

## **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 Sanjay Shrivastava, Agent (Mines)
3	Date of inspection	01/07/2019
4	Name of the Mine	Medesara Limestone Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: NIL Non-forest: 12.85 Ha. Total Lease Area: 12.85 Ha.
6	Mine Code	38CHG05020
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/15814/2013
8	Name of the lessee, Address, phone, email and fax number	M/s K. B. Lal & Sons C/o Shri Sanjay Shrivastava G-4, Adarsh Nagar, Durg 491001 Email: sanjayshrivastava74@gmail.com Mob.: +91 (0) 9827167911
9	Village	Medesara
10	Taluka / Mandal / District	Tehsil: Dhamdha, District: Durg
11	State	Chhattisgarh
12	Post office & PIN	Nandini, Pin Code: 491036
13	Nearest police station	Nandini Nagar
14	Nearest Railway station	Durg
15	Date of Grant of Mining Lease	03/10/2011 to 02/10/2041 (30 Years)
16	Date of Execution	03/10/2011
17	Date of opening of Mine	03/04/2013
18	Date of first Renewal, if applicable and its period & expiry	03/10/2041 to 02/10/2061 (20 Years) As per section 8A of MMDR Amendment Act, 2015; Supplementary agreement for remaining 20 years has done)
19	Date of second Renewal, if applicable and its period & expiry	NA
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	NA
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Sanjay Shrivastava G-4, Adarsh Nagar, Durg 491001 Email: sanjayshrivastava74@gmail.com Mob.: +91 (0) 9827167911 Date of Appointment: 05/09/2017
23	Name of the Mines Manager with Address, phone, email, fax number and date of	Swarna Kumar Bandhe HIG-1/22, Borsi Colony, Durg 491001 Date of Appointment: 25/02/2014

	appointment in mines	Email: sanjayshrivastava74@gmail.com Mob.: +91 (0) 9827167911 <b>Notice of appointment has not been sent.</b>
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Swarna Kumar Bandhe Qualification: B.E. (Mining) Experience: +12 years HIG-1/22, Borsi Colony, Durg 491001 Date of Appointment: 25/02/2014 Email: sanjayshrivastava74@gmail.com Mob.: +91 (0) 9827167911
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes, appointed. Shri Suhanshu Nigam Qualification: M.Sc. (Geology) Experience: +2 years C/o Shri Sanjay Shrivastava G-4, Adarsh Nagar, Durg 491001 Email: shanunigam90@gmail.com Mob.: +91 (0) 9755306132 Date of Appointment: 12/07/2017
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	<b>Mining Plan</b> approved vide letter no. DRG/LST/MPLN-1084/NGP Dated 17/02/2011 Proposal Period: 2011-12 to 2015-16
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	<b>Review of Mining Plan</b> approved vide letter no. DRG/LST/MPLN-1084/NGP-14-RPR Raipur Dated 12/07/2016 Proposal Period: 2016-17 to 2020-21
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining (Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Category 'A' Mechanised
31	Captive/Non Captive	Non Captive
32	Existing EC Limit and validity	Production of Limestone 150000 Metric Tonnes per annum vide letter no. 260/SEIAA-EC/Mining/DRG/232 Raipur dated 23/03/2012 obtained from State Level Environment Impact Assessment Authority, Environment and Forest, Government of India.
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Rs. 325000/- vide BG No. 9517/2016-17/2 dated 19/05/2016 and valid up to 18/05/2021 Rs. 3287000/- vide BG No. 170391IBGF00077 dated 30/08/2017 and valid up to 29/05/2021

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	No exploration work has been proposed in the approved	Not applicable	Detail exploration as per MEMC Rule

		document during Review period.		2015 is required.
1b	Exploration over lease area for Geological axis 1 or 2.	Proposal has not been given in the approved document.	Not applicable	-
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	Proposal has not been given in the approved document.	Not applicable.	
1e	Balance reserves as on 01.04.2019 (in Million Tonnes)	Under (121): 1.0279 Million Tonnes Under (122): 10.128 Million Tonnes Under (333): 7.231 Million Tonnes	Under (121): 1.0496 Million Tonnes Under (122): 10.128 Million Tonnes Under (333): 7.231 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) N140 to N215 and E015 to E185 (2) N082 to N213 and E250 to E467 (3) N340 to N425 and E213 to E460	In addition to the proposed area development and production of mineral has been done in between local co-ordinates N215 to N335 and E235 to E490	Deviation has been pointed out.
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Topsoil/OB: 01 no. Mineral: 03 nos.	Topsoil/OB: 01 no. Mineral: 02 nos.	-
2c	Stripping ratio or ore to OB ratio	1:0.60	1: 0.95	-
2d	Quantity of topsoil generation in m3	36614.70 Cubic Meter	Approx 30000 cubic meter	
2e	Quantity of overburden generation in m3	-	-	
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	02 nos.	02 nos.	-
3b	Quantity of ROM mineral production proposed	150203.70 Metric Tonnes	63000.00 Metric Tonnes	-
3c	Recovery of salable/usable mineral from ROM production	90%	90%	-
3d	Quantity of mineral reject generation	15020.37 Metric Tonnes	No mineral reject has been generated during F.Y. 2018-19	-
3e	Grade of mineral reject generation and threshold value declared	Not mentioned in the approved document.	-do-	-
3f	Quantity of sub-grade mineral generation	No sub-grade mineral will be generated during review period.	Not applicable	-
3g	Grade of sub-grade mineral generation	Not mentioned in the approved document.	-do-	-
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	Proposal has not been given in the approved documents.	Not applicable.	-
3j	Provision of drilling & blasting in mineral benches	Dia: 65 mm Depth: 3.3 m Burden: 1.2 m Spacing: 1.5 m	Dia: 65 mm Depth: 3.3 m Burden: 1.2 m Spacing: 1.5 m	-
3k	Provision of mining machineries in mineral benches	1) Compressor 04 nos. with 110 CFM Capacity 2) Jackhammer 01 no. with 35/65 mm dia 3) JCB 01 no. with 0.8 cum bucket capacity 4) Tippers 02 nos. with 10 metric tonnes capacity	1) Compressor 04 nos. with 110 CFM Capacity 2) Jackhammer 01 no. with 35/65 mm dia 3) JCB 01 no. with 0.8 cum bucket capacity 4) Tippers 02 nos. with 10 metric tonnes capacity	-
3l	Whether height of benches in overburden and mineral suitable for method of	Topsoil/OB: 0.5 m to 2.0 m Mineral: 3.0 m	Topsoil/OB: 0.5 m to 2.0 m Mineral: 3.0 m	-

	mining proposed in MP/SOM			
3m	Total area covered under excavation/pits	10.692 Ha. up to end of review period.		
3n	Ore to OB ratio for the pit/mine during the year	1:0.60	1: 0.95	
3o	Total area put in use under different heads at the end of year	Pit- 10.692 Ha. Waste/reject- 1.32 Ha. Others- 0.395 Ha. Up to end of review period.	Pit- 12.850 Ha. Waste/reject- NIL Ha. Others- NIL Ha.	Deviation has been pointed out for excess utilization of the lease area.
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	<b>Yr- 2014-15:</b> 112500.00 Metric Tonnes <b>Yr- 2015-16:</b> 168750.00 Metric Tonnes <b>Yr- 2016-17:</b> 153129.85 Metric Tonnes <b>Yr- 2017-18:</b> 150379.80 Metric Tonnes <b>Yr- 2018-19:</b> 150203.70 Metric Tonnes	<b>Yr- 2014-15:</b> 1650.00 Metric Tonnes <b>Yr- 2015-16:</b> 105100.00 Metric Tonnes <b>Yr- 2016-17:</b> 103500.00 Metric Tonnes <b>Yr- 2017-18:</b> 70000.00 Metric Tonnes <b>Yr- 2018-19:</b> 63000.00 Metric Tonnes	-
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 in the approved document for separate dumping of Topsoil, OB and Mineral Reject.	Being done as per proposal.	-
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	<b>Topsoil and Mineral Reject:</b> Along 7.5m barrier zone <b>Mineral:</b> In between local co-ordinates N232 to N252 and E438 to E475	<b>Topsoil and Mineral Reject:</b> Along 7.5m barrier zone <b>Mineral:</b> In between local co-ordinates N232 to N252 and E438 to E475	

4c	Number of dumps within lease area and outside lease area	Topsoil and OB: 01 no. Mineral: 01 no.	Topsoil and OB: 01 no. Mineral: 01 no.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Dumps have been proposed beyond the ultimate pit limit.	Being done as per proposal.	-
4e	Number of active & alive dumps	02 nos.	02 nos.	-
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	Construction of garland drain has been proposed along the 7.5 m barrier zone, where the dumping of topsoil and overburden will be done during review period.	Being done as per proposal.	-
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 mentioned 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 mined out area before starting backfilling during conceptual stage.	Area not matured for backfilling.	-
5b	Area under backfilling of mined out area	Proposal has not been given in the approved document.	-do-	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Proposal has been given for concurrent use of topsoil for restoration of the ground.	Being done as per proposal.	-

5d	Total area fully reclaimed & rehabilitated	Reclamation has been proposed along the 7.5 m barrier zone.	Being done as per proposal.	
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	0.040 Ha.  100 nos. 50 nos.  150 nos.  By plantation  Rs. 12500/-	0.040 Ha.  100 nos. 3000 nos.  3100 nos.  By plantation  No record has been maintained.	-
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	Proposal has not been given for reclamation and rehabilitation by backfilling of voids area within lease area.	Not applicable.	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	50 nos. 0.040 Ha. By plantation.	3000 nos. 0.040 Ha. By plantation.	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for regular monitoring of	Being done as per proposal.	-

		environmental parameters.		
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 Crushing Sizing and Screening have been proposed in the approved document before dispatch of ore/mineral from lease area.	Being done as per proposal.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised Crushing Sizing and Screening have been proposed	Being done as per proposal.	-
7c	Different grade of mineral sorted out at mines	Proposal has not been given in the approved document for grade wise sorting of mineral/ore.	Not applicable.	-
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)	Proposal for separate removal of topsoil and its utilization has been given in the approved document.	Not Applicable.	-
8b	Concurrent use or storage of topsoil	Concurrent use of topsoil has been given for restoration of the ground.	Being done as per proposal.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumping of OB, waste rock, rejects and fines have been proposed in the approved document.	Being done as per proposal.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Use of OB and waste has been proposed in the approved document for	Being done as per proposal.	-



		restoration of the ground to its original stage.		
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased restoration, reclamation and rehabilitation of lands affected by mining operations has been proposed in the approved document.	Being done as per proposal at 7.5 m barrier zone.	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	50 nos. of plantation has been proposed every year.	2018-19: 3000 nos. of plantation has been done along 7.5 m barrier zone.	-
8g	Survival rate	Not mentioned in the approved document.	Approx 50%	-
8h	Water sprinkling on roads to control airborne dust	Water sprinkling through water tanker has been proposed in the approved document.	Being done as per proposal.	-
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	<b>Mining Engineer:</b> Shri Swarn Kumar Bandhe <b>Geologist:</b> Shri Suhanshu Nigam <b>Manager:</b> NIL	<b>Mining Engineer:</b> Shri Swarn Kumar Bandhe <b>Geologist:</b> Shri Suhanshu Nigam <b>Manager:</b> NIL	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 10.692 Ha. Waste/reject- 1.32 Ha. Others- 0.395 Ha. Up to end of review period.	Pit- 25.70 Ha. Waste/reject- NIL Ha. Others- NIL Ha.	12.85 Ha. area has been shown under Already exploited & abandoned by Opencast (O/C) mining,

				which is incorrect. Deviation has been pointed out.
9d	Scrutiny of Annual return on Afforestation	<b>Within lease area:</b> 3000 nos. <b>Outside lease area:</b> 500 nos.	<b>Within lease area:</b> 3000 nos. <b>Outside lease area:</b> 500 nos.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NIL mentioned in the annual returns.	No mineral reject present in the mine.	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	<b>ROM:</b> NIL <b>Graded Ore:</b> 10626.370 Metric Tonnes.	<b>ROM:</b> NIL <b>Graded Ore:</b> 10626.370 Metric Tonnes.	Up to June 2019
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	<b>Sale Value:</b> Rs. 28726475.00 <b>Ex-Mine Price:</b> Rs. 475.00 Per Metric Tonnes <b>Cost of Production:</b> Rs. 80.00 Per Metric Tonnes.	<b>Sale Value:</b> Rs. 28726475.00 <b>Ex-Mine Price:</b> Rs. 475.00 Per Metric Tonnes <b>Cost of Production:</b> Rs. 80.00 Per Metric Tonnes.	Incorrect cost of production has been calculated as only rate of royalty has been considered for calculation. Deviation has been pointed out.
9i	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in ₹) 0.0	Value of Fixed Assets (in ₹) 0.0	NIL
9k	Scrutiny of Annual return on mining machineries	Given in the annual returns.	Given.	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: 01/06/2017

Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा
<b>Rule 11 (1)</b>	The following deviations have been found in the mine from approved Review of Mining Plan vide letter no. DRG/LST/MPLN-1084/NGP-14-Raipur Dated 12/07/2013 for the period of 2016-17 to 2020-21: <b>Development:</b> There was a proposal given for development and excavation of mineral/ore During F.Y. 2018-19:

	<p>(1) N140 to N215 and E015 to E185  (2) N082 to N213 and E250 to E467  (3) N340 to N425 and E213 to E460</p> <p>Whereas, in addition to the proposed area, development and production of mineral has been done in between local co-ordinates N215 to N335 and E235 to E490.</p>
<b>Rule 26 (2)</b>	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.
<b>Rule 27 (1)</b>	Financial Year 2018-19: It has been found that as per approved Review of Mining Plan, 12.04 Ha lease area has been considered for calculation of Financial Assurance up to the end of the review period whereas, 12.85 Ha. lease area has been utilized till the end of F.Y. 2018-19. Financial Assurance in the form of Bank Guarantee for the excess used 0.81 Ha. lease area has to be submitted under rule 27(1) of MCDR, 2017 to the authorized officer.
<b>Rule 45 (7)</b>	<p><b>Annual Return 2017-18 and 2018-19:</b></p> <p><b>Part I:</b></p> <p>Annual Return for the Financial Year 2018-19 has been scrutinized; it has been found that an area of 12.85 Ha. has been shown as abandoned opencast mining, whereas, no part of the lease is abandoned. Moreover total area degraded is exceeding from the area for which Financial Assurance given.</p> <p><b>Part VII: Cost of Production:</b></p> <p>Incorrect cost of production has been reported in the annual returns as only royalty part has been considered for calculation. All the applicable part should be calculated for computation of cost of production per metric tonne.</p>
<b>Rule 46</b>	<b>Notice of Certain Appointment:</b> Appointment notice of Manager (Mines) and Agent (Mines) have not been sent in the prescribed format to the authorized officer within fifteen days from the date of such appointments.

(Name of the Inspecting Officer and Designation and Date)

(Shaival Kartikeya)  
Jr. Mining Geologist  
Indian Bureau of Mines, Raipur  
Date of Inspection: 01/07/2019