

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPMENT 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 : **G002** ) **OM PRAKASH GOPAL**  
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Shri. Harendra Dayal, GM (Mines)  
Official with  
Designation
- (iv) Date of Inspection : 27-MAY-22
- (v) Prev.inspection date : 06-DEC-21

**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 Limestone 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	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 proposals for 2021-22	NIL	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire lease area is under G1 level and there is no proposals for 2021-22	NIL	NIL
1e	Balance reserve as on 01/04/20	Reserves as on 1/4/2019 : 76.95 million tonnes (111)	Reserves as on 1/4/2021: 72.58 Million Tonnes (111)	NIL
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. There is no exploration proposal for 2021-22.	NIL	NIL

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	N 2180800-2181000 and E 310500 - 310700 N 2179300-2180000 and E 310400 - 312000	Lateral and vertical deviations from approved proposal	Short commings were communicated to lessee through violation letter. In reply the lessee stated that document has already been modified and said short-commings are addressed in modified mining plan.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate benches for top soil OB and minerals envisaged.	Seperate benching for top soil OB and minerals are being maintained as per proposal	NIL
2c	Stripping ratio or ore to OB ratio	1:0.30	1:0.00	Violation of rule 11(1) of MCDR 2017 communicated to lessee for site deviation.
2d	Quantity of topsoil generation in m3	0.02 million cu.m	NIL	NIL
2e	Quantity of overburden generation in m3	120,000 m3	NIL	Violation of rule 11(1) of MCDR 2017 communicated to lessee for site deviation.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NIL	NIL	Lateral and vertical deviations from approved proposal s noticed during inspection and violation under rule 11(1) of MCDR 2017 issued. In its reply lessee stated that document has already been modified and said short-commings are addressed in modified mining plan.

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## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	NIL
3b	Quantity of ROM mineral production proposed	1.50 Million Tonnes	1487750 tonnes	NIL
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	NIL
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NIL
3f	Quantity of sub grade mineral generation.	0.13 million tonnes	0.06 million tonnes	NIL
3g	Grade of sub grade mineral generation	34 to 42% CaO	34 to 42% CaO	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Proposal for deployment of conventional method of drilling and blasting	150mm size drill machene deployed for drilling the blast holes. Rock breakers are also being used for breaking oversized boulders . Explosives used are, ANFO, SME, Kelvex, Solar Prime, Solar gel etc.	NIL

3k	Provision of mining machineries in mineral benches	Fully mechanized machineries	All the operations are through mechanical means as the mine is fully mechanized Category A mine.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench height 8 Mtr	Bench height is as per proposal .	Bench height of 8.0 m is appropriate for the method of Mining.
3m	Total area covered under excavation/pits	Area under Mining: 97.17 ha for entire Proposal period ie upto 31/3/2024.	Area under Mining: 95.85 ha upto 31/3/2022.	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.30	1:0.00	Deviation communicated to lessee through violation letter.
3o	Total area put in use under different heads at the end of year	Total Area put to use at the end of plan period ie 31/3/2024 are: Mining: 97.17 ha, Storage of top soil 5.80 ha, Waste Dump: 24.49 ha, Infrastructure and Roads: 12.66 ha and Other (Plantation): 31.38 ha,	Total Area put to use at the end of reporting period ie 31/3/2022 are: Mining: 95.85 ha, Waste Dump: 15.79 ha, Infrastructure and Roads: 13.25 ha and Other (Plantation): 37 ha,	NIL
3p	Production of ROM mineral during the last five year period as applicable	2021-22- 1.5 MT 2020-21- 1.5 MT 2019-20- 1.5 MT 2018-19- 1.5 MT 2017-18-1.5 MT	2021-22- 1.49 MT 2020-21- 1.45 MT 2019-20- 1.43 MT 2018-19- 1.50 MT 2017-18 -1.49 MT	NIL

3q	General remarks of inspecting officers on method of mining etc.	A category Fully mechanised mine	A category Fully mechanised mine	Fully	NIL
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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)	Separate duming of top soil, OB & waste reject.	Generation of top soil and OB not reported in 2021-22	NIL
4b	Location of topsoil, OB and mineral reject dumps	Top soil : E310000 - 311300 and N2178750-2179900 Waste dump : E 310400- 310650 and N2178950-2179400: E 310100- 310400 and N2181600-2181900 Sub-grade : E 311900- 312100 and N 2178900-2179100	Generation of top soil and OB not reported in 2021-22. Generated subgrades utilised for blending purpose.	NIL
4c	Number of dumps within lease area and outside of lease area	06 within lease area	06 within lease area	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	NIL
4e	Number of active and alive dumps.	06	06	NIL
4f	Number of dead dumps.	Not mentioned	NIL	NIL
4g	Number of dumps established.	Not mentioned	NIL	NIL

4h	Whether Retaining wall or garland drain all along dumps are there.	In the year 2021-22 there was no proposal for construction of garland drain . A retaining wall along the toe of the dumps will be constructed.	NIL	NIL
4i	Length of Retaining wall or garland drain all along dumps	Contruction of retaining wall along the toe of dumps.	Construction in progress.	NIL
4j	Number of settling ponds	No such proposal	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	NIL	NIL	Generation of OB and soil not reported in 2021-22.

#### 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	MIneral still continued in depth thus there is no proposal for backfilling.
5b	Area under backfilling of mined out area	No such proposal	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Stacking seperately and utilisation for plantaion as and when required.	Soil generation not reported in 2021-22.	NIL
5d	Total area fully reclaimed and rehabilitated	No such proposal	NIL	NIL



5e	General remarks of inspecting officers on backfilling and reclamation etc.	NIL	NIL	Mineral still continued in depth and there is no scope for backfilling and reclamation. No backfilling was noticed during inspection.
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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual Report on PMCP implemented during reporting period should be submitted before 1st July every year is mandatory.	Report of the PMCP work implemented in 2021-22 was submitted.	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha) .	one ha	one ha	NIL
6d	No. of saplings planted during the year	2000 saplings	2000 saplings	NIL
6e	Cumulative no .of plants	No such proposal	NA	NIL
6f	Any other method of rehabilitation	No such proposal	NIL	NIL
6g	Cost incurred on watch and care during the year	No such proposal	NA	NIL

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NIL	NIL	Mineral continued in depth and there is no scope for backfilling
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NIL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2000 splings	2000 saplings	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	NIL

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation along lease boundary	As per proposal	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring should be done in core and buffer zone	Monitoring done	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NIL	NIL	NIL

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Disptch of ore after crushing and sizing. Blending will be as per plants requirement.	Dispatch of ore to captive plant as per proposal.	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	NIL
7c	Different grade of mineral sorted out at mines.	No such proposal	Grade wise sorting not done.	NIL
7d	Any beneficiation process at mines	NIL	NIL	NIL

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NIL	NIL	To ensure mineral conservation, subgrade ore are being mixed with proper ratio to maintain the pile target .
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**Environment:**


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Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seperate removal and utilisation of top soil envisaged.	Generation of top soil not reported in 2021-22	NIL
8b	Concurrent use or storage of topsoil	Storage	Generation of top soil not reported in 2021-22	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumps for top soil OB and subgrade material proposed.	Generation of top soil and Overburden not reported in 2021-22. Generated subgrade are utilised after blending.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	NIL	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal	NIL	Mineral continued in depth and there is no sacope for rehabilitation of pits.

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposal for plantation of 2000 saplings envisaged.	Plantation as per proposal	NIL
8g	Survival rate	Not mentioned	85%	NIL
8h	Water sprinkling on roads to control airborne dust	Yes to control the proposal for water sprinkling on haul roads is envisaged.	Water tankers deployed for sprinkling purposes.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NIL	NIL	Mining activities definitely affect the aesthetic beauty in and around mining area. To retain aesthetic beauty plantation are being done over non mining zone and water sprinkling on haul road is being practice to suppress dust emission.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	A monthly return shall be submitted in online mode to IBM before 10th of every month in respect of preceding month. Annual return shall be submitted in online mode to IBM before the 1st day of July each year for the preceding year.	Monthly returns and Annual return for 2021-22 are being submitted in online mode regularly.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri W. G. Tapase Geologist: Shri J.B.Thapa	Mining Engineer and Geologist are in place.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area Covered under O/C Workings :95.85 ha; Used for waste disposal: 15.79 ha; Occupied by plant, buildings, residential, welfare buildings & roads: 13.25 ha; Other Purpose (Plantation):3 7.0 ha	Details on land use patten appears in order.	NIL
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year 20021-22: 2000, (ii) Survival rate in percentage: 85%	Details on afforestation apperas to be in order.	NIL

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject Generation : NIL	Reporting on reject generation appears to be in order.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening and closing stocks of ROM and graded ore is reported as NIL	Details of opening and closing stocks appear to be in order.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine Price and Cost of production : Rs. 217.26/tonnes and Cost of production : Rs. 217.26/tonnes	Captive mine thus cost of production shall be equal to EMP.	NIL
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in Rs) : 366024906/-	Financial aspects may not be commented upon.	NIL
9k	Scrutiny of Annual return on mining machineries	ROCK DRILL (NON ELEC.) 115.000 MM: 2 ; DOZER 340.000 HP: 2 ; BACK HOE 0.900 CUM: 2 ; SHOVEL (HYDRAULIC) 3.500 CUM: 1 ; SHOVEL (HYDRAULIC) 5.100 CUM: 2 ; WHEEL LOADER 5.000 CUM :1 ; DUMPER 55.000 TONNE: 9 ; MOTOR GRADER 145.000 HP: 1 ; CRANE;1, EXPLOSSIVE VAN:2:	Mining Machenaries details are in order. A common fleet of maining machenaries being deployed in all the three contiguous leases of same lessee.	NIL

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

Violation observed				Show couse position			
Rule NO.		Issued on	Compliance on	Rule NO.		Issued on	Compliance on
MCDR17	Rule 11(1)	08-JUN-22	21-SEP-22				

**Date :**

**(OM PRAKASH GOPAL)**

Indian Bureau of Mines