

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	16/10/2020
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	K. B. Lal & Sons (HUF) 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 made on 25/01/2016
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 Address: G-4, Adarsh Nagar, Durg (Chhattisgarh), Pin Code: 491001 Email: sanjayshrivastava74@gmail.com Mob.: +91 (0) 9827167911 Date of Appointment: 05/09/2017

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23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Swarna Kumar Bandhe Address: HIG-1/22, Borsi Colony, Durg (Chhattisgarh), Pin Code: 491001 Date of Appointment: 25/02/2014 Email: sanjayshrivastava74@gmail.com Mob.: +91 (0) 9827167911
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 Address: 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 Deepak Sahu Qualification: M.Sc. (Geology) Experience: +5 years Address: C/o Shri Sanjay Shrivastava G-4, Adarsh Nagar, Durg 491001 Email: dsahu303@gmail.com Mob.: +91 (0) 8817092442 Date of Appointment: 01/06/2020
26	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-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.	Review of Mining Plan 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. 3,25,000/- vide BG No. 9517/2016-17/2 dated 19/05/2016 and valid up to 18/05/2021 Rs. 32,87,000/- 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 document during Review period.	Not applicable	Detail exploration as per MEMC Rule 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 01.04.2020 (in Million Tonnes)	Under (121 & 122): 0.8624950 Million Tonnes Under (221 & 222): 10.128 Million Tonnes Under (333): 7.231 Million Tonnes	Under (121 & 122): 0.8329305 Million Tonnes Under (221 & 222): 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)	2019-20: In between local co-ordinates N200 to N350 and E250 to 485	2019-20: In between local co-ordinates N200 to N350 and E250 to 485	Being done almost as per proposal.
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	1:0.63	1: 0.696	-
2d	Quantity of topsoil generation in m3	2019-20: OB and Topsoil: 40274.180 CuM	2019-20: OB and Topsoil: Approx 15000 CuM	Maximum development and production has been done in the

				existing quarry
2e	Quantity of overburden generation in m3	-do-	-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 nos.	01 nos.	-
3b	Quantity of ROM mineral production proposed	161502.62 Metric Tonnes	21550.00 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	<ol style="list-style-type: none"> 1) Compressor 04 nos. with 110 CFM Capacity 2) Jackhammer 01 no. with 35/65 mm dia 3) JCB 01 no. 	<ol style="list-style-type: none"> 1) Compressor 01 nos. with 300 CFM Capacity 2) Back Hoe 01 no. with 1.0 CuM bucket capacity 3) Tippers 02 nos. with 25 metric 	-

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		with 0.8 cum bucket capacity 4) Tippers 02 nos. with 10 metric tonnes capacity	4) Water Tanker 02 nos. with 2000 Liters and 4000 Liters capacity	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	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	-
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	1:0.63	1: 0.696	
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.	-
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2015-16: 168750.00 Metric Tonnes Yr- 2016-17: 153129.85 Metric Tonnes Yr- 2017-18: 150379.80 Metric Tonnes Yr- 2018-19: 150203.70 Metric Tonnes Yr- 2019-20: 161502.62 Metric Tonnes	Yr- 2015-16: 105100.00 Metric Tonnes Yr- 2016-17: 103500.00 Metric Tonnes Yr- 2017-18: 70000.00 Metric Tonnes Yr- 2018-19: 63000.00 Metric Tonnes Yr- 2019-20: 21550.00 Metric Tonnes	-
3q	General remarks of inspecting officer on method of mining etc.	Suggestions vide scrutiny comments has been given to the lessee for submission of the Financial Assurance in the form of Bank Guarantee for entire lease area excluding area utilised under green belt.		

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)	Topsoil and Mineral Reject: Along 7.5m barrier zone Mineral: In between local co-ordinates N232 to N252 and E438 to E475	Topsoil and Mineral Reject: Along 7.5m barrier zone Mineral: 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.	-

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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. 2019-20.	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	Proposal has not been given in the approved document.	Not applicable	-
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.	3900 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 environmental parameters.	Being done as per proposal.	-
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 to segregate the Limestone above 34% CaO	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 Limestone above 34% CaO.	Being done as per proposal.	-
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	Not Applicable.	-

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		given in the approved document.		
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 along 7.5 m barrier zone.	-
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 restoration of the ground to its original stage.	Being done as per proposal.	-
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)	2019-20: 50 nos. of plantation has been proposed every year.	2019-20: 800 nos. of plantation has been done along 7.5 m barrier zone.	-
8g	Survival rate	Not mentioned in the approved document.	Approx 70%	-
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 – October 2020 A.R. submitted upto- F.Y. 2019-20	NIL

S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining	Mining Engineer: Shri Swarn Kumar	Mining Engineer: Shri Swarn Kumar	NIL

	Engineer, Geologist and Manager	Bandhe Geologist: Shri Suhanshu Nigam Manager: NIL	Bandhe Geologist: Shri Deepak Sahu Manager: 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- 12.85 Ha. Waste/reject- NIL Ha. Others- NIL Ha.	-
9d	Scrutiny of Annual return on Afforestation	Within lease area: 800 nos.	Within lease area: 800 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	Closing Stock: ROM: NIL Graded Ore: 8490.060 Metric Tonnes.	Closing Stock: ROM: NIL Graded Ore: 8490.060 Metric Tonnes.	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: Rs. 13877906.90 Ex-Mine Price: Rs. 580.11 Per Metric Tonnes Cost of Production: Rs. 246.72 Per Metric Tonnes.	Sale Value: Rs. 13877906.90 Ex-Mine Price: Rs. 580.11 Per Metric Tonnes Cost of Production: Rs. 246.72 Per Metric Tonnes.	-
9i	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in ₹) 14378936.00	Value of Fixed Assets (in ₹) 14378936.00	NIL
9k	Scrutiny of Annual return on mining machineries	Given in the annual returns.	Cross verified during inspection.	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: 01/07/2019

Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का विस्तृत ब्योरा
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 2019-20.

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Rule 35	Online self assessment report of mining and allied activities as per the notified template of star rating in the format prescribed by the Indian Bureau of Mines for the year 2019-20 has not been submitted.
Rule 45 (7)	Annual Return 2019-20: Part - VI (Production, Dispatches And Stock) 5. Sales/Dispatches effected for Domestic Consumption and for exports(LIMESTONE): Registration number as allotted by the Indian Bureau of Mines to the buyer for the dispatched quantity of 9095.840 Metric Tonnes of Limestone is not mentioned in the returns.

(Name of the Inspecting Officer and Designation and Date)

(Shaival Kartikeya)
Jr. Mining Geologist
Indian Bureau of Mines, Raipur
Date of Inspection: 16/10/2019