

**MCDR INSPECTION REPORT****1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	Rajesh Kumar Das, Sr. Assistant Controller of Mines, Indian Bureau of Mines, Raipur
2	Accompany with Mine Officials	Shri Radheshyam Ray(Chief Manager),Amitabh Chaudhry(Mining Engineer), Yogesh Banwade(Geologist)
3	Date of inspection	01.12.2020
4	Name of the Mine	Pathariya Limestone Mine ( Lease – II )
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	37.85 Ha, Forest Land: Nil. Non-forest land : 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	Mr Sridhar Balakrishnan (Nominated owner) ACC Limited, Jamul Cement Works , Durg, CG-490024 Ph:0788-2285081 to 2285085 Mail. id : <b><i>b.sridhar@acclimited.com</i></b>
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	24.11.1972
16	Date of Execution	22.05.1973
17	Date of opening of Mine	20.02.1978
18	Date of first Renewal, if applicable and its period & expiry	22.05.1993 to 21.05.2003
19	Date of second Renewal, if applicable and its period & expiry	22.05.2003 to 21.03.2030 (As per letter no.- 1898/khanij/2016,Durg-dated- 21.12.2016,D.C.Office,C.G.)
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	Mr Sridhar Balakrishnan (Nominated owner) ACC Limited, Cement House, 121, Maharshi Karve Road, Mumbai, 400020 Ph:02233024321 Fax: 02266317458 Mail. id : <b><i>b.sridhar@acclimited.com</i></b> 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: <a href="mailto:vaibhav.dixit@acclimited.com">vaibhav.dixit@acclimited.com</a> Date of appointment: 01/07/2018
23	Name of the Mines Manager	Mr. Deepak Kumar , Manager

	with Address, phone, email, fax number and date of appointment in mines	Pathariya limestone mines, ACC Limited, PO-Jamul cement works, Bhilai, Dist-Durg, CG, PIN-490024, Email id: <a href="mailto:deepak.kuamr@acclimited.com">deepak.kuamr@acclimited.com</a> Mob: 06260292478 Date of appointment: 07.03.2016
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24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Amitabh Chaudhury , B.E.(Mining), Total exp-13 yrs, ACC Limited, Jamul cement works ,PO-Jamul cement works, Bhilai, Dist-Durg, CG, PIN-490024, Email id: <a href="mailto:amitabh.choudhary@acclimited.com">amitabh.choudhary@acclimited.com</a> Mob: 09109917185 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.	Mr. Yogesh Banwade, M.Sc-Tech(Geology), Total exp-10 yrs, ACC Limited, Jamul cement works ,PO-Jamul cement works, Bhilai, Dist-Durg, CG, PIN-490024, Email id: <a href="mailto:pankaj.netke@acclimited.com">pankaj.netke@acclimited.com</a> Mob: 9755013664 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.	314(3)/2005-MCCM(CZ)/MP-9 dated 11.03.2006 Period – (2005-06 to 2007-08)
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	SOM DURG/LST/MPLN-1117/2017-RAIPUR/692, dated 06.11.2017 Period-(2018-19 to 2022-23)
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)	Fully Mechanised
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	840000 MT 31 <sup>st</sup> mar 2030
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Valid

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	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	

1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 01.04.2020 (in Million Tonnes)	37.66	37.87	
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)	No additional area for development proposed and excavation for production is proposed in existing pit	No specific quantity envisaged. Encountered quantity to be dumped in parapet wall	Quantity encountered in top bench is used for strengthening parapet wall
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Benches proposed in Mineral only	Actual benches maintained in mineral limestone	
2c	Stripping ratio or ore to OB ratio	0.10	0.07	
2d	Quantity of topsoil generation in m <sup>3</sup>	3656	Negligible quantity	
2e	Quantity of overburden generation in m <sup>3</sup>	81048	45091	
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	833768 t	675426 t	Year 2019-20
3c	Recovery of salable/usable mineral from ROM production	Nil	Nil	Captive use
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Nil	Nil	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and	N.A.	N.A.	

	reject			
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling blasting by using Nonel	Deep hole drilling blasting by using Nonel	
3k	Provision of mining machineries in mineral benches	Hyd.Excavator-3 Hyd Rock Breaker-1 Drill Machine- 2 Dozer -1 Water tanker-1 Explosive van-1 Maintenance van-1	Hyd.Excavator-3 Hyd Rock Breaker-1 Drill Machine- 2 Dozer -1 Water tanker-1 Explosive van-2 Maintenance van-1	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Benches proposed in Mineral only	Maintaining benches as per SOM	
3m	Total area covered under excavation/pits	16.35 Ha (In the end of the scheme period)	13.77 Ha	As per production requirement
3n	Ore to OB ratio for the pit/mine during the year	0.10	0.07	
3o	Total area put in use under different heads at the end of year	Covered under excavation – 13.31 ha Occupied by building, residential, welfare building , Roads, dump- 1.182 ha	Covered under excavation – 13.63 ha Occupied by building, residential, welfare building & Roads,dump- 2.85 ha	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2016-17: 8.40 LT Yr- 2017-18: 8.43 LT Yr- 2018-19: 8.41 LT Yr-2019-20:8.34 LT	Yr- 2016-17: 6.57 LT Yr- 2017-18: 6.97 LT Yr- 2018-19: 7.94 LT Yr- 2019-20: 6.75 LT	
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)	Yes	Yes	Top soil generated , utilised for plantation
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local	X538285 Y538330 X2365120	Only OB generation and dump broadly as per proposal.	

	Coordinate/Plot No./Location)	Y2365011		
4c	Number of dumps within lease area and outside lease area	Within Lease :1 Outside Lease: Nil	Within Lease :1 Outside Lease: Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Outside ultimate pit limit	Outside ultimate pit limit	
4e	Number of active & alive dumps	01	01	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Retaining wall and drain maintained around the lease area	Retaining wall and drain maintained around the lease area	
4i	Length of Retaining wall or garland drain all along dump	332m	551m	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste Dump management	Waste generation is very less and there no comments.		

#### **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	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
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.	Yes	Yes	

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) 0.114 iii) 300 nos iv) 4620 Approx v) Nil vi) 0.75 Lakhs	i) Nil ii) 0.114 Ha iii) 300 nos iv) 4620 Approx v) Nil vi) 0.75 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	Nil	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Nil	Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	Proposed through Third party agency
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	NA	NA	As ROM is directly dispatched to plant for use
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA	
7c	Different grade of mineral sorted out at mines	NA	NA	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral	ROM Mineral will be directly dispatched to the captive plant from the lease area as Crusher Installed near Cement Plant 20		

conservation & beneficiation issues	Km away from mine.
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### **8.0 Environment**

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	When ever encountered, it should be used for plantation	Used for plantation purpose during the year.	
8b	Concurrent use or storage of topsoil	Not proposed as quantity not envisaged	Used for plantation purpose during the year.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	No separate dump area proposed	Small quantity extracted and utilised immediately for plantation	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed in PMCP	Will be done as per proposal	
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)		4320 nos (Apprx) 300 nos(2019-20)	
8g	Survival rate		Within Lease area- 70% (approx) Outside Lease area- 50%(approx)	
8h	Water sprinkling on roads to control airborne dust	yes	yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The lessee as per proposal complied all environment protection measures i.e. plantation, water sprinkling for dust suppression, monitoring of Air, water, noise, etc therefore no such adverse impact observed on aesthetic beauty in and around mines area.		

### **9.0 Compliance of Rule 45**

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – Oct. 2020 A.R. submitted upto- FY 2019-2020	

S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining	Provided in H8	Shri Deepak Kumar, Manager, Shri	Shri Yogesh Banwade, Ge

	Engineer, Geologist and Manager		Amitabh Choudhury, Mining Engineer, Shri Yogesh Banwade, Geologist	ologist not posted in mine
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Provided in H8	The information furnished is broadly as per actual field position.	
9d	Scrutiny of Annual return on Afforestation	Provided in H8	300 nos reported with 80% survival	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Provided in H8	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Provided in H8	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Provided in H8	Ex. Mine price & production cost is Rs 203.79/-	
9i	Scrutiny of Annual return on fixed assets	Provided in H8	Nil	Combined asset of Pathariya lease I (38MPR13008) and Lease II (38MPR13007) is furnished in other mine return
9k	Scrutiny of Annual return on mining machineries	Provided in H8	Given	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - The earlier violation taken compliance and during present inspection Rule 55 of MCDR, 2017 found violated

(Rajesh Kumar Das, Senior Assistant Controller of Mines)