

MCDR INSPECTION REPORT 2022-23**General:**

Sl No.	Particulars	Details
1	Name of the Mine	Pathariya Limestone Mine (Lease – I)
2	Date of Inspection:	28/12/2023
3	Name of Inspecting Officer	Mr. Debadurllav Dash
4	Name of official accompanying inspection	Shri. Pradyumna Kumar Mishra (Mines Manager cum Mining Engineer) Shri. Pankaj Netke (Geologist)
5	Last date of Inspection & Officer	03.03.2023 by Shri Deepak Chichkhede, ACOM
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease area - 36.001 Ha Forest Land - Nil Non Forest Land – 36.001 Ha
7	Mine code	38MPR13008
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/256/2011
9	Name of the Lease, Address, Phone, email and fax number	ACC Limited, Cement House, 121, Maharshi Karve Road, Mumbai – 400020, Phone: 02267973967 Fax No: 02266317407 Email: ajay.kapur@adani.com
10	Village	Pathariya
11	Taluka/Mandal	Dhamdha
12	District	Durg
13	Pin code	490036
14	State	Chhattisgarh
15	Post Office	Medesara
16	Nearest Police Station	Nandini
17	Nearest Railway Station	Durg
18	Date of Grant of Mining Lease	03.03.1971
19	Date of Execution	14.05.1971
20	Weekly day of rest	Sunday
21	Date of opening of Mine	03.08.1971
22	Date of First Renewal, if applicable and its period & expiry	14.05.1991 to 13.05.2001
23	Date of Second Renewal, if applicable and its period & expiry	14.05.2001 to 31.03.2030 (As per letter no.-1359/khanij/2015, Durg Dated:13.10.2015,D.C.Office,C.G.)
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N.A
25	Name of the Nominated Owner with Address, phone, email, fax number and date of	Ajay Kapur (Nominated owner), Designation: Whole Time Director

	appointment	& CEO, ACC Limited Cement House, 121, Maharshi Karve Road, Mumbai - 400020 Phone: 9820070057 Fax No: 02266317407 Email: ajay.kapur@adani.com DOA: 03/12/2022
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Name: Suresh Dube Designation: Director Plant Address: Jamul Cement Works ACC Limited, Bhilai, Durg, C.G- 490024 Email: suresh.dubey@adani.com Phone: 9262299138, Fax: 7882282585 DOA:01-11-2022
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri. Pradyumna Kumar Mishra Designation: Manager Mines Qualification: Diploma in Mining Engineering, Work Experience: 19+ Years, Address: Jamul Cement Works ACC Limited, Bhilai, Durg, C.G-490024, Mob: 9752599843 Email: pradyumna.mishra@adani.com DOA: 21.10.2023
28	Name of the Mining Engineer & Geologist, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri. Pradyumna Kumar Mishra Designation: Mining Engineer Qualification: Diploma in Mining Engineering, Work Experience: 19+ Years, Address: Jamul Cement Works ACC Limited, Bhilai, Durg, C.G-490024, Mob: 9752599843 Email: pradyumna.mishra@adani.com DOA: 23.12.2023 Shri. Pankaj Netke Designation: Geologist Qualification: M.Sc-Tech(Geology) Work Experience: 12+ years Address: Jamul Cement Works ACC Limited, Bhilai, Durg, C.G-490024, Mob: 7024233143 Email: pankaj.netke@adani.com DOA:20-01-2017
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
30	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific	Mining Plan approved vide letter no. MCCM©/MP-21 dated 08.01.2001

I/31779/2024

	condition in approval letter, if any.	for the period from 2001-02 to 2005-06.
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	1 st Scheme of Mining approved vide letter no. DRG/LST/Khanij – 183/NGP dated 15.02.2016 for the period from 2016-17 to 2020-21 2 nd Scheme of Mining was approved letter no. DRG/LST/Khanij /1244/2020 for the period from 2021-21 to dated 20/11/2020 for the period 2021-22 to 2025-26
32	Mineral(s) granted in lease and approved for Mining	Limestone
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
35	Captive/Non-Captive	Captive
36	Present EC Status (Validity)	0.84 million tonnes up to 31/03/2030
37	Status of Financial Assurance	Rs 92,70,000 up to 31/03/2026

Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:

1.0 Exploration:

S.N	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
1a	Backlog of previous year Proposals	F.Y. 2021-22: Nil F.Y. 2022-23: Nil	F.Y. 2021-22: Nil F.Y. 2022-23: 4 (Meterage:300 m)	Entire lease is explored. 2022-23 : Infilling Boreholes
1b	Exploration over lease area for Geological axis 1 or 2.	Under G1 Category: 36.001 Ha	Under G1 Category: 36.001 Ha	Entire lease is explored.
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	N.A	GEM Consultants Exp: ₹ 7.19 lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Nil	Nil	
1e	Balance reserves as on 01.04.2023	Under (111): 12.24 Million Tonnes Under (211): 17.08 Million Tonnes	Under (111): 12.25 Million Tonnes Under (211): 17.08 Million Tonnes	
1f	General remarks of Inspecting officer on geology, exploration etc.	The entire mining lease area of 37.85 ha area has been covered under G1 scale exploration by drilling of 110 boreholes at a grid interval of 100 x 100 m with total meterage of 4320 m.		

I/31779/2024

2.0 Development:

S. N	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
2a	Location of Development w.r.t. lease area	2367555 (N) To 2366736 (N) & 538900 (E) To 538426 (E)	2367555 (N) To 2366736 (N) & 538900 (E) To 538426 (E)	As per proposal.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	~1-2m OB towards east only and 6-8m in limestone	~1-2m OB towards east only and 6-8m in limestone	As per proposal.
2c	Stripping ratio or ore to OB ratio	1:0.005	1:0	No OB generation reported.
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden generation in m ³	5015	Nil	No OB generated during the year
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	The quarry development is within the proposed area as per approved Mining Plan. During the year 2022-23, no waste generation is reported, since mining operations is confined to already developed quarry faces.		

3.0 Exploitation:

S. N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
3a	Number of pits proposed for production	1	1	As per proposal.
3b	Quantity of ROM mineral production proposed	F.Y. 2022-23: 839834 MT	F.Y. 2022-23: 838504.95 MT	Production is marginally on lower side.
3c	Recovery of Salable/usable mineral from ROM production	100%	100%	As
3d	Quantity of mineral reject generation	F.Y. 2022-23: 12500 tonnes	F.Y. 2022-23: 10234 tonnes	Proportionate to production
3e	Grade of mineral reject generation and threshold value declared	3-5 (% MgO)	4.4 (% MgO)	
3f	Quantity of sub-grade mineral generation	NIL	NIL	
3g	Grade of sub-grade mineral generation	NIL	NIL	
3h	Manual/Mechanized method adopted for segregation from	NA	NA	

	ROM			
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling blasting by using Nonel Dia:115mm, Spacing: 3m, Burden: 5m, Depth: 8m, Explosives: ANFO, SME, PG BOOST, SHAKTIPRIME, SOLARPRIME	Deep hole drilling blasting by using Nonel Dia:115mm, Spacing: 3m, Burden: 5m, Depth: 8m, Explosives: ANFO, SME, PG BOOST, SHAKTIPRIME, SOLARPRIME	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation /pits	28.30 Ha upto the end of plan period 2025-26	27.780 Ha upto plan period 2022-23	As per proposal.
3n	Ore to OB ratio for the pit/mine during the year	1:0.005	1:0	No waste generation during the year.
3o	Total area put in use under different heads at the end of year	Pit: 28.30 Ha OB/Dump: 0.400 Ha Road/infra:0.500Ha Other: 1.300 Ha upto 2025-26	Pit: 27.780 Ha OB/Dump: 0.012 Ha Road/infra: 0.900 Ha Other (PMCP): 0.115 Ha, plantation along 7.5m safety bund Upto 2022-23	As per proposal.
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	F.Y. 2018-19: 841250 MT	F.Y. 2018-19: 794559.08 MT	Production of limestone from the mine over the years is based on captive mineral requirement and slightly on lower side.
		F.Y. 2019-20: 841000 MT	F.Y. 2019-20: 834254.92 MT	
		F.Y. 2020-21:	F.Y. 2020-	

I/31779/2024

		843500 MT	21: 839911.490 MT	
		F.Y. 2021-22: 839817 MT	F.Y. 2021-22: 835096.560 MT	
		F.Y. 2022-23: 839834 MT	F.Y. 2022-23: 838504.95 MT	
3q	General remarks of inspecting officer on method of mining etc	A single quarry has been developed at the designated site as per proposal. Production of mineral is almost at par the proposal. The mineral reject generation is proportionate to production of mineral. No waste generation is reported from the mine during the year 2022-23. Production of limestone from the mine over the years is based on captive mineral requirement and slightly on lower side.		

4.0 Solid Waste Management-Dumping:

S.N	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Proposed for OB and Mineral Reject	Mineral Reject is Being dumped as per proposal. No OB generated during the year.	As per proposal.
4b	Location of topsoil, OB & mineral reject dumps	OB dump/bund proposed towards Eastern part of the lease between section line 4.5 to 7 and towards Southern part between section line 0.0 to 0.5. Minerals reject dump between section line	Being done as per proposal. 2367067 (N) To 2366974 (N) & 538576 (E) To 538540 (E) No OB generated during the year.	As per proposal.

I/31779/2024

		2.0 to 4.0. 2367067 (N) To 2366974 (N) & 538576 (E) To 538540 (E)		
4c	Number of Dumps within lease area and outside lease area	Within Lease :1 small temporary dump. Outside Lease: Nil	Within Lease : 1 small temporary dump. Outside Lease: Nil	-do-
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Temporary dump partially within UPL and partially outside	Outside UPL	-do-
4e	Number of Active & Alive dumps	NA	NA	
4f	Number of dead dumps	NA	NA	
4g	Number of dumps established	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	NA	NA	
4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific commends of inspecting officer on waste dump management	Waste & mineral reject dumping is done separately as proposed. However, during the year 2022-23, no waste generation is reported.		

5.0 Solid Waste Management-Backfilling:

S.N	Item	Proposals (2022-23)	Actual Work (2022-23)	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	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	NA	NA	
5e	General remarks of inspecting	No area is fully mined out. Thus, backfilling is		

I/31779/2024

officer on backfilling, reclamation etc	not viable at present.
---	------------------------

6.0 Progressive Mine Closer Plan:

S. N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly- Rule 26 (2)	Yes	Yes	
6b	Management of worked/mined out benches			
	Area available for rehabilitation (Ha)	NA	NA	
	Afforestation done (ha)	NA	NA	
	No. of saplings planted during the year	NA	NA	
	Cumulative no. of plants	NA	NA	
	Any other specific method of rehabilitation	NA	NA	
	Cost incurred on watch & care during the year	NA	NA	
6c	Compliance on reclamation and rehabilitation by backfilling Voids available for backfilling (L*B*D) Void filled by waste/tailings Afforestation on the backfilling Rehabilitation by making water reservoir Any other specific means	NA	NA	
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	i. NA ii. NA iii. NA	i. NA ii. NA iii. NA	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Yes Proposed	Being done as per proposal.	Monitoring parameters are found to be within the permissible limit.
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	PMCP report is submitted. No area is mined out. Thus, there is no proposal for management of mined out benches or backfilling.		

7.0 Mineral Conservation:

S.N	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
.				

I/31779/2024

7a	ROM mineral dispatch or grade wise sorting within lease area	ROM generated is cement grade and proposed to directly supply to Captive Cement Plant Jamul Cement Works.	Being done	As per proposal.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA	
7c	Different grade of mineral sort out at mine	NA	NA	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is no facility for crushing and screening of the mineral within the mining lease area. The blasted run of mine ore are directly fed to captive cement plant.		

8.0 Environment:

S.N	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Meagre quantity generated is utilized for plantation.	Being done	As per proposal.
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Small temporary dump proposed southern part of lease and bund towards eastern part of lease.	Plantation has been carried out over the proposed bund towards eastern part of the lease as per proposal.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation & additional plantation	Base line: 3037 no.	Base line: 3037 no.	

I/31779/2024

	done (Rule 41)	Cumulative plantation upto 31/03/2022 . Additional plantation proposed during 2022-23: 300 nos.	Cumulative plantation upto 31/03/2022. Additional plantation done during 2022-23 : 400 nos.	
8g	Survival rate	85%	75%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	During the year 2022-23, 400 saplings have been planted with 75% survival rate with cumulative plantation of 3037 saplings.		

9.0 Compliance of Rule 45:

SN	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	MR submitted up to Nov 2023		Submitted on time
		AR submitted up to 2022-23		
SN	Item	Details Given in A.R.	Observation of I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines manager Shri. Radhe Shyam Ray, Mining Engineer: Shri. Radhe Shyam Ray, Geologist: Shri Pankaj Netke	Mines manager Shri. Radhe Shyam Ray, Mining Engineer: Shri. Radhe Shyam Ray, Geologist: Shri Pankaj Netke	Shri. Radhe Shyam Ray has resigned and Shri. Pradyumna Kumar Mishra is new mines Manager and Mining Engineer
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 27.780 Ha OB/Dump: 0.012 Ha Road/infra: 0.900 Ha Other (PMCP): 0.115 Ha, Upto 31/03/2023	Pit: 27.780 Ha OB/Dump: 0.012 Ha Road/infra: 0.900 Ha Other (PMCP): 0.115 Ha, Upto 31/03/2023	Appears to be correct.
9d	Scrutiny of Annual return on afforestation	Plantation Proposed WML: 300 Nos. For F.Y: 2022-23	Plantation done WML: 400 Nos. For F.Y: 2022-23	

I/31779/2024

9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	10234 MT	10234 MT	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Cost of production is ₹ 270.85/mt	Cost of production is ₹ 270.85/mt	Appears to be correct.
9i	Scrutiny of Annual return on Fixed assets	Fixed asset under Capital structure (Part II A) : ₹ 52253914/-	Fixed asset under Capital structure (Part II A) : ₹ 52253914/-	-do-
9k	Scrutiny of Annual return on mining Machineries	Nil	Nil	

10. Details of violations observed during current inspection and compliance position of earlier violation

Violations pointed out during the previous inspection :

During the previous inspection on 03.03.2023 by Shri Deepak Chichkhede, ACOM, no violation was pointed out.

During the current inspection, no serious violation was observed.

Date:

Signature:

Name: (Debadurllav Dash)

Designation: Regional Mining Geologist