period.	Not applicable.	As per last approved scheme of Mining the entire lease area has been explored under G1 Level.
1b	Exploration over lease area for Geological axis 1 or 2.	No exploration has been proposed during scheme period.	Not applicable.	-
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No exploration has been proposed during scheme period.	Not applicable.	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No exploration has been proposed during scheme period.	Not applicable.	The entire lease area has been explored under G1 Level.
1e	Balance reserves as on 01.04.2018 (in Million Tonnes)	Under (111): 4.35 Million Tonnes Under (211): 4.45 Million Tonnes	Under (111): 4.82 Million Tonnes Under (211): 4.45 Million Tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	The mine was temporarily discontinued since 01/09/2017. Further notice of reopening of the mine has been given from 18/01/2019.		

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)	In between UTM Coordinates N2393300 to N2393510 and E609030 to E609265	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: 04 nos.	Top Soil: 01 no. Mineral: 02 nos.	Notice of reopening of mine has been given from 18/01/2019.
2c	Stripping ratio or ore to OB ratio	1:0.03	Could not be ascertained as no records have been made.	Deviation has been pointed out.
2d	Quantity of topsoil generation in m3	8800 CuM	Could not be ascertained as no records have been made.	Generated topsoil/OB has been dump along the 7.5m barrier zone and plantation has been done over the dump.
2e	Quantity of overburden generation in m3	NIL generation of waste has been proposed in the approved document.	Could not be ascertained as no records have been made.	Deviation has been pointed out.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The mine was temporarily discontinued since 01/09/2017. Further notice of reopening of the mine has been given from 18/01/2019.		

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	2,00,925.00 Metric Tonnes	55230.00 Metric Tonnes	-
3c	Recovery of salable/usable mineral from ROM production	95%	100%	Production is being done from the mineralised zone.
3d	Quantity of mineral reject generation	NIL generation of mineral reject has been proposed 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	NIL generation of sub-grade has been proposed 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	Manual sizing has been proposed before despatch.	Being done through rock breaker.	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Manual sizing has been proposed before despatch.	Being done through rock breaker.	-
3j	Provision of drilling & blasting in mineral benches	Dia: 100 mm Spacing: 2.8 m Burden: 2.7 m Depth: 6.0 m	Dia: 100 mm Spacing: 2.8 m Burden: 2.7 m Depth: 6.0 m	-
3k	Provision of mining machineries in mineral benches	<ol style="list-style-type: none"> 1. Dozer 01 no. 2. DTH drill (100 mm dia) 01 no. 3. Shovel/Excavators (1.25 CuM bucket) 03 nos. 4. Dumpers/Tippers (16 Tonnes) 12 nos. 5. Water tanker (1000 ltrs) 01 no. 6. Water Pump (5 HP) 01 no. 	<ol style="list-style-type: none"> 1. Dozer 01 no. 2. DTH drill (100 mm dia) 01 no. 3. Shovel/Excavators (1.25 CuM bucket) 03 nos. 4. Dumpers/Tippers (16 Tonnes) 12 nos. 5. Water tanker (1000 ltrs) 01 no. 6. Water Pump (5 HP) 01 no. 	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Top Soil: 01 mtr. Mineral: 06 mtr.	Avg. Top Soil: 01 mtr. Avg. Mineral: 06 mtr.	-
3m	Total area covered under excavation/pits	3.95 Ha. up to end of Scheme Period.	2.30 Ha. up to end of February 2019.	Information has been obtained from the submitted MMP.

3n	Ore to OB ratio for the pit/mine during the year	1:0.03	1: 0.00	Production is being done from the mineralised zone.
3o	Total area put in use under different heads at the end of year	Pit- 3.95 Ha. Waste/reject- 2.41 ha. Others- 3.32 Ha.	Pit- 2.30 Ha. Waste/reject- 0.220 ha. Others- 0.15 Ha.	Information has been obtained from the submitted MMP.
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2013-14: 2,00,212.00 Metric Tonnes Yr- 2014-15: 1,92,375.00 Metric Tonnes Yr- 2015-16: 2,00,925.00 Metric Tonnes Yr- 2016-17: 2,00,925.00 Metric Tonnes Yr- 2017-18: 2,00,925.00 Metric Tonnes Yr- 2018-19: 2,00,925.00 Metric Tonnes	Yr- 2013-14: 0.0 Metric Tonnes Yr- 2014-15: 637.00 Metric Tonnes Yr- 2015-16: 176616.70 Metric Tonnes Yr- 2016-17: 98594.67 Metric Tonnes Yr- 2017-18: 55230.00 Metric Tonnes Yr- 2018-19: 2,00,925.00 Metric Tonnes (up to February 2019)	Actual production for F.Y. 2018-19 has been taken from the monthly returns.
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)	Top Soil: in between N2393190 to N2393310 and E608870 to E609270 Mineral/Ore: No proposal has been given in the approved document for staking of mineral/ore. Mineral is being directly despatched from the quarry.	Topsoil: dump along the 7.5 m barrier zone. Mineral: Directly despatch from the quarry.	-

4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Top Soil: in between N2393190 to N2393310 and E608870 to E609270 Mineral: Directly despatch from the quarry.	Topsoil has been dump along the 7.5 m barrier zone.	-
4c	Number of dumps within lease area and outside lease area	OB: 02 nos.	OB: 01 no. along 7.5 m barrier zone	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Proposed beyond ultimate pit limit.	Topsoil has been dump along the 7.5 m barrier zone. Beyond ultimate pit limit	-
4e	Number of active & alive dumps	Active: 02 nos.	Active: 01 no. along 7.5 m barrier zone.	-
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. Garland drain has been constructed at some part long lease boundary.	-
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	NIL		

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 has been given for full extraction of mineral from the mined out area during conceptual period.	The mineral has not been mined out completely so far.	-

5b	Area under backfilling of mined out area	Area not matured for backfilling.	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Concurrent use of topsoil for plantation along the lease boundary in the southern side of the lease area.	Concurrent use of topsoil for plantation along the lease boundary is being done.	-
5d	Total area fully reclaimed & rehabilitated	Not proposed in the approved document.	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.	Submitted after due time.	Deviation has been pointed out during last inspection.	-
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	2.4 Ha. NIL 580 nos. 2410 nos. - -	NIL NIL 530 nos. (up to Feb 2019) 530 nos. - -	-
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.	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	580 nos. - -	530 nos. - -	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given for regular monitoring of environmental parameters.	Recently monitoring of environmental parameters has been done in the buffer zone and core zone.	-
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	Manual Sizing and sorting has been proposed in the approved document before despatch of the mineral from the mine.	Mechanised sizing through rock breaker is being done.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual Sizing and sorting has been proposed in the approved document.	Mechanised sizing through rock breaker is being done.	-
7c	Different grade of mineral sorted out at mines	Manual Sizing and sorting has been proposed in the approved document.	Only mechanised sizing through rock breaker is being done before dispatch.	-
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	NIL		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Concurrent use of top soil for plantation purpose has been proposed.	Concurrent use of topsoil is being done.	-

8b	Concurrent use or storage of topsoil	Concurrent use of top soil for plantation purpose has been proposed.	Concurrent use of topsoil is being done. Same has been utilised for plantation.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumping for OB, Top Soil and Mineral has been proposed in the earmarked locations.	Topsoil has been dump along the 7.5 m barrier zone.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Restoration the ground has been proposed during conceptual stage of the mine.	Not applicable.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed in the approved document.	Not applicable.	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	580 nos. of plants has been proposed for plantation during 2017-18	530 nos. of sampling have been planted along 7.5 m barrier zone.	-
8g	Survival rate	Not mentioned the approved document.	Not applicable	-
8h	Water sprinkling on roads to control airborne dust	Water sprinkling through water tanker has been proposed.	Water sprinkling is being done through water tanker.	-
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 – Feb 2019 A.R. submitted upto- F.Y. 2017-18	-

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	Manager: Shri Nishes Kumar Baghel Mining Engineer: Shri Sanjay Sopanrao Chinchole	Deviation has been pointed out.	NIL

		Geologist: Not appointed.		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-0.30 ha. Waste/reject- 0.00 ha. Others- 0.00 Ha (As per annual return 2017-18)	Pit- 2.30 Ha. Waste/reject- 0.220 ha. Others- 0.15 Ha. (up to Feb 2019)	Information has been obtained from the submitted MMP.
9d	Scrutiny of Annual return on afforestation	NIL Given	530 nos. up to February 2019.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Given.	No mineral reject is present in the mine.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock: 2516.270 Metric Tonnes. (up to end of Feb 2019)	Closing Stock: 2516.270 Metric Tonnes. (up to end of Feb 2019)	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: Rs. 13809455.00 Ex Mine Price: Rs. 267.75 Production Cost: Rs. 266.91	Sale Value: Rs. 13809455.00 Ex Mine Price: Rs. 267.75 Production Cost: Rs. 266.91	Difference of the profit & margin is only Rs. 0.84 per metric ton
9i	Scrutiny of Annual return on fixed assets	NIL Given	NIL	NIL
9k	Scrutiny of Annual return on mining machineries	Given	NIL	NIL

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

No outstanding violations.

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

Shri S. Kartikeya, Jr. Mining Geologist, Date of Inspection: 15/10/2018

Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा
Rule 11 (1)	The following deviations have been found in the mine from the approved Scheme of Mining vide letter no. RAP/LST/MPLN-784/NGP Nagpur dated 27/11/2014 for the period of 2014-15 to 2018-19: Development: In the approved Scheme of Mining, there was a proposal given for the production and development during the year 2017-18 and 2018-19 in-between UTM coordinates N2393300 to N2393510 and E609030 to E609265 whereas, production and development is being done all over the quarry in irregular and un-scientific manner.
Rule 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 45 (7)	Annual Return 2017-18: The Cost of Production is Rs. 266.91 per metric ton whereas, the Ex-Mine Price is Rs. 267.75 per metric tone, it indicates that the difference of profit & margin is only Rs. 0.84 per metric ton. Supporting invoice may be submitted.
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: 04/03/2019