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	Total Lease Area-269.95 Ha,
	Non-forest and forest land	Forest Land: Nil.
	Non-forest and forest land	Non-forest land 269.95 Ha
3	Mine Code	38MPR13001
4	IBM Registration Number under rule	IBM/256/2011
	45 of MCDR, 1988/2017	
5	Name of the lessee, Address, phone,	Jamul Cement Works, ACC Limited, Durg, CG-
		490024
	email and fax number	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	04.05.1980
	its period & expiry	04.03.1700
18	Date of second Renewal, if applicable	
	and the mental Committee	04.05.2000
10	and its period & expiry Date of submission of renewal	NA /Looso validity 21.02.2020\
19	Date of submission of renewal	NA (Lease validity 31.03.2030)
	application if Mining Operations are	
	continuing under deemed extension	
20	Name of the Nominated Owner with	Shri. Ajay Kapur
-,		ACC Limited, Cement House,
	Address, phone, email, fax number	Mahrsi Karve Road, MUMBAI-400020
	and date of appointment	Date of appointment:03/12/2022
		Mail.id: ajay.kapur@adani.com
21	Name of the Mine Agent with Address,	Suresh Dube, Agent & Chief Plant Manager
	phone, email, fax number and date of	Jamul cement Works, ACC Limited
	priorie, citian, rax number and date or	

File No. MCDR-MCHD.BLESTF/110/12507231RP0828BRIP_IR-OB_MPRO(CROPPR-puter No. 9134)

1/29148/2024

24	appointment	Mail.id: suresh.dubey@adani.com	
		Date of appointment: 01/11/2022	
22	Name of the Mines Manager with	Shri. Arvind Bhaurao Zade, Manager	
	Address, phone, email, fax number	Jamul Cement Works, ACC Limited	
		Email id:arvindbhaurao.zade@adani.com	
	and date of appointment in mines	Mob:07225026281 Date of appointment: 19/12/2015	
23	Name of the Mining Engineer,	Shri. Piyush Kumar Sharma	
		BE, Mining, Jamul Cement Works,	
	Qualification and total experience with	ACC Limited, Experience =11.5 years	
	Address, phone, email, fax number	Email.id: piyush.sharma@adani.com	
	and date of appointment in mine	Mob: 9179077730 Date of appointment: 16/07/2022	
24	Name of the Geologist , Qualification	Yes	
		Shri. Divya Kant Dave,	
	and total experience with Address,	M.Tech, (Applied Geology)	
	phone, email, fax number and date of	Experience = 17 years	
	appointment in mine	Jamul Cement Works, ACC Limited	
		Email.id: d.dave@adani.com, Mob: 7225026283	
		Date of appointment: 20/11/2015	
25	Whether Geologist and Mining	Yes	
	Engineer appointed in mines satisfy		
	the rule 55&carrying out their duties		
	as per rule 56 & 57 of MCDR, 2017.		
26	Date of Approval of Mining	Mining Plan approved vide letter no. 314(3)/99-	
	Plan/Modified Mining Plan with five-	MCCM©/MP-17 Dated 09.12.2019	
	year period and specific condition in		
	approval letter, if any.		
27	Date of Approval of Scheme of	Review of Mining Plan Approval letter no.	
	Mining/Modified Scheme of Mining	Durg/Lst/khayo-1212/2019, Dated 09.12.2019	
	with five-year period and specific	Proposal Period- 2020-21 to 2024-25.	
	condition in approval letter, if any.		
28	Mineral(s) granted in lease and proved	Limestone	
	for mining		
29	Method of Mining (Opencast,	Opencast	
	Underground)		
30	Category (Fully Mechanized, Others or	Category-A	
	Manual)	Fully Mechanized	
31	Captive/Non-Captive	Captive	

II. SCIENTIFIC MINING

1/29148/2024[Data in respect of financial year (2022-23) or cumulative, as applicable]

SI. 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			Return submitted		
1f	General remarks of inspecting officer on geology, exploration etc.	The entire potential m level of exploration ou	n proposed during the fir ineralized area has been at of that 81.0700 Ha. a oved Modification of Rev	explored under G-1 area proved as non-		

SI. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks	
		B. DEVELO	PMENT: -		
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 /Inter burden waste generation in m3	279030	542395		
2f	General remarks of	The pit developments has been carried out within the proposed area			

File No. MCDR-MCHD.BLB/TTF/110/12507231RP0828BRIP_R-OB_MPRO(CROPPR-puter No. 9134)

1/29148/2024

I/29148/202#

inspecting officer on	as approved in Review of Mining Plan.
development of pit	
w.r.t. type of deposit	
etc.	

SI. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
		C. EXPLOIT	TATION: -	
3a	Number of Pit Proposed for Production	01 Nos.	01 Nos.	
3b	Quantity of ROM mineral production proposed	3000000 MT	2497844.550 MT	ROM mineral production is less reportedly due to quality constraints.
3c	Recovery of Sailable/ Usable Mineral from ROM Production	100 %	100 %	
3d	Quantity of mineral reject generation	No proposal	Nil	No mineral reject generated
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	No such study carried out	
3j	Provision of drilling & blasting in mineral benches	Drilling and Blasting proposed	Drilling and blasting were carried out in mineral benches as proposed	
3k	Provision of mining machineries in mineral benches	Yes, HEMMS	HEMMs deployed	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB= 3M Limestone = 6-9M	Yes, suitable	
3	Total area covered	104.02 Ha. up to the	About 103.0 Ha. up to	

File No. MCDR-MCHD.BLESTIF/110/12507231RP0828BRIP_R-OB_MPRO(CROPPR-puter No. 9134)

I/29148/2024 I/29148/202#

24	m	under excavation/pits	end of plan period 2024-25	end of FY 2022-23		
		Ore to OB ratio for the				
	3n	pit/mine during the	1: 0.09	1: 0.21	Tonne:Cum	
		year				
		Total area put in use	138.51 ha up to the	About 129.00 ha up to		
30	20	under different heads	end of plan period	end of FY 2022-23		
			2024-25			
		at the end of year				
		Production of ROM	2018-19:3014460 T	2018-19:2138462.92	(All units in MT)	
		mineral during last	2019-20:3000000 T	2019-20: 2620330.22		
	3р	five-year period, as	2020-21:3000000 T	2020-21: 2362249.37	As per AR	
		applicable	2021-22: 3000000T	2021-22: 2185586.27	2022-23 submitted	
			2022-23: 3000000T	2022-23: 2497844.55		
		General remarks of	Open cast working is be	eing carried out by deplo	yment of HEMM with	
0	2~	inspecting officer on	the help of drilling & blasting. Less production is reportedly due to			
	3q	method of mining	due to quality constraints.			
		etc.				

SI. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks				
	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				

File No. MCDR-MCHD.BLB/TTF/110/12507231RP0828BRIP_R-OB_MPRO(CROPPR-puter No. 9134)

1/29148/2024

24	Wall or Garl		n			retaining wall and garland drain was maintained
4j	No. of Settlin	ng tanks		No proposal	Nil	
	Specific comments of		of	Topsoil generated during	ng the reporting year w	as used for plantation.
4k	inspecting	officer	on	Waste/OB generated be	eing backfilled in the m	ined-out pit.
4K	waste	dur	np			
	managemen	t				

SI. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
	E.	SOLID WASTE MANAGI	EMENT - 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
General remarks of inspecting officer on backfilling, reclamation etc. Backfilling has not been carried out as proposed in the ap Review of Mining Plan. Violation under Rule 11(1) of MCDR pointed out in this regard.				

SI. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
		F. PROGRESSIVE MIN	IE CLOSURE PLAN: -	
6a	•	To be submitted before 01st July every year	•	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.

File No. MCDR-MCHD.BLESTF/110/12507231RP0828BRIP_IR-OB_MPRO(CROPPR-puter No. 9134)

I/29148/2024	1	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	· ·	ns been submitted. Plantat	ion has been carried

SI.	Item	Proposals	Actual Work	Domarke
No	item	(2022-23)	(2022-23)	Remarks

File No. MCDR-MCHD.BLB/TTF/110/12507231RP0828BRIP_R-OB_MPRO(CROPPR-puter No. 9134)

24	G. MINERAL CONSERVATION: -					
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral to be fed to crusher plant	ROM is being fed to the crusher for further sizing & dispatched to their captive cement plant			
7b	Method of Grade- wise mineral sorting i.e. manual or mechanical	Blending by mechanized method	Bench wise blending as per the requirement of the cement plant			
7c	Different grade of mineral sorted out at mines	No proposal	Nil			
7d	Any beneficiation process at mines	No proposal	Nil			
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The run of mine ore is fed to crushers for sizing for feeding to the cement plant.				

SI. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks		
	H. ENVIRONMENT: -					
8a	Separate removal and utilization of topsoil	Separate removal and utilization of topsoil proposed	Generated topsoil used for plantation			
8b	Concurrent use or storage of topsoil	Concurrent use	Used for plantation purposes			
8c	Separate dumps for overburden, waste rock, rejects and fines	No proposal	Nil	Backfilling carried out		
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed for backfilling	OB & waste utilized for backfilling			
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	Proposed for backfilling	Backfilling is being carried out to restore the land	Backfilling is in progress		

File No. MCDR-MCHD.BLB/TTF/110/12507231RP0828BRIP_R-OB_MPRO(CROPPR-puter No. 9134)

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.		

SI. No	Item	Comm	nents	Remarks	
	I. COMPLIANCE OF RULE-45: -				
9a	Status of Submission of Monthly & Annual Returns	MR being submitted regular AR Submitted up to = FY 20			
SI. 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		

File No. MCDR-MCFD.BLBTTF/10/12/STZ31RP0R28BRIP_IR-OB_IRIP_RO(CROPPR puter No. 9134)

I/29148/202# return on sale value, of production - Rs. Ex. Mine price & 366.38/Tonne

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

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