MCDR INSPECTION REPORT 2021-22

GENERAL:

S.N	Particulars	Details
1	File no	
2	Name of the Mine	Pathariya Limestone Mine (Lease – II)
3	Total Lease Area (Ha) with breakup of	Total Lease area – 37.85 Ha
	Non-forest and forest land	Forest Land - Nil
		Non Forest Land – 37.85 Ha
4	Mine code	38MPR13007
5	Date of Inspection &	11/10/2022
	Name of Inspecting Officer	D. Upadhyay, Sr. ACOM
6	Name of official accompanying	Shri. Radhe Shyam Ray (Chief Manager)
	inspection	Shri. Mohanlal Prasad(Mines Manager)
		Shri. Pritam Choudhury (Geologist)
		Shri. Amitabh Choudhry (Mining Engineer)
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/256/2011
8	Name of the lessee, Address, phone,	ACC Limited
	email and fax number	Cement House, 121,
		Maharshi Karve Road,
		Mumbai - 400020
		Phone: 2233024321
		Fax No: 02266317407
		Email: b.sridhar@acclimited.com
9	Village	Pathariya
10	Taluka/Mandal	Dhamdha
11	District	Durg
12	Pincode	490036
13	State Post office	Chhattisgarh Medesara
14 15		Nandini
16	Nearest police station Nearest Railway station	Durg
17	Date of Grant of Mining Lease	22-05-1973
18	Date of Execution	22-05-1973
19	Date of execution Date of opening of Mine	20.02.1978
20	Date of first Renewal, if applicable and	
	its period & expiry	22.05.1993 to 21.05.2003
21	Date of second Renewal, if applicable	22.05.2003 to 21.05.2023,
	and its period & expiry	22.05.2023 to 31.03.2030
22	Date of submission of renewal	दुर्ग/ चुप/ खायो - 1117/2017-RAIPUR/692, Dated 06.11.2017
22	application if Mining Operations are	NA
	continuing under deemed extension	INA
23	Name of the Nominated Owner with	Shri. Sridhar Balakrishnan (Nominated Owner)
23	Address, phone, email, fax number and	Designation: MD & CEO
	date of appointment	ACC Limited
	and of appointment	Cement House, 121,
		Maharshi Karve Road,
		The state of the s
		Mumbai - 400020
		Phone: 7738147500, Fax No: 02266317407
		Email: b.sridhar@acclimited.com
		DOA: 21/02/2020

24	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri. Vaibhav Dixit Designation: Agent and Director Plant Address: Jamul Cement Works ACC Limited, Bhilai, Durg, C.G- 490024 vaibhav.dixit@acclimited.com Phone: 7882285081-83 Fax: 7882282585 DOA:01-07-2018
25	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri. Mohanlal Prasad, Manager Mines Pathariya limestone mines, ACC Limited, PO-Jamul cement works, Bhilai, Dist-Durg, CG, PIN-490024, Email id: mohanlal.prasad@acclimited.com Mob: 8976877894 Date of appointment: 25.03.2022
26	Name of the Mining Engineer & Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri. Amitabh Choudhry, Mining Engineer Total exp-11 yrs, ACC Limited, Jamul Cement Works ,PO-Jamul cement works,Bhilai,Dist- Durg,CG,PIN-490024, Email.id:amitabh.choudhary@acclimited.com Mob: 9109917185 Date of appointment: 28/04/2017 Shri. Pritam Choudhury, M.Sc-Tech(Geology), Total exp-5 yrs, ACC Limited, Jamul cement works ,PO-Jamul Cement Works,Bhilai,Dist-Durg,CG,PIN- 490024, Email.id: pritam.choudhury @acclimited.com Mob: 9938310313 Date of appointment: 07.12.2021
27	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
28	Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Letter no. दुर्ग/ चुप/ खायो - 1117/2017- RAIPUR/692, Dated 06.11.2017'
29	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Period – (2018-19 to 2022-23)
30	Mineral(s) granted in lease and proved for mining	Limestone
31	Method of Mining(Opencast, Underground)	Opencast
32	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
33	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/Review of mining - 1. <u>Exploration</u>

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
1a	Backlog of previous year	Not proposed	NiL	No Backlog
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	NiL	Entire lease area 37.85ha is explored under G1 Category
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not proposed	NiL	Entire lease area 37.85ha is explored under G1 Category
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	NiL	Entire lease area 37.85ha is explored under G1 Category
1e	Balance reserves as on 01.04.2022	As per Review of Mining Plan approved on 06/11/2017. Under (111): 39.34 Million Tonnes Under (211): 10.76 Million Tonnes	` ,	as on 01.04.2022 .06 Million Tonnes .76 Million Tonnes
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lease area 37.	85ha is explored	under G1 Category.

2. Development

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
2a	Location of development w.r.t. lease area	538681E & 2365378N to 538730E & 2365111N	538681E & 2365378N to 538730E & 2365111N	Developmental is carried out within approved proposal.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate bench proposed. (1-2m height OB Bench, ~6-7m in Mineral)	Separate benches in OB & Ore are maintained as per proposal.	Separate benches in OB & Ore are maintained as per proposal.
2c	Stripping ratio or ore to OB ratio	1:0.02cu.m/T	1:0.03cu.m/T	
2d	Quantity of topsoil generation in m ³	738cu.m	1240cu.m	Due to irregular thickness

				quantity varies.
2e	Quantity of overburden/waste generation in m ³	14752cu.m	24906cu.m	Due to inter burden of clayish material waste quantity varies.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Developmental is cal	rried out within ap	proved proposal.

3. Exploitation

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
3a	Number of pits proposed for production	01	01	01Pit
3b	Quantity of Limestone production proposed	835918 Tonn	822729 Tonn	ROM production is consumed to its captive plant.
3c	Recovery of salable/usable mineral from ROM production	100%	100%	Total ROM is usable to its Plant.
3d	Quantity of mineral reject generation	Not proposed	NIL	
3e	Grade of mineral reject generation and threshold value declared	Not proposed	NIL	
3f	Quantity of sub-grade mineral generation	Not proposed	NIL	
3g	Grade of sub-grade mineral generation	Not proposed	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	NIL	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	NIL	
3j	Provision of drilling & blasting in mineral benches	Drilling and blasting is proposed,	Drilling and blasting is carried out as per proposal.	Drilling and blasting is carried out as per proposal.
3k	Provision of mining machineries in mineral benches	Shovel and dumper combination	Shovel and dumper combination	Excavator, Loader and Dumper are equipped to winning out the mineral.

3I 3m	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM Total area covered under excavation/pits	Yes 17.86 Ha upto the end of plan period 2022-23.	Yes 17.68 Ha upto plan period 2021-22	Bench height is suitably matched with the excavator. 17.68 Ha upto plan period 2021-22
3n	Ore to OB ratio for the pit/mine during the year	1:0.02	1:0.03	
30	Total area put in use under different heads at the end of year	Pit-17.86 Ha OB/Dump-2.61 Ha Road/infra:1.507Ha Other (temporary stack)- 0.5 upto 2022-23	Pit- 17.68Ha OB/Dump- 1.7100Ha Road/infra: 1.26 Ha Other (temporary stack)- 0.5 Ha Upto 2021-22	Total area put in use under different heads at the end of year are as per proposal.
3р	Production of ROM mineral during last five-year period, as applicable	F.Y. 2018-19: 838138 MT F.Y. 2019-20: 833768 MT F.Y. 2020-21: 839595 MT F.Y. 2021-22: 835918 MT	F.Y. 2018-19: 455097 MT F.Y. 2019-20: 675426 MT F.Y. 2020-21: 839554 MT F.Y. 2021-22: 822729 MT	ROM production is consumed to its captive plant.
3q	General remarks of inspecting officer on method of mining etc.	The ROM production has per proposal.	nas been carried out fro	om single pit as

Solid Waste Management-Dumping

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of OB. Top soil to utilized for plantation	Separate dumping of OB. Top soil utilized for plantation.	Separate dumping of OB. Top soil utilized for plantation.
4b	Location of topsoil, OB & mineral reject dumps	Top soil to utilized for plantation and OB to be dumped 538420E & 2365119 N to 538382 E & 2365057 N No mineral Reject	Top soil utilized for plantation and OB to be dumped 538420E & 2365119 N to 538382 E & 2365057 N No mineral Reject	Top soil to utilized for plantation and OB to be dumped 538420E & 2365119 N to 538382 E & 2365057 N No mineral Reject
4c	Number of dumps within lease area and outside lease area	Within Lease :01 Outside Lease: Nil	Within Lease : 01 Outside Lease: Nil	Within Lease : 01dump.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	538420E & 2365119 N to 538382 E & 2365057 N	538420E & 2365119 N to 538382 E & 2365057 N	Location of dump is as per approved proposal.
4e	Number of active & alive dumps	01	01	01dump.

4f	Number of dead dumps	Not proposed	NIL	
4g	Number of dumps stabilized	Not proposed	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Retaining wall partially made.	
4i	Length of Retaining wall or garland drain all along dump	92m Retaining wall.	Retaining wall partially made.	Shortcoming is pointed out through violation letter.
4j	Number of settling ponds	Not proposed	NIL	
4k	Specific comments of inspecting officer on waste dump management	Separate dumping of OB is maintained as per proposal. Deviation of Retaining wall is pointed out through violation letter.		

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual Work	Remarks
		(2021-22)	(2021-22)	
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
5b	Area under backfilling of mined out area	Not proposed	NIL	do
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	NIL	do
5d	Total area fully reclaimed & rehabilitated	Not proposed	NIL	do
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area is not mature	ed for reclamation	and rehabilitation.

Progressive Mine Closure Plan

S.N	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Yes	Yes	Annual report on PMCP submitted
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	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.

	v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year			
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L *B * 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	NIL	Area is 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	Not proposed	NIL	NIL
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly monitoring	Quarterly monitoring	Quarterly monitoring
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Area is not matured rehabilitation. Plant proposal.		

Mineral Conservation

S.N.	ltem	Proposals	Actual Work	Remarks
		(2021-22)	(2021-22)	
7a	ROM Mineral dispatch or grade-	ROM	ROM Generated	ROM
	wise sorting within lease area	generated is cement grade and proposed to directly supply to Captive Cement Plant Jamul Cement Works.	is directly supplied to Captive cement plant Jamul cement works.	Generated is directly supplied to Captive cement plant Jamul cement works.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed	NIL	do
7c	Different grade of mineral sorted out at mines	Not proposed	NIL	do
7d	Any beneficiation process at mines	Not proposed	NIL	do
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM Generated is directly supplied to Captive cement plant Jamul cement works.		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
		(2021-22)	(2021-22)	
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil to be used for plantation along the periphery of mining lease within 7.5m non mining zone.	Top soil to be used for plantation along the periphery of mining lease within 7.5m non mining zone.	Top soil to be used for plantation along the periphery of mining lease within 7.5m non mining zone.
8b	Concurrent use or storage of topsoil	No storage of top soil	Top soil spread over safety bund for plantation	Top soil spread over safety bund for plantation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	01 waste dump	01 waste dump	01 waste dump
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed.	Nil	Area is not matured for reclamation and rehabilitation. Plantation is carried out as per proposal.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	Nil	Area is not matured for reclamation and rehabilitation. Plantation is carried out as per proposal.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation proposed in FY 2021-22 is 300 nos.	Actual Plantation in FY 2021-22 is 345 nos. Cumulative plantation 5565 nos upto 31.03.2022	Actual Plantation in FY 2021-22 is 345 nos. Cumulative plantation 5565 nos upto 31.03.2022
8g	Survival rate	85%	85%	Survival rate 85%
8h	Water sprinkling on roads to control airborne dust	water tanker	One water tanker of 2KL deployed.	One water tanker of 2KL deployed.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mines area is maintained by plantation.		

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	AR & MR submitted regularly.		AR & MR submitted regularly.
S.N.	Item		Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer, Geologist employment is furnished	Mining engineer, Geologist are employed in the mine.	Mining engineer, Geologist are employed in the mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern furnished in AR.	Found in order.	Found in order.
9d	Scrutiny of Annual return on afforestation	Plantation 345 no.	Plantation 345 no.	Plantation 345 no.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production is Rs.236.06/mt	Cost of production is Rs.236.06/mt	Cost of production is Rs.236.06/mt
9i	Scrutiny of Annual return on fixed assets	Fixed asset under Capital structure (Part II A):-) 58338712	Fixed asset under Capital structure (Part II A):-) 58338712	Fixed asset under Capital structure (Part II A):-) 58338712
9k	Scrutiny of Annual return on mining machineries	Machineries furnished in AR.	Found in order.	Found in order.

10- Details of violations observed during inspection and the compliance status.

Violation of Rule 11(1) was issued to lessee on 28/11/2022.

Date: 23/12/2022 Signature:

Name: D. Upadhyay Designation: Sr. ACOM