

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/CND/LST-20/NGP

Mine code : 38MSH08022

- (i) Name of the Inspecting : **B014**) **CHANDRESH BOHRA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri harendra dayal, Agent & Shri Vijay- Geologist
Official with
Designation
- (iv) Date of Inspection : 14-Jan-23
- (v) Prev.inspection date : 27-May-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MARATHA (579.90 HA)**
- (b) **Registration NO.** : **IBM/447/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : MAHARASHTRA
- District : CHANDRAPUR
- Village : SONAPUR
- Taluka : RAJURA
- Post office : UPPARWAHI
- Pin Code : 442908
- FAX No. : 07173240008
- E-mail : sushil.paneri@ambujacement
- Phone : 07173240015
- (f) Police Station : Gad Chandur
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : Maratha Cement Liemstone Mine (Lease-I)
correspondance Post-Upparwahi, Tehsil-Korpana
District-Nagpur
3. (a) Lease Number : MSH0012
- (b) Lease area : 579.9
- (c) Period of lease : 50
- (d) Date of Expiry : 30-Dec-34
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S AMBUJA CEMENTS LTD.
ELEGANT BUSINESS PARK
GREATER BOMBAY MAHARASHTRA
Phone:
FAX :

Owner : Shri Bimlendra Jha
MD& CEO, Ambuja Cements
Ltd., Elegant Business
Park, MIDC Cross Road B,
Andheri East, Mumbai MUMBAI
(SUBURBAN) MAHARASHTRA
Phone: 022-40667000
FAX :

Agent : Shri Sushil Paneri
Maratha Cement Works M/s
Ambuja Cements Ltd Tehsil-
Korpana, Chandra pur
CHANDRAPUR MAHARASHTRA
Phone: 07173-240012
FAX :

Geologist

Name : J.B.Thapa, Full Time
Qualification : M.Sc . Geology
Appointment/ :
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	11-Jun-09
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	20-Feb-15
	:	MP modif under 17(3) MCR 2016	28-Jan-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Exploration already done inside lease area is adequate for G1 level and there is no proposal for 2021-22	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire laease area is under G1	Nil	
1e	Balance reserve as on 01/04/20		Reserves as on 1.04.2022 approx 71.10 Million Tons(111)	
1f	General remarks of inspecting officers on geology, exploration etc			A total of 351 boreholes have been drilled in past and entire lease area has been covered upto G1 level.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N2180800-218100 and E310500-310700, N2179300-2180000 and E310400-312000	Lateral and vertical deviation	Violation raised by RMG in this year only in reply of which lessee submitted that document has already been modified and said shroortcoming is addressed in modified document
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate benches in OB, top soil and minerals proposed	Seperate benches in OB, top soil and minerals available	

2c	Stripping ratio or ore to OB ratio	1:0.30	Nil	Violation in this respect has already raised by RMG in this financial year.
2d	Quantity of topsoil generation in m3	0.02 million m3	Nil	Violation in this respect has already raised by RMG in this financial year.
2e	Quantity of overburden generation in m3	1,20,000 m3	Nil	Violation in this respect has already raised by RMG in this financial year.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Deviation from lateral and vertical extension observed but violation already raised by RMG. Lessee submitted that document already modified. In 2022-23 work is going as per proposal.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	1.50 Million Tons	1.487750 Tons	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	0.13 Million Tons	0.06 Million Tons	

3g	Grade of sub grade mineral generation	34-42%	34-42%
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical	Mechanical
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal	Nil
3j	Provision of drilling and blasting in mineral benches	Proposal for conventional drilling and blasting with Nonel	150 mm size drill machine for drilling with explosives ANFO, SME, Kelvex etc. Rock breaker is also used.
3k	Provision of mining machineries in mineral benches	Shovel Dumper combination	Shovel Dumper combination
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8 mtr	8 mtr in commensuration with Shovel digging height
3m	Total area covered under excavation/pits	area under mining 97.17 ha for entire plan period upto 31.03.2024	95.85 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.30	Nil
3o	Total area put in use under different heads at the end of year	Upto March 2024 - Mining- 97.17 ha, waste dump- 24.49 ha, top soil- 5.80 ha, infrastrutere- 12.66 haplantation - 31.38 ha	Mining -95.85 ha, waste dump- 15.79 ha, infrastructure and road- 13.25 ha, planttation-37 ha

3p	Production of ROM mineral during the last five year period as applicable	2021-22- 1.5 MT	2021-22- 1.49 MT
		2020-21- 1.5 MT	2020-21- 1.45 MT
		2019-20- 1.5 MT	2019-20- 1.43MT
		2018-19- 1.5 MT	2018-19- 1.5 MT
		2017-18- 1.5 MT	2017-18- 1.49 MT
		2018-19- 1.5 MT	2017-18- 1.5 MT

3q	General remarks of inspecting officers on method of mining etc.	Mine is running as A category fully mechanized mine with shovel dumper combination and deep hole drilling and blasting.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	seperate dumping of top soil, ob and sub grade proposed	Nil OB and waste reported in year 2021-22	
4b	Location of topsoil, OB and mineral reject dumps	Top soil- E310000-311300 and N 2178750- N2179900, waste dump- E 310400-310650 and N2178950- 2179400 , sub grade- E311900-312100 and n 2179900- 2179100	ONB and top soil not generated. sub grade was partly blended and partly stacked at proposed location.	
4c	Number of dumps within lease area and outside of lease area	06 within lease area	06 within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL	outside UPL	
4e	Number of active and alive dumps.	06	06	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	Dumps not matured

4h	Whether Retaining wall or garland drain all along dumps are there.	no proposal of garland drain and proposal of retainingwall was threr	Retaining wall construction in progress	
4i	Length of Retaining wall or garland drain all along dumps	No such proposal	retaining wall construction going on	
4j	Number of settling ponds	No such proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			Waste generation was not as per proposal , violation in this respect was already raised and lesse submitted that Modification has been done in doccument.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No such proposal	Nil	
5b	Area under backfilling of mined out area	No such proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For plantation purpose	No top soil generated in year 2021-22	
5d	Total area fully reclaimed and rehabilitated	No such proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No area has been matiured till now as material is lying in depth so there was no proposal of backfilling and no backfilling done.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual Report of PMCP must be submitted by 1st of July of every year	PMCP report submitted timely.	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	01 ha	01 ha	
6d	No. of saplings planted during the year	2000 saplings	2000 saplings	
6e	Cumulative no .of plants	No such proposal	NA	
6f	Any other method of rehabilitation	No such proposal	Nil	
6g	Cost incurred on watch and care during the year	No such proposal	2 lakh approx	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposal	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No such proposal	Nil	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No such proposal	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	2000 saplings	2000 saplings	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1 ha	1 ha	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No such proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring	quarterly monitoring done	All the parameters are within limit
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP proposals are implemented.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Despatch to cement plant	Despatch to cement plant	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical only size reduction by crusher	Mechanical only size reduction by crusher	
7c	Different grade of mineral sorted out at mines.	No such proposal	Nil	
7d	Any beneficiation process at mines .	No such proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			All the ROM is utilized in cement manufacturing by blending .

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	seperate removal and utilization of Top soil	No top soil generated in year 2021-22	
8b	Concurrent use or storage of topsoil	plantation purpose	Nil tiop soil generated in year 2021-22	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes proposed seperate dump of top soil, waste and sub grade	Seperate dumps available for top soil, waste and sub grade	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	Nil	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Dump rehabilitation with plantation	plantation over dump is being done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	Plantation regularly done	
8g	Survival rate	Not mentioned	85%	
8h	Water sprinkling on roads to control airborne dust	Water tanker to control dust	water tanker is deployed	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Mining activities definitely affect aesthetic beauty of area but plantation is being done over dump and waste land. Water spray and other arrangements are done to control environmental aspects.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly return shall be submitted by 10th of every month and Annual return by 1st July	monthly return submitted upto Dec 2023 and Annual return of 2021-22 submitted timely.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- W.G.Tapase, Geologist- J.B.Thapa		

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/c working- 95.85 ha, waste disposal- 15.79 ha, infrastructure - 13.25 ha, plantation-37 ha	Detail appears in order
9d	Scrutiny of Annual return on afforestation	2000	It is in order
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	It appears to be in order
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	EMP & Cost of production- 217.26 Rs/T	Captive mines so EMP is equal to cost of production.
9h	Scrutiny of Annual return on fixed assets	Rs 366024906/-	It is combined for all three leases
9k	Scrutiny of Annual return on mining machineries	Rock Drill 115 mm-02, Dozer-02, Backhoe-02, Dumper 55 tonner-09, shovel-02, wheel loader-01	Machinery details are in order. A common fleet of all three leases is being maintained.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

Date :

(CHANDRESH BOHRA)

Indian Bureau of Mines