

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

Sl . No.	Particulars	Details
1	Name of the Mine	Pathariya Limestone Mine (Lease – II)
2	Date of Inspection:	28/12/2023
3	Name of Inspecting Officer	Mr. Debadurllav Dash
4	Name of official accompanying inspection	Shri. Amitabh Choudhary (Mines Manager) Shri. Pritam Choudhury (Geologist)
5	Last date of Inspection & Officer	11.10.2022, Shri D. Upadhaya, Sr. ACOM
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease area - 37.85 Ha Forest Land - Nil Non Forest Land – 37.85 Ha
7	Mine code	38MPR13007
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	24.11.1972
19	Date of Execution	22.05.1973
20	Weekly day of rest	Sunday
21	Date of opening of Mine	20.02.1978
22	Date of First Renewal, if applicable and its period & expiry	22.05.1993 to 21.05.2003
23	Date of Second Renewal, if applicable and its period & expiry	22.05.2003 to 21.05.2030 (As per letter no.- दुर्ग/ चुप/ खायो - 1117/2017-RAIPUR/692, Dated 06.11.2017)
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	Name: Ajay Kapur (Nominated owner)

I/31776/2024

	appointment	Designation: Whole Time Director & 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 Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri. Amitabh Choudhary Designation: Manager Mines Qualification: BE Mining Work Experience: 12+ Years Address: Jamul Cement Works ACC Limited, Bhilai, Durg, C.G- 490024 Mob: 9109917185 Email: amitabh.choudhary@adani.com DOA: 23.12.2023
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. Amitabh Choudhry Designation: Mining Engineer Qualification: BE Mining Work Experience: 12+ Years Address: Jamul Cement Works ACC Limited, Bhilai, Durg, C.G- 490024 Mob: 9109917185 Email: amitabh.choudhary@adani.com DOA: 28.04.2017 Shri. Pritam Choudhury Designation: Geologist Qualification: M.Sc (Geology) Work Experience: 7+ years Address: Jamul Cement Works ACC Limited, Bhilai, Durg, C.G- 490024 Mob: 9938310313 Email: pritam.choudhury@adani.com DOA:07-12-2021
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes

I/31776/2024

30	Date of Approval of Mine Plan/Modified Mine 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 for the period from 1991-92 to 1995-96 Mining Plan approved vide letter no. 314(3)/2002-MCCM©/MP-1 dated 25.10.2002 29.08.1991 for the period from 2001-02 to 2005-06 Modified Mining Plan approved vide letter no. 314(3)/2002-MCCM(CZ)/MP-9/NGP dated 11.03.2006 for the period from 2005-06 to 2007-08
31	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 was approved vide letter no. 314(3)/2012-MCCM(CZ)/MS-42 dated 04.10.2013 for the period from 2013-14 to 2017-18 Modification of approved Mining Plan was approved letter no. DRG/LST/MPLN-1117/2017/Raipur dated 06.11.2017 for the period from 2018-19 to 2022-23
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	840000 mt. valid up to dated 31.03.2030
37	Status of Financial Assurance	31/03/2028

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: Nil	Entire lease is explored under G1 scale of exploration.
1b	Exploration over lease area for Geological axis 1 or 2.	Under G1 Category: 37.85 Ha	Under G1 Category: 37.85 Ha	Entire lease is explored.
1c	Exploration Agency & Expenditure in Lakh Rupees	N.A	N.A	

I/31776/2024

	during the year			
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): 25.08 Million Tonnes Under (211): 25.17 Million Tonnes	As per Annual Return submitted.
1f	General remarks of Inspecting officer on geology, exploration etc.	Exploration in form of 63 boreholes with total meterage of 2915 m have been drilled at a grid interval of 100 x 100 m covering the entire lease are under G1 scale of exploration.		

2.0 Development:

S. N	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
2a	Location of Development w.r.t. lease area	SRP A to SRP 2.5 From 539200 (E) 2365613(N) To 538685(E) 2365140(N)	SRP A to SRP 2.5 From 539200 (E) 2365613(N) To 538685(E) 2365140(N)	As per proposal.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	~1-2m height OB Bench and ~ 6-7m in Mineral	Maintained as per proposal.	-do-
2c	Stripping ratio or ore to OB ratio	1:0.02	1:0.018	-do-
2d	Quantity of topsoil generation in m ³	1050	2549	Slightly on higher side.
2e	Quantity of overburden generation in m ³	16830	15571	Almost as per proposal.
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	The development of quarries are as per proposals in approved Mining Plan..		

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: 834748 MT	F.Y. 2022-23: 833657.74 MT	Almost as per proposal.
3c	Recovery of Salable/usable mineral from ROM production	100%	100%	As per proposal.
3d	Quantity of mineral reject generation	F.Y. 2022-23: Nil	F.Y. 2022-23: Nil	

I/31776/2024

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/Mechanized method adopted for segregation from ROM	NA	NA	
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: 3-5m, Burden: 2.5-3.5 m, Depth: 6-8m, Exploosives: ANFO, SME, PG BOOST, SHAKTIPRI ME, SOLARPRIME	Deep hole drilling blasting by using Nonel Dia:115mm, Spacing: 3-5m, Burden: 2.5-3.5 m, Depth: 6-8m, Exploosives: ANFO, SME, PG BOOST, SHAKTIPRI ME, SOLARPRIME	As per proposal.
3k	Provision of mining machineries in mineral benches	Yes	Yes	As per proposal.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	As per proposal.
3m	Total area covered under excavation /pits	17.86 Ha upto plan period 2022-23	18.27 Ha upto plan period 2022-23	Area under excavation is slightly on higher side.
3n	Ore to OB ratio for the pit/mine during the year	1:0.02	1:0.018	As per proposal.
3o	Total area put in use under different heads at the end of year	Pit: 17.86 Ha OB/Dump: 2.61 Ha Road/infra: 1.507 Ha Other (Temporary Stack): 0.5 Ha, Upto 2022-23	Pit: 18.270 Ha OB/Dump: 1.910 Ha Road/infra: 1.150 Ha Other (Temporary Stack): 0.5 Ha Upto 2022-23	As Per Approved Review of Mine Plan.
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	F.Y. 2018-19: 838138 MT	F.Y. 2018-19: 455097.22 MT	Production of Limestone from the mine is per captive use of

I/31776/2024

		F.Y. 2019-20: 833768 MT	F.Y. 2019-20: 675425.85 MT	the mineral in cement plant.
		F.Y. 2020-21: 839595 MT	F.Y. 2020-21: 839553.79 MT	
		F.Y. 2021-22: 835918 MT	F.Y. 2021-22: 822729.14 MT	
		F.Y. 2022-23: 834748 MT	F.Y. 2022-23: 833657.74 MT	
3q	General remarks of inspecting officer on method of mining etc	The quarry development has been done in a single quarry as per proposals in approved Minig plan. The mining is done by deep hole blasting by mechanized method . The area put under use is almost as per proposal. Production of Limestone from the mine is per captive use of the mineral in cement plant		

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	Being done as per proposal.	
4b	Location of topsoil, OB & mineral reject dumps	Top soil to be utilized for plantation and OB to be dumped towards 538420 (E), 2365118 (N) To 538475(E), 2365012 (N)	538420 (E), 2365118 (N) To 538475(E), 2365012 (N)	Being done as per proposal
4c	Number of Dumps within lease area and outside lease area	Within Lease :01 Outside Lease: Nil	Within Lease: 01 Outside Lease: Nil	As per proposal.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	538420 (E), 2365118	538420 (E), 2365118 (N)	-do-

I/31776/2024

		(N) To 538475(E), 2365012 (N)	To 538475(E), 2365012 (N)	
4e	Number of Active & Alive dumps	01	01	-do-
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	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	146	250	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management	Waste dump is separately dumped in designated place as per proposal.		

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 officer on backfilling, reclamation etc	No area is fully mined out. Thus, there is no scope for backfilling.		

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	

I/31776/2024

	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.	The environmental parameters are found within permissible limit.
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Yearly PMCP report has been submitted. No area is mined out . Therefore, backfilling is not viable at present.		

7.0 Mineral Conservation:

S.N	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
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	No crushing and screening is carried out within the lease area. The run of mine ore after blasting are sent to plant directly.		

I/31776/2024

8.0 Environment:

S.N	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Top soil to be used for plantation along the periphery of mining lease within 7.5m non mining zone.	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)	Yes	Yes	
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 done (Rule 41)	Base line: 4174 no. Cumulative plantation upto 31/03/2022. Additional plantation proposed during 2022-23: 300 nos.	Base line: 4174 no. Cumulative plantation upto 31/03/2022. Additional plantation done during 2022-23 : 400 nos.	
8g	Survival rate	85%	85%	
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	Top soil generated during the process of mining are used for plantation purpose. In the lease area, during the year 2022-23, 400 saplings have been planted with cumulative plantation of 4174 nos.		

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	

I/31776/2024

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. Mohanlal Prasad, Mining Engineer: Shri. Amitabh Choudhry, Geologist: Shri Pritam Choudhury	Mines manager Shri. Mohanlal Prasad, Mining Engineer: Shri. Amitabh Choudhry, Geologist: Shri Pritam Choudhury	Shri. Mohanlal Prasad has resigned and Shri. Amitabh Choudhry is new mines Manager
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 18.270 Ha OB/Dump: 1.910 Ha Road/infra: 1.150 Ha Other (PMCP): 0.120 Ha, Upto 31/03/2023	Pit: 18.270 Ha OB/Dump: 1.910 Ha Road/infra: 1.150 Ha Other (PMCP): 0.120 Ha, plantation along 7.5m safety bund 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	Apperas to be correct.
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil	
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 ₹ 243.71/mt	Cost of production is ₹ 243.71/mt	Appears to be correct.
9i	Scrutiny of Annual return on Fixed assets	Fixed asset under Capital structure (Part II A) : ₹ 50356341/-	Fixed asset under Capital structure (Part II A) : ₹ 50356341/-	
9k	Scrutiny of Annual return on mining Machinerries	Nil	Nil	

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

I/31776/2024

During the previous inspection of the mine by Shri Dayanad Upadhaya, Sr.ACOM of this office, violation of Rule 11(1) of MCDR, 2017 is pointed out for non-compliance of protective measure around the waste and it is rectified. There is no outstanding violation.

During the current inspection no serious violations are observed.

Date:

Signature:

Name: (Debadurllav Dash)

Designation: Regional Mining Geologist

Machinery statement and performance is given as under:

	Equipment	Capacity of each Unit	Rated Output (in t/hr)
1	Back Hoe	2.800 CUM	250 t/hr
2	Shovel (Hydraulic)	4.00 CUM	380 t/hr
3	Rock Drill (Nonelec.)	115.00 mm	-
4	Dozer	340.00 HP	-
5	Other HEM Machinery	45	-
6	Explosive Van	4.450 Tonne	-
7	Water Tanker	8000.00 Litres	-
8	Truck	10.00 Tonne	-
9	Pumps (Elec.)	3300.00 L/Min	-
10	Pumps (Non Elec.)	13300.00 L/Min	-
11	Truck	23.00 Tonne	-
12	Truck	29.00 Tonne	-
13	Truck	30.00 Tonne	-
14	Truck	17.50 Tonne	-
15	Jeep/Tractor	118.00 HP	-
16	Pumps (Elec.)	2000.00 L/Min	-

Cost of major mining head per tones as given below

		Cost Per Tonne (in ₹)
(i)	Direct Cost	
	(a) Exploration	0
	(b) Mining	89.91
	(c) Beneficiation(Mechanical Only)	0
(ii)	Over-head cost	15.66
(iii)	Depreciation	10.04
(iv)	Interest	0
(v)	Royalty	80.00
(vi)	Taxes	0
(vii)	Dead Rent	0
	Others (specify)	
(viii)	I – DMF	24
	ii- NMET	1.6
	iii- Environment Cess	11.25
	iv- Infrastructure development Cess	11.25
	Total	243.71

I/31776/2024

CSR Work

Sl.No	Item	Amount	Remarks
1	Water storage tanks, supply & irrigation support	4,74,000	
2	Support to health & medical services , covid assistance	1,12,000	
3	Promotion of Hygiene and sanitation , public health	30,000	
4	Support to skill development	1,65,000	
5	Social livelihood support	14,27,000	
6	Support to transportation and services	10,53,000	
	Total	32,61,000/-	

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

Date:

Signature:
Name:
Designation: