

MCDR INSPECTION REPORT 2022-23

1) Name of Inspecting officer:	Shri. Prem Prakash
2) Designation	RCOM
3) Accompanying mine official with designation	Rajoo Joshi, HOD-Mines
4) Date of Inspection	20.09.2023
5) Last date of Inspection & Officer	Date-14.10.2022 Shri D. Upadhyay, Sr. ACOM

I. GENERAL INFORMATION

Sl.No	Particulars	Details
1	Name of the Mine	Maldi Mopar Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	553.656 ha. Non Forest = 553.656 ha. Forest = 0.00 ha.
3	Mine Code	38CHG19003
4	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/447/2011
5	Name of the lessee, Address, phone, email and fax number	Ambuja Cements Limited, P.O. Rawan, Tehsil Baloda Bazar, District Baloda Bazar-Bhatapara, Chhattisgarh - 493331 Phone No.: 8982073586 shiv.sahu@ambujacement.com
6	Village	Maldi, Mopar, Karmandi and Bordih
7	Taluka/Mandal	Baloda Bazar & Bhatapara
8	District	Baloda Bazar- Bhatapara
9	Pin Code	493331
10	State	Chhattisgarh
11	Post office	Rawan
12	Nearest police station	Baloda Bazar
13	Nearest Railway station	Bhatapara
14	Date of Grant of Mining Lease	18.02.2009
15	Date of Execution	18.02.2009
16	Date of opening of Mine	06/12/2014
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address,	Shri. Ajay Kapur, Elegant Business Park, MIDC Cross Road, B Off

	phone, email, fax number and date of appointment	Andheri Kurla Road Andheri, Andheri, East Mumbai 400059 Phone : 07727-220010 Email: ajay.kapur@adani.com Date of Appointment: 17.09.2022
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri. Rajoo Joshi, M/s Ambuja Cement Ltd., PORawan, TehsilBaloda Bazar District- Baloda Bazar- Bhatapara, 493331. Phone: 07727-220010 Email: rajoo.joshi@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	Shiv Kumar Sahu, M/s Ambuja Cement Ltd., PORawan, TehsilBaloda Bazar District- Baloda Bazar- Bhatapara, 493331. Phone: 8982073586 Email: shiv.sahu@adani.com Date of Appointment:04.09.2020
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Vishwapratap Singh M/s Ambuja Cement Ltd., PORawan, TehsilBaloda Bazar District- Baloda Bazar- Bhatapara, 493331. Phone: +91 9505561496 Email: vishwapratap.singh@adani.com Date of Appointment:17.02.2023
24	Name of the Geologist , Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Santanu Chatterjee, M/s Ambuja Cement Ltd., PORawan, TehsilBaloda Bazar District- Baloda Bazar- Bhatapara, 493331. Phone: +91 9001090780 Email: santanu.chatterjee@adani.com Date of Appointment:23.07.2020
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.	Santanu Chatterjee (Geologist) and Viswa Pratap Singh (Mining Engineer)
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	30/08/2021
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	30/08/2021
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining(Open cast, Underground)	Open cast mining
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
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	G1 exploration
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 mineralised 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	
1e	Balance reserves as on 01/04/2023	Total reserve= 688.368 million tonnes		As per the 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 mineralised area has been explored under G-1 level of exploration.		

Sl. No	Item	Proposals(2022-23)	Actual Work(2022-23)	Remarks
B. DEVELOPMENT:-				
2a	Location of development w.r.t. lease area	Development as shown in production and development plan; South Block: 609400.000 ; 2394399.635 60650.000 ; 2394500.000 ; 609500.000 ; 2394500.000 ; 609600.000 ; 2394525.000	Excavation carried out at the proposed area. However, lateral development of pit observed lagging than envisaged in Mining Plan.	Violation under Rule 11(1) is issued in this regard.
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	1:0.10	1 : 0.10	Tonne:Cum
2d	Quantity of topsoil generation in m3	254892	169057	
2e	Quantity of overburden	126000	22753	

	generation in m3			
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The developments have been carried out as per the proposal.		

Sl. No	Item	Proposals(2022-23)	Actual Work(2022-23)	Remarks
C. EXPLOITATION:-				
3a	Number of Pit Proposed for Production	One (01)	One (01)	
3b	Quantity of ROM mineral production proposed	4000000 tonnes	1975576 tonnes	EC is for 2000000 tonnes
3c	Recovery of Sailable/ Usable Mineral from ROM Production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	No generation of mineral rejects
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	Blasted material from the mines is fed to the crusher
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	Deep hole drilling and Blasting proposed in mineral benches	Deep hole drilling and blasting is carried out in mineral benches as proposed	Types of drilling- Top hammer, Make-Sandvik and hole diameter- 102mm Sapcing = 4m Burden= 3.2m Types of Explosive= Bulk Emulsion explosive
3k	Provision of mining machineries in mineral benches	Yes, HEMMs	HEMMs deployed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height Topsoil/OB: Topsoil= 0.00 – 2.00m OB= 0.5 – 2.00m	Topsoil= 0.00- 2.00m OB= Nil	
3m	Total area covered under excavation/pits	27.83 ha. up to the end of plan period 2022-23	27.430 ha. Up to end of F.Y. 2022-23	
3n	Ore to OB ratio for the pit/mine during the year	1:0.10	1 : 0.10	Tonne:Cum
3o	Total area put in use under different heads at the end of year	Total put to use- 66.91 Ha. up to 2022-23	About 53.25 ha Up to end of F.Y. 2022-23	
3p	Production of ROM	2018-19=500000	2018-19=61545	As per AR submitted

	mineral during last five-year period, as applicable	2019-20=1000000 2020-21=1000000 2021-22= 2500000 2022-23=4000000	2019-20=132490 2020-21=3135 2021-22= 1988488 2022-23=1975576	
3q	General remarks of inspecting officer on method of mining etc.	Open cast working being carried out by deployment of HEMM with the help of drilling & blasting. Less production reportedly due to the present EC capacity.		

Sl. No	Item	Proposals(2022-23)	Actual Work(2022-23)	Remarks
D. SOLID WASTE MANAGEMENT - DUMPING:-				
4a	Separate Dumping of Topsoil, OB and Mineral Rejects	Proposed	Maintained	
4b	Location of Topsoil, OB and Mineral Rejects Dumps	In between the UTM co-ordinate Topsoil: 607976.668 & 608108.912 2394000.000 & 2394154.910 OB: 607605.498 & 607675.386 2394000.000 & 23943.220	Topsoil and OB generated during the reporting year was used for making bund and for plantation along the lease boundary	
4c	Number of Dumps within Lease & Outside Lease area	02	Lease area = Nil Out Side lease area: Nil	All the topsoil generated during the reporting year was used for plantation along the lease boundary.
4d	Location of Dumps, within Ultimate Pit Limit	In between the UTM co-ordinate 607605.498 & 607675.386 2394000.000 & 23943.220	NIL	
4e	Number of Active & Alive Dumps	01	NIL	
4f	No of Dead Dumps	No Proposal	NIL	
4g	No of Dumps Established	No Proposal	NIL	
4h	Whether Retaining Wall or Garland drain along Dumps are there	Yes	N/A	
4i	Length of Retaining Wall or Garland drain along Dumps	Retaining wall: 334m Garland Drain: NIL	Retaining wall: 550m Garland Drain: 2100m	Along the ML boundary
4j	No. of Settling tanks	No proposal	01	
4k	Specific comments of inspecting officer on waste dump management	Topsoil and OB generated during the reporting year was used for making bund and for plantation along the lease boundary.		

Sl. No	Item	Proposals(2022-23)	Actual Work(2022-23)	Remarks
E. SOLID WASTE MANAGEMENT - BACKFILLING:-				
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	No Proposal	Nil	No area has exhausted fully for carrying out backfilling
5b	Area under backfilling of mined out area	No Proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	No Proposal	Not applicable	
5d	Total area fully reclaimed and rehabilitated	No Proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Mineral has not been exhausted fully & thus no proposal was given for backfilling.		

Sl. No	Item	Proposals(2022-23)	Actual Work(2022-23)	Remarks
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.	Submitted along with AR as on 28.06.2023
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 v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	No proposal	Nil	No area is mined out fully at present
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	No proposal	Nil	No area has got matured for reclamation and rehabilitation purpose

	v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	1ha 1500 no's -	2.21ha 5529 no's -	As per AR and the PMCP return submitted
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	The lessee has carried out the PMCP activities as per the proposal. Monitoring of environmental parameters was done regularly. Plantation has been carried out along the south eastern side of the lease boundary.		

Sl. No	Item	Proposals(2022-23)	Actual Work(2022-23)	Remarks
G. MINERAL CONSERVATION:-				
7a	ROM mineral dispatch or grade wise sorting within lease area	Proposed for crushing of blasted ROM	Mechanized crushing and screening has been carried out	
7b	Method of Grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	N/A	N/A	
7d	Any beneficiation process at mines	No proposal	No beneficiation is done in mines except crushing	Only crushing is done, after which mineral is conveyed to plant through covered belt conveyors
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 cement plant.		

Sl. No	Item	Proposals(2022-23)	Actual Work(2022-23)	Remarks
H. ENVIRONMENT:-				
8a	Separate removal and utilization of topsoil	254892 m3	169057m3	Utilization along the lease boundary
8b	Concurrent use or storage of topsoil	Proposed for concurrent use and stacking	Being used concurrently	Used for plantation purpose
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate dumps for overburden, waste rock, rejects is proposed	Generated waste /top soil has been used in plantation	
8d	Use of overburden, waste rock, rejects and fines	No proposal	NIL	

	dumps for restoring the land to its original use			
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No proposal	NIL	
8f	Baseline information on existence of plantation & additional plantation done	1ha 1500 n's	2.21ha 5529 no's	
8g	Survival rate	Not specified	99%	
8h	Water sprinkling on roads to control airborne dust	Proposal of water sprinkling on roads through water tanker	Water sprinkling being carried out 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 as the lessee had carried out afforestation & environmental protection measures as per the proposal.		

Sl. No	Item	Comments		Remarks
I. COMPLIANCE OF RULE-45:-				
9a	Status of Submission of Monthly & Annual Returns	MR Submitted up to = August 2023 AR Submitted up to = 2022-23 return submitted		
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	Geologist -Santanu Chatterjee Mining Engineer -Viswa Pratap Singh Manager -Shiv Kumar Sahu	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	53.25 Ha	About 53 Ha.	
9d	Scrutiny of Annual return on afforestation	Within lease area- 5529 @ 99% survival rate	Within lease area: 5529 @ 99% survival rate	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock:- ROM:0.00 Tonne Cement Grade: 232843.00 Tonne	Closing Stock:- ROM:0.00 Tonne Cement Grade: 232843.00 Tonne	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price & cost of production- Rs 286.02/Ton	Captive consumption	
9i	Scrutiny of Annual return on fixed assets	Rs. 249331579 including land, building and machinery	Appears to be correct	
9k	Scrutiny of Annual return on mining machineries	Shovel (6.6 m ³)-2 Nos., Backhoe (5.3 m ³)-1 No., Dumper (55 Tonne)-5 Nos.,	Observed deployed	

		Dumper (90 Tonne)-3 Nos., Dozer (330 HP)- 1 No, Drill Machine (102 to 115 mm)-2 Nos., Water Tabker-1 No		
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10- Details of violations observed during current inspection:-Violation of Rule 11(1) of MCDR 2017 is pointed out after current inspection.

Date: - 16.11.2023

प्रेम प्रकाश / Prem Prakash
क्षेत्रीय खान नियंत्रक / Regional Controller of Mines
भारतीय खान ब्यूरो, रायपुर / Indian Bureau of Mines, Raipur