

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of inspecting office & designation	Rajesh Kumar Das, Sr. Asstt. Controller of Mines Indian Bureau of Mines, Raipur
2	Accompany with Mine Officials	Shri. Radhe Shyam Ray, Chief Manager (Mines) Shri Mallishi kadlimati, Qualified Person
3	Date of inspection	12.10.2020
4	Name of the Mine	Pathariya Limestone Mine (Lease – I)
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	36.001 Ha, Forest Land: Nil. Non-forest land : 36.001 Ha
6	Mine Code	38MPR13008
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, Jamul Cement Works , Durg, CG-490024 Ph:0788-2285081 to 2285085 Mail. id : b.sridhar@acclimited.com
9	Village	Pathariya
10	Taluka / Mandal / District	Taluka/ Mandal : Dhamdha District : Durg
11	State	Chattisgarh
12	Post office & PIN	Madesara 490036
13	Nearest police station	Nandini Nagar
14	Nearest Railway station	Durg
15	Date of Grant of Mining Lease	03/03/1971
16	Date of Execution	14/05/1971
17	Date of opening of Mine	03/08/1971
18	Date of first Renewal, if applicable and its period & expiry	14.05.1991 to 13.05.2001
19	Date of second Renewal, if applicable and its period & expiry	14/05/2001 to 13/05/2021
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 lease) 14/05/2021 to 31/03/2030 (09 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	Mr. Sridhar Balakrishnan (Nominated owner) ACC Limited, Cement House, 121, Maharshi Karve Road, Mumbai, 400020 Ph:02233024321 Fax: 02266317458 Mail. id : b.sridhar@acclimited.com Date of appointment: 21/02/2020
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Vaibhav Dixit, Agent & Director Plant Jamul cement Works, ACC Limited, Durg, CG-490024 Ph:0788-2285081 to 2285085 Fax: 0788 2282585 Mail. id: 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	Mr. Radhe Shyam Ray , Manager Pathariya limestone mines, ACC Limited, PO-Jamul cement works,Bhilai,Dist-Durg,CG,PIN-490024, Email id: radheshyam.ray@acclimited.com Mob: 09816616929 Date of appointment: 15.05.2017

24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Swaraj Mishra , B-Tech(Mining), Total exp-8 yrs, ACC Limited, Jamul cement works ,PO-Jamul cement works,Bhilai,Dist-Durg,CG,PIN-490024, Email.id: swaraj.mishra@acclimited.com Mob: 08917283702 Date of appointment: 28.03.2019
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Mr. Pankaj Netke, M.Sc-Tech(Geology), Total exp-8 yrs, ACC Limited, Jamul cement works ,PO-Jamul cement works,Bhilai,Dist-Durg,CG,PIN-490024, Email.id: pankaj.netke@acclimited.com Mob: 7024233143 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. 314(3)/2000 MCCM (CZ)/MP-21 Nagpur dated 08/10/2001 Proposal Period: 2001-02 to 2005-06
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)/2005-MCCM(CZ)/S-4 Nagpur dated 11/03/2006 Proposal period 2006-07 to 2010-11 Scheme of Mining approved vide letter no. DRG/LST/MPLN-183/NGP Nagpur dated 15/02/2016 Proposal period: 2016-17 to 2020-21
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	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, vide letter no. 530/SEIAACG/EC786 Raipur dated 05/07/2016 valid up to 31/03/2030.
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Rs. 7,13,400/- Vide BG No. 1637615BG0001061 Dated 31/12/2015 valid up to 31/03/2021. Rs. 85,60,800/- Vide BG No. 16376170000444 Dated 19/05/2017 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	Not Proposed	Nil	Entire lease area has been explored under G1 Level.
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	Nil	
1e	Balance reserves as on 01.04.2020 (in Million Tonnes)	Under (111):-25.61 Under (211):-5.74	Under (111):-26.45 Under (211):-5.74	
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)	Not Proposed	Nil	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Top soil: NIL OB:NIL Mineral:06 nos	Top soil: NIL OB:NIL Mineral:06nos	
2c	Stripping ratio or ore to OB ratio	1:0.0	1:0.0	
2d	Quantity of topsoil generation in m3	No topsoil present within the Lease area.	Negligible quantity of topsoil has been generated during F.Y. 2019-20 and same has been utilized for plantation purpose.	
2e	Quantity of overburden generation in m3	Nil	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The limestone is already exposed and no major development is required.		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	841000 Metric Tonnes	834254.92 Metric Tonnes	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	Captive use
3d	Quantity of mineral reject	No mineral reject	NA	

	generation	generated during scheme period		
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	NA	
3f	Quantity of sub-grade mineral generation	Not Proposed	NA	
3g	Grade of sub-grade mineral generation	Not Proposed	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Not Proposed	NA	Nil
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation proposed.	NA	
3j	Provision of drilling & blasting in mineral benches	Dia: 115 mm Spacing: 2.5 m Burden: 4.5 m Depth: 6-8 m	Dia: 115 mm Spacing: 2.5 m Burden: 4.5 m Depth: 6-8 m	
3k	Provision of mining machineries in mineral benches	1. Hydraulic Excavator 02 nos. with 400 HP and 2.8 CuM bucket capacity 2. Hydraulic Excavator 01 nos. with 200 HP 3. Wagon Drill 02 nos. with 115 mm dia capacity 4. Compressor 02 nos. with 450 CFM capacity 5. Dozer 01 no. with 340 HP capacity 6. Jeep 01 no. with 120 BHP capacity 7. Water Tanker 01 no. with 5000 liters capacity 8. Truck 01 no. with 10 metric tonnes capacity 9. Explosive Van 01 no. with 10	1. Hydraulic Excavator 02 nos. with 400 HP and 2.8 CuM bucket capacity 2. Hydraulic Excavator 01 nos. with 200 HP 3. Wagon Drill 02 nos. with 115 mm dia capacity 4. Compressor 02 nos. with 450 CFM capacity 5. Dozer 01 no. with 340 HP capacity 6. Jeep 01 no. with 120 BHP capacity 7. Water Tanker 01 no. with 10000 liters capacity 8. Truck 01 no. with 10 metric tonnes capacity 9. Explosive Van 01 no. with 10 tonnes capacity 10. Water Pump 01 no. with 200 HP,	

		Tonnes capacity 10. Water Pump 01 no. with 25 HP	submersible pump 50HP	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Topsoil: NIL Overburden: NIL Mineral: 06 to 08 meters.	Topsoil: NIL Overburden: NIL Mineral: 06 to 08 meters	
3m	Total area covered under excavation/pits	27.32 Ha up to end of Scheme Period i.e. up to F.Y 2020-21	26.0 Ha up to end of FY 2019-20	
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 – 27.32 Ha Others-(Occupied by building,residential, welfare building & Roads)- 1.216 ha	Covered under excavation – 26.0 ha Others- (Occupied by building,residential,welfare building & Roads)- 0.9 Ha & Plantation(Over Bund)-1.0 Ha	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2015-16: 600000 MT Yr- 2016-17: 840250 MT Yr- 2017-18: 843750 MT Yr-2018-19: 841250 MT Yr-2019-20:841000	Yr-2015-16: 388703.92 MT Yr- 2016-17: 657683.89 MT Yr- 2017-18: 697659.5 MT Yr- 2018-19: 794559.08 MT Yr-2019-20: 834254.92 MT	
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is opencast using shovel Dumper Combination and Crusher is installed near captive Cement Plant approx 20 km away from mine therefore the Rom is directly dispatched from mine.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Not Proposed	NA	No dumps have been found within the lease area.
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Not Proposed	NA	
4c	Number of dumps within lease area and outside lease	Not Proposed	NA	

	area			
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Not Proposed	NA	
4e	Number of active & alive dumps	Not Proposed	NA	
4f	Number of dead dumps	Not Proposed	NA	
4g	Number of dumps stabilised	Not Proposed	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	NA	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	NA	
4j	Number of settling ponds	Not Proposed	NA	
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	Not Proposed	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	No top soil present within the lease area	Negligible quantity of topsoil has been generated during F.Y. 2019-20 and same has been utilised for Plantation purpose.	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The area is not matured for backfilling.		

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 on time	Submitted on time	

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	i) Nil ii) 1.8 iii) 1000 nos iv) 4000 v) Nil vi) Not proposed	i) Nil ii) 1.0 Ha iii) 1000 nos iv) 3716 Approx v) Nil vi) 1.8 Lakhs	
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	Not Proposed	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not Proposed	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for regular monitoring of environmental parameters at core & buffer zones	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	ROM Mineral will be directly dispatched to the captive plant from the lease area, without sorting.	Being done as per proposal.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No method has been proposed in the approved document	NA	

		for grade-wise sorting.		
7c	Different grade of mineral sorted out at mines	Not Proposed	NA	
7d	Any beneficiation process at mines	No beneficiation process at the mine has been proposed in the approved document.	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM Mineral will be directly dispatched to the captive plant from the lease area.		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	No topsoil present within the lease area.	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	Not proposed	NA	
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.	NA	
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.	NA	
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.	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	2019-20: 1000 nos. saplings will be planted.	2019-20: 1000 nos. saplings will be planted.	
8g	Survival rate	Not Proposed	85%	
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water	Being done as per proposal	

		sprinkling on roads through water tanker.		
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 – Aug 2020 A.R. submitted upto- FY 2019-20	

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 Swaraj Mishra Geologist: Shri Pankaj Netke Manager: Shri Radhe Shyam Ray	Mining Engineer: Shri Swaraj Mishra Geologist: Shri Pankaj Netke Manager: Shri Radhe Shyam Ray	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 26.0 Ha. Waste/reject – 0.0 Ha. Others- 1.216 Ha.	Pit- 26.0 Ha. Waste/reject – 0.0 Ha. Others- 0.9 Ha. Plantation:1.0 Ha	
9d	Scrutiny of Annual return on Afforestation	Within lease Area:1000 Nos.	Within lease area: 1000nos. Outside Lease area: 400nos.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject: Nil Grade: Nil	Mineral Reject: Nil Grade: Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock: Nil Grade: Nil	ROM Stock: Nil Grade: Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production/Ex. Mine Price:-202.84/Tonne	Cost of production/Ex. Mine Price:-202.84/Tonne	
9i	Scrutiny of Annual return on fixed assets	Rs. 286796127/-	Rs. 286796127/-	Combined asset of Pathariya lease I (38MPR13008) and Lease II (38MPR13007)
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:-

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

Shri. R.N.Mishra, Sr. Mining Geologist, Date of Inspection 05/03/2020 and during the inspection no violations pointed out.

Details of the Violations Pointed-out during Inspections: The present inspection is carried out for processing of Review of Mining Plan and the short comings observed given in scrutiny for rectification and no serious violation observed.

(Rajesh Kumar Das, Senior Assistant Controller of Mines)