

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 P. P. Pandey, Deputy General Manager Shri Sanjay Sharma, Manager (Mines)
3	Date of inspection	15/10/2020
4	Name of the Mine	Medesara Limestone Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non-Forest: 17.90 Ha. Forest: NIL Total Lease area: 17.90 Ha.
6	Mine Code	38CHG05003
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/18805/2014
8	Name of the lessee, Address, phone, email and fax number	M/s Singhania Minerals Private Limited Paryavas Bhawan, 2nd Floor, Block No. 1, Jail Raod, Area Hills, Bhopal (Madhya Pradesh) – 462011, Email: kiran.patil@acclimited.com Phone: +91 (0) 22 – 41593507 Fax: +91 (0) 22 - 66317431
9	Village	Medesara
10	Taluka / Mandal / District	Dhamdha, Durg
11	State	Chhattisgarh
12	Post office & PIN	Dhamdha, Pin Code: 490036
13	Nearest police station	Medesara
14	Nearest Railway station	Power House Bhilai
15	Date of Grant of Mining Lease	11/05/2001 19/06/2001 to 18/06/2031 (30 Years) Lease has been transferred from Smt. Seema Sekseria (Old Lessee) to M/s Singhania Minerals Private Limited (Present Lessee) on 22/06/2012
16	Date of Execution	19/06/2001
17	Date of opening of Mine	01/11/2001
18	Date of first Renewal, if applicable and its period & expiry	19/06/2031 to 18/06/2051 (20 Years) As per section 8A of MMDR Amendment Act, 2015, lease period has been extended up to 50 years. Supplementary lease agreement for extended period has been made on 21/12/2016.
19	Date of second Renewal, if applicable and its period & expiry	Not applicable
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable

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21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Kiran Patil, Chief Manufacturing Officer, ACC Limited, Cement House, 121, Maharshi Karve Road, Mumbai (Maharashtra) - 400 020 Email: kiran.patil@acclimited.com Phone: +91 (0) 22 – 41593507 Fax: +91 (0) 22 – 66317431 Date of Appointment: 15/07/2019
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Vaibhav Dixit, Director (Plant) ACC Limited, Jamul Cement Works, Bhilai, District: Durg (Chhattisgarh) – 490 024 Phone: +91 (0) 788 - 2285081-83 Fax: +91 (0) 788 – 2282585 Email: vaibhav.dixit@acclimited.com Date of Appointment: 01/07/2018
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Sanjay Kumar Sharma ACC Jamul Cement Works Medesara Mines, Medesara, Village Medesara, Teshil: Dhamdha District: Durg (Chhattisgarh) - 490036, Phone: +91 (0) 9752599824 Fax: +91 (0) 788 – 2282585 Email: sanjaykumar@acclimited.com Date of Appointment: 01/07/2018
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Sanjay Kumar Sharma Qualification: B. E. (Mining) Experience: +30 Years ACC Jamul Cement Works Medesara Mines, Medesara, Village Medesara, Teshil: Dhamdha District: Durg (Chhattisgarh) - 490036, Phone: +91 (0) 9752599824 Fax: +91 (0) 788 – 2282585 Email: sanjaykumar@acclimited.com Date of Appointment: 04/06/2019
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Shri Mallishi Kadlimati Qualification: M.Sc. (Geology) Experience: +8 Years ACC Jamul Cement Works Medesara Mines, Medesara, Village Medesara, Teshil: Dhamdha District: Durg (Chhattisgarh) - 490036, Phone: +91 (0) 7738626738 Fax: +91 (0) 788 – 2282585 Email: mallishi.kadlimati@acclimited.com Date of Appointment: 10/09/2018 (Appointment has been shown as Part Time Basis) Deviation has been pointed out.
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval	Mining Plan Approved vide letter no. DRG/LST/MPLN-751/NGP Nagpur dated 14/05/2001 Proposal Period: 2001-02 to 2005-06

	letter, if any.	<p>Modified Mining Plan approved vide letter no. DRG/LST/MPLN-749/NGP/2016/23-RPR Raipur dated 30/03/2005 Proposal Period: 2004-05 to 2005-06</p> <p>Modified Mining Plan approved vide letter no. DRG/LST/MPLN-751/NGP/2016/24-RPR Raipur dated 15/07/2016 Proposal Period: 2016-17 to 2020-21</p> <p>Modified Mining Plan approved vide letter no. DRG/LST/MPLN-1180/2018/RPR Raipur dated 11/12/2018 Proposal Period: 2019-20 to 2020-21</p>
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Lapse Period: 2006-07 to 2011-12 (5 years) 2011-12 to 2015-16 (5 Years)
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 Fully Mechanised"
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	Limestone (ROM) 88,000 Metric Tonnes Per Year vide letter no. 333/SEAC-CG/EC/Mining/Durg/99/09 Raipur dated 23/09/2010 obtained from State Level Environment Impact Assessment Authority, Ministry of Environment and Forest, Government of India. Valid up to 18/06/2051.
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Rs. 2,18,975/- vide BG No. 1637616BG0000445 dated 10/06/2016, valid up to 31/03/2021 Rs. 24,08,725/- vide BG No. 1637617BG0000429 dated 16/05/2017 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	<p>2016-17: 14 nos. of borehole proposed with cumulative depth of 420 meters.</p> <p>2017-18: NIL</p> <p>2018-19: NIL</p> <p>2019-20: NIL</p> <p>2020-21: NIL</p>	<p>2017-18: 14 nos. of borehole drilled with cumulative depth of 650 meters.</p> <p>2018-19: NIL</p> <p>2019-20: NIL</p> <p>2020-21: NIL</p>	-

1b	Exploration over lease area for Geological axis 1 or 2.	No exploration proposal has been given in the approved document during F.Y. 2019-20 and 2020-21.	Not applicable.	As per the approved document, the entire lease area has been explored un G1 level.
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	No exploration proposal has been given in the approved document during F.Y. 2018-19 and 2020-21..	Not applicable.	-
1e	Balance reserves as on 01/04/2020 (in Million Tonnes)	Under (111): 8.014 Million Tonnes Under (211): 4.39 Million Tonnes	Under (111): 8.015 Million Tonnes Under (211): 4.39 Million Tonnes	-
1f	General remarks of inspecting officer on geology, exploration etc.	The mine is temporarily discontinued since 21/06/2019 till date of inspection. From April 2019 to June 2019, total 87575.731 Metric Tonnes of Limestone (ROM) has been produced.		

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)	<p>2019-20: In between UTM Co-ordinates:</p> <p>(1) N2363970 to N2364120 and E539600 to E539666</p> <p>(2) N2364086 to N2364136 and E539636 to E539690</p> <p>(3) N2364150 to N2364260 and E539620 to E539730</p>	<p>2019-20:</p> <p>(1) Production and development was done all over the quarry in irregular and un-scientific manner.</p> <p>(2) Along lease boundary pillar no. 18 to pillar no. 25, the quarry has been extended beyond mining lease area and 7.5 m barrier zone has been mined out.</p> <p>(3) Along lease boundary pillar no. 48 to pillar no. 52, the quarry has been extended beyond</p>	<p>Deviation has been pointed out.</p> <p>The mine is temporarily discontinued since 21/06/2019 till date of inspection.</p> <p>For compliance of the deviations, essential proposals have been</p>

			mining lease area and 7.5 m barrier zone has been mined out.	given in the submitted Review of Mining Plan.
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Topsoil: 01 no. OB: 01 no. Mineral: 02 nos.	Topsoil: 01 no. OB: 01 no. Mineral: 03 nos.	-
2c	Stripping ratio or ore to OB ratio	2019-20: 1:0.06	2019-20: 1:0.058	5158.74 CuM OB has been generated during F.Y. 2019-20
2d	Quantity of topsoil generation in m3	5834.0 CuM Topsoil mixed with OB will be generated during F.Y 2019-20.	5158.74 CuM Topsoil mixed with OB has been generated during F.Y 2019-20 up to July 2019	-
2e	Quantity of overburden generation in m3	5834.0 CuM Topsoil mixed with OB will be generated during F.Y 2019-20.	5158.74 CuM Topsoil mixed with OB has been generated during F.Y 2019-20	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The mine is temporarily discontinued since 21/06/2019 till date of inspection.		

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	2019-20: 87635.00 Metric Tonnes	2019-20: 87575.731 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 during F.Y 2019-20	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 will be generated during F.Y. 2019-20.	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	No method for Ore/Mineral segregation has been proposed in the approved document.	Not applicable.	-
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.: mm and 115 mm Spacing: 3.0 m Burden: 2.5 m Depth: 7.0 m	Dia.: 32 mm and 115 mm Spacing: 3.0 m Burden: 2.5 m Depth: 7.0 m	-
3k	Provision of mining machineries in mineral benches	<ol style="list-style-type: none"> 1. Excavator 01 no. with 1.1 CuM bucket Capacity 2. Tipper/Dumpers 08 nos. with 32 to 10 metric tonne capacity. 3. Drilling Machine 01 no. with 115 mm dia. Capacity 4. Jack Hammer 01 no. with 32 mm dia. capacity. 	<ol style="list-style-type: none"> 1. Excavator 03 no. with 1.0 CuM bucket Capacity 2. Tipper/Dumpers 18 nos. with 30 to 40 metric tonne capacity. 3. Drilling Machine 01 no. with 115 mm dia. Capacity 4. Jack Hammer 01 no. with 32 mm dia. capacity. 5. Water Tanker 01 no. with 9000 liters capacity 6. Dozer 01 no. with 170 HP capacity 	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Mineral/Ore Height: 7.0 m Width: 15.0 m OB/Waste Height: 3.0 m Width: 15.0 m	Mineral/Ore Height: 7.0 m Width: 15.0 m OB/Waste Height: 3.0 m Width: 15.0 m	-
3m	Total area covered under excavation/pits	6.59 Ha. up to end of MMP Period i.e. F.Y. 2020-21	5.78 Ha. up to end of F.Y. 2019-20	-
3n	Ore to OB ratio for the pit/mine during the year	2019-20: 1:0.06	2019-20: 1:0.058	5158.74 CuM OB has been generated during F.Y. 2019-20.

3o	Total area put in use under different heads at the end of year	Pit- 6.59 Ha. Waste/reject- 0.87 Ha. Others- 1.29 Ha. up to end of F.Y. 2020-21	Pit- 5.780 Ha. Waste/reject- 0.679 Ha. Others- 1.912 Ha. up to end of F.Y. 2019-20	Out of 1.912 Ha., 0.622 Ha. area has been utilised under plantation.
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2014-15: NIL Metric Tonnes Yr- 2015-16: NIL Metric Tonnes Yr- 2016-17: 87401.00 Metric Tonnes Yr- 2017-18: 87400.00 Metric Tonnes Yr- 2018-19: 87638.00 Metric Tonnes Yr- 2019-20: 87635.00 Metric Tonnes	Yr- 2014-15: NIL Metric Tonnes Yr- 2015-16: NIL Metric Tonnes Yr- 2016-17: 32.930 Metric Tonnes Yr- 2017-18: 87264.250 Metric Tonnes Yr- 2018-19: 87355.040 Metric Tonnes Yr- 2019-20: 87575.731 Metric Tonnes	Almost 100% production proposal for F.Y 2019-20 has been achieved up to June 2019.
3q	General remarks of inspecting officer on method of mining etc.	The mine is temporarily discontinued since 21/06/2019 till date of inspection.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	2019-20: Generated topsoil and OB will be dumped within the 7.5 m barrier zone with a height of 2.5 m to 3.0 m. along boundary pillar no. 22 to 24 and 31 to 34.	2019-20: Generated topsoil and OB has been dumped within the 7.5 m barrier zone along boundary pillar no. 22 to 24.	Deviation for non achievement of backfilling proposal along boundary pillar no. 31 to 34 has been pointed out.
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	2019-20: 02 nos. at 7.5 m barrier zone along boundary pillar no. 22 to 24 and 31 to 34.	2019-20: 01 no. at 7.5 m barrier zone along boundary pillar no. 22 to 24.	-do-
4c	Number of dumps within lease area and outside lease area	Within lease area: 02 nos.	Within lease area: 01 no.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Proposed beyond ultimate pit limit.	Being done as per proposal.	-

4e	Number of active & alive dumps	Proposed 02 nos. at 7.5 m barrier zone.	Being done so far 01 no. at 7.5 m barrier zone.	-
4f	Number of dead dumps	Proposal has not been given in the approved document.	Not applicable.	-
4g	Number of dumps stabilised	-do-	-do-	-
4h	Whether Retaining wall or garland drain all along dumps are there	Proposal has not been given in the approved document for construction of retaining wall and garland drain.	Not applicable.	-
4i	Length of Retaining wall or garland drain all along dump	-do-	-do-	-
4j	Number of settling ponds	-do-	-do-	-
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 in the approved document for full extraction of the mineral from the lease area before starting backfilling	Backfilling is being done in the earlier mine out area at 7.5 m barrier zone.	-
5b	Area under backfilling of mined out area	2019-20: 0.716 Ha.	Backfilling is being done along boundary pillar no. 22 to 24.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Topsoil mixed with OB will be utilised for backfilling.	Being done as per proposal.	-
5d	Total area fully reclaimed & rehabilitated	2019-20: 0.716 Ha.	Backfilling has been done along boundary pillar no. 22 to 24 during F.Y. 2019-20.	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	The mine is temporarily discontinued since 21/06/2019 till date of inspection.		

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 for F.Y. 2019-20	Submitted information has been cross verified.	-
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 for plantation on the worked out / mined out benches.	Not applicable as on date as the mineral is not mined out completely from the quarry.	-
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 in the approved document.	Not applicable.	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	600 nos. 0.20 Ha. By plantation.	552 nos. 0.123 Ha. By plantation	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal for regular monitoring of Ambient Air Quality, Water Quality and Noise Vibration at Core Zone and Buffer Zone has been given in the approved documents.	Being done as per proposal.	-
6f	General remarks of inspecting officer on PMCP compliance & progressive	The mine is temporarily discontinued since 21/06/2019 till date of inspection.		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposal for grade wise sorting of limestone with above 34% CaO has not been given in the approved document.	Limestone above 34% CaO is directly dispatched from the mineralised working phase.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised sorting of limestone above 34% Cao has been proposed in the approved document through the mechanised means.	Being done as per proposal.	-
7c	Different grade of mineral sorted out at mines	Proposal has been given in the approved document for sorting of limestone with above 34% Cao from the mineralised zone.	Being done as per proposal.	-
7d	Any beneficiation process at mines	No beneficiation process at mines has been proposed in the approved document.	Not applicable.	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The mine is temporarily discontinued since 21/06/2019 till date of inspection.		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	No topsoil will be generated during F.Y. 2019-20.	Negligible quantity of topsoil has been generated during F.Y. 2019-20 and same has been utilised for plantation purpose.	-
8b	Concurrent use or storage of topsoil	-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 overburden and waste rock at earmarked locations.	Being done as per proposal.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the	Overburden and waste rocks will be utilised for ground	Being done as per proposal.	-

	land to its original use	restoration and backfilling at 7.5 m barrier zone.		
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phase restoration and reclamation has been proposed at 7.5 m barrier zone, where the mineral has been mined out.	Being done as per proposal.	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	During F.Y. 2019-20 600 nos. of plants has been proposed for plantation.	During F.Y. 2019-20 552 nos. of saplings has been planted.	-
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 – September 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 Engineer, Geologist and Manager	Mining Engineer: Shri Sanjay Kumar Sharma Geologist: Shri Mallishi Kadlimati Manager: Shri Sanjay Kumar Sharma	Mining Engineer: Shri Sanjay Kumar Sharma Geologist: Shri Mallishi Kadlimati Manager: Shri Sanjay Kumar Sharma	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 5.780 Ha. Waste/reject- 0.679 Ha. Others- 1.912 Ha.	Pit- 5.780 Ha. Waste/reject- 0.679 Ha. Others- 1.912 Ha.	NIL
9d	Scrutiny of Annual return on Afforestation	Within lease area: 747 nos. Outside lease Area: 119 nos.	Within lease area: 552 nos. Outside lease Area: 119 nos.	NIL

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9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral reject: NIL	No mineral reject is present in the mine.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock ROM: NIL Graded Ore: NIL	Closing Stock ROM: NIL Graded Ore: NIL	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: Rs. 0.0 Ex-Mine Price: Rs. 234.67 Cost of Production: Rs. 234.67	Sale Value: Rs. 0.0 Ex-Mine Price: Rs. 234.67 Cost of Production: Rs. 234.67	NIL
9i	Scrutiny of Annual return on fixed assets	Rs. 1818335/-	Rs. 1818335/-	
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:-

Rule 11(1) and 55 of MCDR, 2017

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

Shri Shaival Kartikeya, Jr. Mining Geologist, Date of Inspection: 08/08/2019

Details of the Violations Pointed-out during Inspections:

The present inspection has been done for the processing of the Review of Mining Plan. The mine is temporarily discontinued since 21/06/2019 till date of inspection. Hence, the outstanding violations are not complied sofar. Further, for the compliance of the violation pointed out during previous inspection dated 08/08/2019 under rule 11(1) for non achievement of the backfilling in the proposed area has been incorporated in the submitted Review of Mining Plan.

(Name of the Inspecting Officer and Designation and Date)

(Shaival Kartikeya)
Jr. Mining Geologist
Indian Bureau of Mines, Raipur
Date of Inspection: 15/10/2020