

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	07/08/2019
4	Name of the Mine	Medesara Limestone Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non-Forest: 8.80 Ha. Forest: NIL Total Lease area: 8.80 Ha.
6	Mine Code	38CHG05005
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: philip.mathew@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	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
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Phillip Mathew, Chief Manufacturing Officer, ACC Limited, Cement House, 121, Maharshi Karve Road, Mumbai (Maharashtra) - 400 020

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		Email: philip.mathew@acclimited.com Phone: +91 (0) 22 – 41593507 Fax: +91 (0) 22 – 66317431 Date of Appointment: 27/01/2017
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 Subramani Venkatesh, Qualification: B. E. (Mining) Experience: +12 Years ACC Jamul Cement Works Medesara Mines, Medesara, Village Medesara, Teshil: Dhamdha District: Durg (Chhattisgarh) - 490036, Phone: +91 (0) 7471116120 Fax: +91 (0) 788 – 2282585 Email: subramani.venkatesh@acclimited.com Date of Appointment: 20/09/2016 (Appointment has been shown as Part Time Basis) Deviation has been pointed out.
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 letter, if any.	Mining Plan Approved vide letter no. DRG/LST/MPLN-749/NGP Nagpur dated 15/05/2001 Proposal Period: 2001-02 to 2005-06 Modified Mining Plan approved vide letter no. DRG/LST/MPLN-749/NGP/2016/23-RPR Raipur

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		dated 27/07/2016 Proposal Period: 2016-17 to 2020-21
27	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-749/NGP Nagpur dated 23/10/2007 Proposal Period: 2006-07 to 2010-11 Lapse Period: 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) 50,000 Metric Tonnes Per Year vide letter no. 470/SEAC-CG/EC/Mining/Durg/101 Raipur dated 04/11/2011 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. 2,00,000/- vide BG No. 1637616BG0000446 dated 10/06/2016, valid up to 31/03/2021 Rs. 21,99,400/- vide BG No. 1637617BG0000432 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	2016-17: 06 nos. of boreholes with cumulative depth of 180.00 meters.	2016-17 to 2017-18: 06 nos. of boreholes with cumulative depth of 267.25 meters	-
1b	Exploration over lease area for Geological axis 1 or 2.	No exploration proposal has been given in the approved document during F.Y. 2018-19.	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	No exploration proposal has been given in the approved document during F.Y. 2018-19.	Not applicable.	Part of the lease area has been explored under G1 level of exploration during F.Y. 2016-17 to

				2017-18.
1e	Balance reserves as on 01.04.2019 (in Million Tonnes)	Under (122): 0.3246 Million Tonnes Under (222): 0.23855 Million Tonnes	Under (122): 0.4113 Million Tonnes Under (222): 0.23855 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 S47 to S175 and E25 to E118 With RL 286 to RL 282	2018-19: In between local co-ordinates S47 to S175 and E25 to E118 With RL 285 to RL 272 Development and excavation have been observed along boundary pillar no. BP7 to BP15 at 7.5 m barrier zone without proposal and most of places 7.5m barrier zone has been mined out.	Deviation has been pointed out. In between pillar no. BP 9 to BP 12, working has been extended beyond lease area.
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	2018-19: Topsoil: NIL OB: NIL Mineral/Ore: 01 no.	2018-19: Topsoil: NIL OB: NIL Mineral/Ore: 01 no.	The entire development has been proposed in the existing quarry.
2c	Stripping ratio or ore to OB ratio	1:0.0	1:0.0	-
2d	Quantity of topsoil generation in m3	No topsoil will be generated during F.Y. 2018-19.	Not applicable	-
2e	Quantity of overburden generation in m3	No overburden will be generated during F.Y. 2018-19.	Not applicable	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	NIL		

3.0 Exploitation

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SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	02 nos.	02 nos.	-
3b	Quantity of ROM mineral production proposed	50000.00 Metric Tonnes	24054.00 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 during F.Y. 2018-19.	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 mineral sub-grade 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	Not proposed in the approved document.	Produced ROM is being directly dispatched from the working face after sizing through rock breaker.	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed in the approved document.	Not applicable.	-
3j	Provision of drilling & blasting in mineral benches	Dia: 100 mm Spacing: 2.80 m Burden: 2.70 m Depth: 6.0 m	Dia: 100 mm Spacing: 2.80 m Burden: 2.70 m Depth: 6.0 m	-
3k	Provision of mining machineries in mineral benches	1. Wagon Drill 01 no. with 100 mm dia capacity 2. Jack Hammer 02 nos. with 32 mm dia capacity 3. Compressor 01 no with 625 cfm capacity 4. Shovel/Excavator 01 no. with 1.0 cum bucket capacity 5. Dumpers/Tipp	1. Wagon Drill 01 no. with 100 mm dia capacity 2. Jack Hammer 02 nos. with 32 mm dia capacity 3. Compressor 01 no with 625 cfm capacity 4. Shovel/Excavator 01 no. with 1.0 cum bucket capacity 5. Dumpers/Tippers 06 nos. with 10 tonnes capacity 6. Water Tanker 01	-

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		ers 06 nos. with 10 tonnes capacity 6. Water Tanker 01 no. with 10000 liters capacity 7. Water Pump 02 nos. with 5 HP capacity	no. with 10000 liters capacity 7. Water Pump 02 nos. with 5 HP capacity	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Topsoil: NIL OB: NIL Mineral: 4.0 m	Topsoil: NIL OB: NIL Mineral: 5.0 m to 7.0m	Deviation has been pointed out.
3m	Total area covered under excavation/pits	5.840 Ha. Up to end of plan period	4.560 up to end of F.Y. 2018-19	-
3n	Ore to OB ratio for the pit/mine during the year	1: 0.0	1: 0.0	-
3o	Total area put in use under different heads at the end of year	Pit- 5.840 Ha. Waste/reject- 1.768 ha. Others- 1.39 ha. Up to end of plan period.	Pit- 4.560 Ha. Waste/reject- 1.768 ha. Others- 0.855 ha.	
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: 44250.00 Metric Tonnes Yr- 2017-18: 50000.00 Metric Tonnes Yr- 2018-19: 50000.00 Metric Tonnes	Yr- 2014-15: NIL Metric Tonnes Yr- 2015-16: NIL Metric Tonnes Yr- 2016-17: 31.500 Metric Tonnes Yr- 2017-18: 33455.020 Metric Tonnes Yr- 2018-19: 24054.00 Metric Tonnes	Lapse period 2014-15 to 2015-16.
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)	Dumping of Topsoil and OB has been proposed along the 7.5 m barrier zone.	Being done as per proposal.	-
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	-do-	-do-	-

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4c	Number of dumps within lease area and outside lease area	Topsoil: 01 no. OB: 01 no.	Topsoil: 01 no. OB: 01 no.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Dumping of topsoil and OB has been proposed beyond ultimate pit limit.	Being done as per proposal.	-
4e	Number of active & alive dumps	01 no.	01 no.	-
4f	Number of dead dumps	Proposal has not been given in the approved document for dead dumps.	Not applicable	-
4g	Number of dumps stabilised	Plantation over OB/waste dump and topsoil dump has been proposed at 7.5 m barrier zone.	Being done as per proposal.	-
4h	Whether Retaining wall or garland drain all along dumps are there	Construction of garland drain along dump has been proposed.	Being done as per proposal. Dump height has been maintained less than 3.0 meters.	-
4i	Length of Retaining wall or garland drain all along dump	Not mentioned in the approved document.	Not applicable.	-
4j	Number of settling ponds	Proposal has not been given in the approved document for construction of settling ponds.	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 in the approved document for full extraction of mineral from mined out area before starting backfilling during conceptual period.	Not applicable as on date.	-
5b	Area under backfilling of mined out area	Backfilling has not been proposed in the approved document during	Not applicable.	-

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		plan period.		
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	No topsoil will be generated during F.Y. 2018-19.	Earlier generated topsoil has been utilised for plantation purpose along 7.5 m barrier zone.	-
5d	Total area fully reclaimed & rehabilitated	No reclamation and rehabilitation activities have been proposed in the document during plan period.	Mineral has not been mined out completely.	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling in the mined out area at 7.5m barrier zone along boundary pillars BP 7 to BP 12 is required.		

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 before due date.	Given details have been cross checked in the ground.	
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	0.7440 Ha. 750 nos. NIL 750 nos. By plantation. Not mentioned.	0.7440 Ha. 338 nos. 153 nos. 491 nos. By plantation Rs. 1,76,000/-	Deviation for less plantation 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	Backfilling has not been proposed during plan period.	Not applicable.	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	750 nos. 0.7440 Ha. By plantation.	491 (up to end of F.Y 2018-19) 0.7440 Ha. By plantation.	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for regular monitoring of Ambient Air, Water and Noise Vibration in the core and buffer zone.	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	Proposal for direct dispatch of ROM without grade wise sorting has been proposed in the approved document.	Being done as per proposal.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Grade wise sorting has been proposed in the approved document through mechanised means.	Being done as per proposal.	-
7c	Different grade of mineral sorted out at mines	-do-	-do-	-
7d	Any beneficiation process at mines	No beneficiation process at the mine has been 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)	Separate removal and concurrent utilization of topsoil has been proposed during plan period.	Being done as per proposal.	-
8b	Concurrent use or storage of topsoil	-do-	-do-	-

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumping of overburden has 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	The mined out quarry will be converted in to water reservoir for agricultural purpose for surrounding villagers during conceptual stage.	Not applicable.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposal has not been given in the approved document for phase restoration of the lands.	Not applicable.	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	During F.Y. 2018-19, 153 nos. of saplings have been planted within lease area.	Total 491 nos. of saplings have been planed during plan period.	-
8g	Survival rate	Not mentioned in the approved document.	Approx 80%	-
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads has been proposed through water tanker.	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 – July 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 Subramani Venkatesh Geologist: Shri Mallishi Kadlimati Manager: Shri Sanjay Kumar Sharma	Mining Engineer: Shri Subramani Venkatesh Geologist: Shri Mallishi Kadlimati Manager: Shri Sanjay Kumar Sharma	Appointment of Mining Engineer and a Geologist has been shown as part time. Deviation has been pointed out.

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 4.560 Ha. Waste/reject- 1.768 ha. Others- 0.855 ha.	Pit- 4.560 Ha. Waste/reject- 1.768 ha. Others- 0.855 ha.	NIL
9d	Scrutiny of Annual return on Afforestation	Within lease area: 153 nos. Outside lease Area: 50 nos.	Within lease area: 153 nos. Outside lease Area: 50 nos.	NIL
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	Quantity of closing stock has been obtained from the monthly submitted returns for the month of July 2019
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: Rs. 8491978.00 Ex-Mine Price: Rs. 353.03 Cost of Production: Rs. 353.03	Sale Value: Rs. 8491978.00 Ex-Mine Price: Rs. 353.03 Cost of Production: Rs. 353.03	(1) For computation of cost of production, cost of transportation from mining lease up to the captive plant should not be added. (2) For captive use of mineral/ore, Sale value should be mentioned as 'Zero' (3) Value of Depreciation is similar for both mining leases.
9i	Scrutiny of Annual return on fixed assets	Rs. 1952133/-	Rs. 1952133/-	Value of Fixed Assets has been given

				similar to another mining lease i.e. 38CHG05003 (17.90 Ha.)
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 violation.

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

Shri J. S. Hada, Asstt. Mining Geologist, Date of Inspection: 16/12/2017.

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 approved Modified Mining Plan vide letter no. DRG/LST/MPLN-749/NGP/2016/23RPR Raipur dated 27/07/2016 for the period of 2016-17 to 2020-21: Development: (i) Along boundary pillar no. BP7 to BP15 at 7.5 m barrier zone without proposal and most of places 7.5m barrier zone has been mined out. (ii) In between pillar no. BP 9 to BP 12, working has been extended beyond lease area. Afforestation: There was a proposal given for plantation of 750 nos. of plants during 2016-17. Whereas, 491 nos. of the plants have been planted.
Rule 33	06 nos. of boreholes drilled during F.Y. 2016-17 to 2017-18 have not been shown the submitted Geological Plan and Sections.
Rule 45 (7)	Annual Return 2018-19: Part IIA: Capital Structure Value of Fixed Assets (in ₹) 1952133.00 has been given similar to the another mining lease i.e. 38CHG05003 (17.90 Ha.). Part VI: Production, Dispatches And Stock 3. (i) Since the mineral is not pulverised within lease area, hence, the Average cost of Pulverization may not be given. 5. For captive use of mineral/ore, Sale value should be mentioned as 'Zero'. Part VII: Cost of Production: (i) For computation of cost of production, cost of transportation from mining lease up to the captive plant should not be added. (ii) Value of Depreciation is similar for both mining leases i.e. (38CHG05005 & 38CHG05003)
Rule 55	Full-time Mining Engineer and a Geologist are 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: 07/08/2019