

MCDR Report 2022-23

1) Name of Inspecting officer:	Mr. Prem Prakash
2) Designation	RCOM, IBM Raipur
3) Accompanying mine official with designation	Mr. Arvind Zade, Mines Manager
4) Date of Inspection	01/12/2023
5) Date of Previous Inspection	02/03/2023

I. GENERAL INFORMATION

Sl. No	Particulars	Details
1	Name of the Mine	Jamul Cement Works Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area-269.95 Ha, Forest Land: Nil. Non-forest land 269.95 Ha
3	Mine Code	38MPR13001
4	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/256/2011
5	Name of the lessee, Address, phone, email and fax number	Jamul Cement Works, ACC Limited, Durg, CG-490024 Mobile 7225026281
6	Village	Jamul, Dhour, Kurud
7	Taluka/Mandal	Durg
8	District	Durg
9	Pin Code	490024
10	State	Chhattisgarh
11	Post office	Jamul
12	Nearest police station	Jamul
13	Nearest Railway station	Bhilai Power House
14	Date of Grant of Mining Lease	04.05.1960
15	Date of Execution	12.06.1963
16	Date of opening of Mine	12.06.1963
17	Date of first Renewal, if applicable and its period & expiry	04.05.1980
18	Date of second Renewal, if applicable and its period & expiry	04.05.2000
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA (Lease validity 31.03.2030)
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri. Ajay Kapur ACC Limited, Cement House, Mahrsi Karve Road, MUMBAI-400020 Date of appointment:03/12/2022 Mail.id: ajay.kapur@adani.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of	Suresh Dube, Agent & Chief Plant Manager Jamul cement Works, ACC Limited

	appointment	Mail.id: suresh.dubey@adani.com Date of appointment: 01/11/2022
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri. Arvind Bhaurao Zade, Manager Jamul Cement Works, ACC Limited Email id: arvindbhaurao.zade@adani.com Mob:07225026281 Date of appointment: 19/12/2015
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri. Piyush Kumar Sharma BE, Mining, Jamul Cement Works, ACC Limited, Experience =11.5 years Email.id: piyush.sharma@adani.com Mob: 9179077730 Date of appointment: 16/07/2022
24	Name of the Geologist , Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Yes Shri. Divya Kant Dave, M.Tech, (Applied Geology) Experience = 17 years Jamul Cement Works, ACC Limited Email.id: d.dave@adani.com , Mob: 7225026283 Date of appointment: 20/11/2015
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55&carrying out their duties as per rule 56 & 57 of MCDR, 2017.	Yes
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)/99-MCCM©/MP-17 Dated 09.12.2019
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of Mining Plan Approval letter no. Durg/Lst/khayo-1212/2019, Dated 09.12.2019 Proposal Period- 2020-21 to 2024-25.
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining (Opencast, Underground)	Opencast
30	Category (Fully Mechanized, Others or Manual)	Category-A Fully Mechanized
31	Captive/Non-Captive	Captive

II. SCIENTIFIC MINING

[Data in respect of financial year (2022-23) or cumulative, as applicable]

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
A. EXPLORATION: -				
1a	Backlog of Previous Year	Nil	Nil	
1b	Exploration Over Lease area for Geological Axis 1 or 2	No exploration has been proposed in the approved Review of Mining Plan during F.Y. 2022-23	Nil	Entire potential mineralized area has been explored under G-1
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Not Applicable	
1d	Balance area to be explored to bring Geological axis 1 or 2	No Proposal	Not Applicable	G1-188.88 Ha., Area proved as Non-mineralized- 81.0700 Ha.
1e	Balance reserves as on 01/04/2023	Under 111- 73156469 Tonnes		As per Annual Return submitted for 2022-23
1f	General remarks of inspecting officer on geology, exploration etc.	No exploration has been proposed during the financial year 2022-23. The entire potential mineralized area has been explored under G-1 level of exploration out of that 81.0700 Ha. area proved as non-mineralized as per approved Modification of Review of Mining Plan.		

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B. DEVELOPMENT: -				
2a	Location of development w.r.t. lease area	From 537473 E to 537858 E & from 2351239N to 2351026N	Carried out within the proposed area	
2b	Separate benches in topsoil, overburden and mineral	Separate benches proposed in OB & mineral.	Separate benches were maintained in OB & mineral.	
2c	Stripping ratio or ore to OB ratio	1: 0.09	1: 0.21	Tonne:Cum
2d	Quantity of topsoil generation in m3	8101	3456	Topsoil used for plantation purpose
2e	Quantity of overburden /Interburden waste generation in m3	279030	542395	
2f	General remarks of	The pit developments has been carried out within the proposed area		

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m	under excavation/pits	end of plan period 2024-25	end of FY 2022-23	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.09	1: 0.21	Tonne:Cum
3o	Total area put in use under different heads at the end of year	138.51 ha up to the end of plan period 2024-25	About 129.00 ha up to end of FY 2022-23	
3p	Production of ROM mineral during last five-year period, as applicable	2018-19:3014460 T 2019-20:3000000 T 2020-21:3000000 T 2021-22: 3000000T 2022-23: 3000000T	2018-19:2138462.92 2019-20: 2620330.22 2020-21: 2362249.37 2021-22: 2185586.27 2022-23: 2497844.55	(All units in MT) As per AR 2022-23 submitted
3q	General remarks of inspecting officer on method of mining etc.	Open cast working is being carried out by deployment of HEMM with the help of drilling & blasting. Less production is reportedly due to due to quality constraints.		

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D. SOLID WASTE MANAGEMENT - DUMPING: -				
4a	Separate Dumping of Topsoil, OB and Mineral Rejects	Backfilling proposed	Backfilling of waste being carried out	Topsoil used for plantation.
4b	Location of Topsoil, OB and Mineral Rejects Dumps	No OB/Waste dump proposed Topsoil proposed for reuse	Topsoil used for plantation	
4c	Number of Dumps within Lease & Outside Lease area	No proposal	No active dumps within Lease & Outside Lease area	Backfilling of waste being carried out
4d	Location of Dumps, within Ultimate Pit Limit	No proposal	Not applicable	Overburden/waste is being backfilled
4e	Number of Active & Alive Dumps	No proposal	Nil	
4f	No of Dead Dumps	No proposal	Nil	
4g	No of Dumps Stabilized	No proposal	-	All old dumps are matured and rehabilitated by plantation
4h	Whether Retaining Wall or Garland drain along Dumps are there	Yes	Yes	
4i	Length of Retaining	No proposal	Nil	Earlier made

	Wall or Garland drain along Dumps			retaining wall and garland drain was maintained
4j	No. of Settling tanks	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	Topsoil generated during the reporting year was used for plantation. Waste/OB generated being backfilled in the mined-out pit.		

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E. SOLID WASTE MANAGEMENT - BACKFILLING: -				
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	Backfilling proposed after full extraction of mineral	Being carried out	
5b	Area under backfilling of mined out area	About 1.68 Ha	About 1.2 Ha	Less area utilized than proposed for backfilling. Hence, violation under Rule 11(1) of MCDR, 2017 pointed out
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Topsoil proposed for reuse	Topsoil used for plantation	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	Backfilling under progress
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Backfilling has not been carried out as proposed in the approved Review of Mining Plan. Violation under Rule 11(1) of MCDR, 2017 pointed out in this regard.		

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F. PROGRESSIVE MINE CLOSURE PLAN: -				
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2)	To be submitted before 01st July every year	PMCP report received in time.	Annual Report submitted on 29.06.2023
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	No proposal	Nil	Backfilling of the part mined out area is under progress.

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	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			
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	Backfilling proposed in about 8.00 Ha. of mined out area during the plan period of 2020-21 to 2024-25	About 1.2 Ha in FY 2022-23	Backfilling is under progress. About 4.11 Ha. cumulative up to 2022-23.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 1000 nos ii) Nil iii) Nil	i) 1610 Nos ii) Nil iii) Nil	Greenbelt is being developed along the lease boundary
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring of air, water & noise proposed	Environmental monitoring of air, water & noise was carried out as per the proposal	All values of environment parameters were within permissible limits
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Annual PMCP report has been submitted. Plantation has been carried out as per the proposal.		

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8f	Baseline information on existence of plantation & additional plantation done	Plantation proposed 1000 saplings	1610 saplings	As per AR 2022-23
8g	Survival rate	Not specified	Approx 85%	
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads through water tanker.	Water sprinkling being done on haul roads to suppress the dust generated	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in & around the mine area was good.		

Sl. No	Item	Comments		Remarks
I. COMPLIANCE OF RULE-45: -				
9a	Status of Submission of Monthly & Annual Returns	MR being submitted regularly AR Submitted up to = FY 2022-23		
Sl. No	Item	Details Given in A.R	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager- Arvind Bhaurao Zade Mining Engineer- Piyush Sharma Geologist- Divya Kant Dave	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Total Area= 129.3 ha up to 2022-23	Total Area= 129.3 ha up to 2022-23	
9d	Scrutiny of Annual return on afforestation	Within lease area 1610 nos. @ 85% survival rate	Within lease area 1610 nos. @ 85% survival rate	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	No generation of mineral rejects reported	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM opening stock- Nil Production- 2497844.550 Closing stock- Nil	ROM opening stock- Nil Production- 2497844.550 Closing stock- Nil	
9g	Scrutiny of Annual	Ex. Mine price and cost	Captive consumption	

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	return on sale value, Ex. Mine price & production cost	of production - Rs. 366.38/Tonne Sale value-Nil		
9i	Scrutiny of Annual return on fixed assets	Rs. 222689182.00/- including land, building, plant and machinery etc.	Rs. 222689182.00/- including land, building, plant and machinery etc.	
9k	Scrutiny of Annual return on mining machineries	Shovel -02nos, Backhoe- 03 nos., Dumper-09 nos., Dozer-01 nos., Drill Machine-02 nos., Wheel Loader-01 nos., Motor Grader-01 nos.	Deployed	

10- Details of violations observed during current inspection: -Violation of Rule 11(1) of MCDR 2017 is pointed out after current inspection.

प्रेम प्रकाश / Prem Prakash

क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

भारतीय खान ब्यूरो, रायपुर / Indian Bureau of Mines, Raipur