

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 Radhe Shyam Ray, Chief Manager (Mines) Shri Deepak Kumar, Manager (Mines)
3	Date of inspection	13/08/2019
4	Name of the Mine	Pathariya Limestone Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: NIL Non-Forest: 37.85 Ha. Total Lease Area: 37.85 Ha.
6	Mine Code	38MPR13007
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/256/2011
8	Name of the lessee, Address, phone, email and fax number	ACC Limited Cement House, 121, Maharshi Karve Road, Mumbai – 400020 Phone: +91(0) 22-33024321 Fax: +91 (0) 22- 66317458 Email: neeraj.akhoury@acclimited.com
9	Village	Pathariya
10	Taluka / Mandal / District	Tehsil: Dhamdha, District: Durg
11	State	Chhattisgarh
12	Post office & PIN	Medesara, Pin Code: 490036
13	Nearest police station	Nandini Nagar
14	Nearest Railway station	Durg
15	Date of Grant of Mining Lease	22/05/1973 to 21/05/1993 (20 Years)
16	Date of Execution	22/05/1973
17	Date of opening of Mine	20/08/1978
18	Date of first Renewal, if applicable and its period & expiry	22/05/1993 to 21/05/2003 (10 Years)
19	Date of second Renewal, if applicable and its period & expiry	22/05/2003 to 21/05/2023 (20 Years)
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	As per section 8A of MMDR Amendment Act, 2015, the mining lease period has been extended up to 31/03/2030 (For Captive Leases) 22/05/2023 to 31/03/2030 (07 Years) Supplementary lease agreement for extended period has been made on 21/12/2016.
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Neeraj Akhouri, MD & CEO ACC Limited Cement House, 121, Maharshi Karve Road, Mumbai – 400020 Phone: +91(0) 22-33024321 Fax: +91 (0) 22- 66317458 Email: neeraj.akhoury@acclimited.com Date of Appointment: 04/02/2017 (Notice of Appointment has not been sent)

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22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Vaibhav Dixit, Director Plant ACC Limited, P.O. Jamul Cement Works, Jamul, Bhilai, District Durg (Chhattisgarh) – 490 024 Phone: +91 (0) 788-2285081 to 2285085 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 Deepak Kumar ACC Limited, P.O. Jamul Cement Works, Jamul, Bhilai, District Durg (Chhattisgarh) – 490 024 Phone: +91 (0) 788-2285081 to 2285085 Fax: +91 (0) 788-2282585 Mobile: +91 (0) 9752099803 Email: deepak.kumar@acclimited.com Date of Appointment: 01/04/2019
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Amitabh Choudhary Qualification: B.E. (Mining) Experience: +11 Years ACC Limited, P.O. Jamul Cement Works, Jamul, Bhilai, District Durg (Chhattisgarh) – 490 024 Phone: +91 (0) 788-2285081 to 2285085 Fax: +91 (0) 788-2282585 Mobile: +91 (0) 9109917185 Email: amitabh.choudhary@acclimited.com Date of Appointment: 28/04/2017
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Shri Yogesh Banwade Qualification: M.Sc. Tech. (Geology) Experience: +02 Years ACC Limited, P.O. Jamul Cement Works, Jamul, Bhilai, District Durg (Chhattisgarh) – 490 024 Phone: +91 (0) 788-2285081 to 2285085 Fax: +91 (0) 788-2282585 Mobile: +91 (0) 9755013664 Email: yogesh.banwade@acclimited.com Date of Appointment: 20/01/2017
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-150/NGP Nagpur dated 29/08/1991 Proposal Period: 1991-92 to 1995-96 Mining Plan approved vide letter no. 314(3)/2002-MCCM(CZ)/MP-1/NGP Nagpur dated 25/10/2002 Proposal Period: 2001-02 to 2005-06 Modified Mining Plan approved vide letter no. 314(3)/2002-MCCM(CZ)/MP-9/NGP Nagpur dated 11/03/2006 Proposal Period: 2005-06 to 2007-08 Modified Mining Plan approved vide letter no. DRG/LST/MPLN-1117/2017/RPR Raipur dated 06*11/2017 Proposal Period: 2018-19 to 2022-23

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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. 314(3)/96/MCCM(CZ)/MP/SOM-18/NGP Nagpur dated 11/12/1996 Proposal Period: 1996-97 to 2000-01 Scheme of Mining approved vide letter no. 314(3)/2007/MCCM(CZ)/S-3/NGP Nagpur dated 14/05/2008 Proposal Period: 2008-09 to 2012-13 Scheme of Mining approved vide letter no. 314(3)/2012/MCCM(CZ)/MS-42/NGP Nagpur dated 04/10/2013 Proposal Period: 2013-14 to 2017-18
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 0.84 Million Tonnes Per Annum obtained from State Level Environment Impact Assessment Authority, Ministry of Environment, Forest and Climate Change, Government of India vide letter no. 4296/SEIAACG/EC/MINE/DURG/785 Raipur dated 04/12/2015. Valid up to 31/03/2030.
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Rs. 72,98,100/- Vide BG No. 560GT01172970001 dated 24/10/2017 valid up to 31/03/2023.

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 proposal has been given in the approved document during F.Y. 2018-19.	Not applicable.	As per document the entire lease area has been explored under G1 level.
1b	Exploration over lease area for Geological axis 1 or 2.	-do-	-do-	-do-
1c	Exploration Agency & Expenditure in lakh Rupees during the year	-do-	-do-	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	-do-	-do-	-do-
1e	Balance reserves as on 01.04.2019 (in Million Tonnes)	Under (111): 38.50 Million Tonnes Under (211): 10.76 Million Tonnes	Under (111): 38.88 Million Tonnes Under (211):	

			10.76 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 UTM co-ordinates (1) N2365226 to N2365582 and E538690 to E538970 (2) N2365092 to N2365372	Whereas, development and production has been done at several places in between UTM co-ordinates N2365128 to N2365562 and E538690 to E539120	Deviation has been pointed out.
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Topsoil: 01 no. OB: 01 no. Mineral: 05 nos.	Topsoil: 01 no. OB: 01 no. Mineral: 05 nos.	-
2c	Stripping ratio or ore to OB ratio	1:0.10	1:0.08	-
2d	Quantity of topsoil generation in m3	4987 CuM	Negligible quantity of topsoil has been generated during F.Y. 2018-19 and same has been utilised for plantation purpose.	-
2e	Quantity of overburden generation in m3	74809 CuM	36203 CuM	-
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 no.	01 no.	-
3b	Quantity of ROM mineral production proposed	838138.00 Metric Tonnes	455097.220 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 Plan Period.	No mineral reject present within lease area. The entire ROM has been consumed in the captive plant.	
3e	Grade of mineral reject generation and threshold	Not mentioned in the approved	Not applicable	

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	value declared	document.		
3f	Quantity of sub-grade mineral generation	No mineral sub-grade will be generated during Plan Period.	No mineral sub-grade present within lease area. The entire ROM has been consumed in the captive plant.	
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 has been proposed in the approved document for segregation of ROM.	Screened bucket has been installed in the excavator for segregation of ore from waste ore.	As and when required, the process will be adopted.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study or analysis has been proposed in the approved document during Scheme period.	Not applicable.	-
3j	Provision of drilling & blasting in mineral benches	Dia: 115 mm Spacing: 2.5 m Burden: 4.5 m Depth: 7.0 m	Dia: 115 mm Spacing: 2.5 m Burden: 4.5 m Depth: 7.0 m	-
3k	Provision of mining machineries in mineral benches	1. Wagon Drills 02 nos. with 115 mm dia capacity 2. Hydraulic Excavator 01 nos. with 4.0 CuM bucket size and 400 HP capacity 3. Hydraulic Excavator 01 nos. with 3.5 CuM bucket size and 380 HP capacity 4. Hydraulic Excavator 01 nos. with 2.6 CuM bucket size and 260 HP capacity 5. Dumpers/Tippers 35 nos. with 25 metric tonnes capacity.	1. Wagon Drills 02 nos. with 115 mm dia capacity 2. Hydraulic Excavator 01 nos. with 4.0 CuM bucket size and 400 HP capacity 3. Hydraulic Excavator 01 nos. with 3.5 CuM bucket size and 380 HP capacity 4. Hydraulic Excavator 01 nos. with 2.6 CuM bucket size and 260 HP capacity 5. Dumpers/Tippers 35 nos. with 25 metric tonnes capacity.	-

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height OB: 1.0 m to 3.0 m Ore/Mineral: 6.0 m to 8.0 m Width: OB & Ore: 15.0 m to 20.0 m	Height OB: 1.0 m to 3.0 m Ore/Mineral: 6.0 m to 8.0 m Width: OB & Ore: 15.0 m to 20.0 m	-
3m	Total area covered under excavation/pits	17.86 Ha. up to end of plan period.	12.730 Ha. up to end of F.Y. 2018-19	-
3n	Ore to OB ratio for the pit/mine during the year	1:0.10	1:0.08	-
3o	Total area put in use under different heads at the end of year	Pit- 17.86 Ha. Waste/reject- 3.11 Ha. Others- 4.377 Ha. Up to end of plan period.	Pit- 12.730 Ha. Waste/reject- 1.48 Ha. Others- 1.437 Ha. Up to end of F.Y. 2018-19	-
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2014-15: 54000.00 Metric Tonnes Yr- 2015-16: 840000.00 Metric Tonnes Yr- 2016-17: 840000.00 Metric Tonnes Yr- 2017-18: 840000.00 Metric Tonnes Yr- 2018-19: 838138.00 Metric Tonnes	Yr- 2014-15: 15018.21 Metric Tonnes Yr- 2015-16: 17831.66 Metric Tonnes Yr- 2016-17: 377730.22 Metric Tonnes Yr- 2017-18: 622166.74 Metric Tonnes Yr- 2018-19: 455097.22 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)	Separate dumping of topsoil, OB/Waste, Mineral/Ore and Mineral Reject has been proposed in the approved document.	Being done as per proposal.	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	In between UTM co-ordinates OB/Waste: N2365002 to N2365125 and	In between UTM co-ordinates OB/Waste: N2365002 to N2365125 and	-

		E538200 to E538330 Mineral Reject: N2365068 to N5365112 and E538350 to E538420 Mineral: N2365450 to N2365575 and E538640 to E538700	E538200 to E538330 Mineral Reject: N2365068 to N5365112 and E538350 to E538420 Mineral: N2365450 to N2365575 and E538640 to E538700	
4c	Number of dumps within lease area and outside lease area	Within lease area Mineral/Ore: 01 no. OB/Waste: 01 no. Reject: 01 no.	Within lease area Mineral/Ore: 01 no. OB/Waste: 01 no. Reject: 01 no.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Location of dumps has been proposed beyond ultimate pit limit.	Situated beyond ultimate pit limit.	-
4e	Number of active & alive dumps	Active: 02 nos.	Active: 02 nos.	-
4f	Number of dead dumps	No dead dumps has been mentioned and proposed in the approved document.	No dead dumps present within lease area.	-
4g	Number of dumps stabilised	Proposal has not been given in the approved document.	Not applicable.	-
4h	Whether Retaining wall or garland drain all along dumps are there	Proposal has been given in the approved document for construction of parapet wall and garland drain along waste dumps.	Constructed along waste dump.	-
4i	Length of Retaining wall or garland drain all along dump	226 meters along waste dumps	551 meters along waste dump.	-
4j	Number of settling ponds	Proposal has not been given in the approved document for construction of settling tanks.	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 for full extraction of mineral from mined out area before starting backfilling has been given in the approved document during conceptual stage.	Not applicable as on date.	-
5b	Area under backfilling of mined out area	Proposal has not been given for backfilling.	Area not matured for backfilling.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Proposal has been given in the approved document for concurrent use of topsoil for restoration of the ground.	Being done as per proposal.	-
5d	Total area fully reclaimed & rehabilitated	Proposal for reclamation and rehabilitation has not been given 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.	Yes, submitted on time in the prescribed format.	The given 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	0.114 Ha. 0.114 Ha. 300 nos. 300 nos. By plantation Not mentioned in the approved document.	0.06 Ha. 0.06 Ha. 300 nos. 300 nos. By plantation Rs. 1,30,000/-	-

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 for reclamation and rehabilitation has not been given 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	Proposal for reclamation and rehabilitation has not been given in the approved document.	Area not matured for reclamation and rehabilitation.	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been in the approved document for regular monitoring of environmental parameters at 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	Sorting of oversize boulders from the reject dumps has been proposed in the approved document.	Being done as per proposal.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual method will be adopted for segregation of limestone boulders from the reject dumps.	Being done as per proposal. Screened bucket has been installed in the excavator for sorting.	-
7c	Different grade of mineral sorted out at mines	-do-	-do-	-
7d	Any beneficiation process at mines	Proposal has not been given in the approved document for beneficiation at the mine.	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 has been given in the approved document for separate removal of topsoil and its utilization.	Being done as per proposal.	-
8b	Concurrent use or storage of topsoil	Proposal has been given in the approved document for concurrent use of topsoil.	Being done as per proposal.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Dumping of Topsoil, Overburden, Mineral, Mineral Sub-grade and Mineral reject have not been proposed in the approved document.	Not applicable.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposal has not been given in the approved document.	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 reclamation and rehabilitation in the mined out area.	Area not matured for reclamation and rehabilitation.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	2018-19: 300 nos. saplings will be planted.	2018-19: 300 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	Proposal has been given in the approved document for water sprinkling on roads 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

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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 Amitabh Choudhary Geologist: Shri Yogesh Banwade Manager: Shri Radhe Shyam Ray	Mining Engineer: Shri Amitabh Choudhary Geologist: Shri Yogesh Banwade Manager: Shri Deepak Kumar	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 12.730 Ha. Waste/reject- 1.48 Ha. Others- 1.437 Ha.	Pit- 12.730 Ha. Waste/reject- 1.48 Ha. Others- 1.437 Ha.	NIL
9d	Scrutiny of Annual return on Afforestation	300 nos.	300 nos.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject: NIL Grade: NIL	Mineral Reject: NIL Grade: NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: NIL Graded Ore: NIL	ROM: NIL Graded Ore: NIL	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: Rs. 0.0 Ex. Mine Price: Rs. 215.25 Per Metric Tonne Cost of Production: Rs. 215.25 Per Metric Tonne	Sale Value: Rs. 0.0 Ex. Mine Price: Rs. 215.25 Per Metric Tonne Cost of Production: Rs. 215.25 Per Metric Tonne	(1) Cost of Production is similar for both leases i.e. 38MPR130 07 and 38MPR130 08. (2) Value of Depreciation is similar for both mining leases. (3) Since the mineral is not pulverised within lease area, hence, the Average cost of Pulverization may not be given.
9i	Scrutiny of Annual return on fixed assets	Rs. 17772046.00	Rs. 17772046.00	Value of Fixed Assets (in ₹) 17772046.00 has been

				given similar to the another mining lease i.e. 38MPR13008 (37.85 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 violations.

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

Shri R. N. Mishra, Sr. Mining Geologist, Date of inspection: 28/09/2018

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 approved Modified Mining Plan vide letter no. DRG/LST/MPLN-1117/RPR Raipur dated 06/11/2017 for the period of 2018-19 to 2022-23: Development: There was a proposal given for development and excavation of mineral/ore During F.Y. 2018-19: In between UTM co-ordinates (1) N2365226 to N2365582 and E538690 to E538970 (2) N2365092 to N2365372 Whereas, development and production has been done at several places in between UTM co-ordinates N2365128 to N2365562 and E538690 to E539120
Rule 27 (1)	Financial Year 2018-19: It has been found that as per approved Modified Mining Plan, 25.347 Ha. lease area has been considered for calculation of Financial Assurance up to the end of the Plan Period whereas, Financial Assurance in the form of Bank Guarantee has been submitted for 24.327 Ha. Financial Assurance in the form of Bank Guarantee for 1.02 Ha. lease area has to be submitted under rule 27(1) of MCDR, 2017 to the authorized officer.
Rule 45 (7)	Annual Return 2018-19: Part IIA: Capital Structure Value of Fixed Assets (in ₹) 17772046.00 has been given similar to the another mining lease i.e. 38MPR13008 (37.85 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. Part VII: Cost of Production: Cost of Production is similar for both leases i.e. 38MPR13007 and 38MPR13008.
Rule 46	Notice of Certain Appointment: Appointment notice of Nominated Owner has not been sent in the prescribed format to the authorized officer within fifteen days from the date of such appointments. .

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(Name of the Inspecting Officer and Designation and Date)

(Shaival Kartikeya)
Jr. Mining Geologist
Indian Bureau of Mines, Raipur