

**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 : 38MSH08024

- (i) Name of the Inspecting : **B014**) **CHANDRESH BOHRA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri T. Choudhary, Manager Mines
Official with
Designation
- (iv) Date of Inspection : 12/06/2019
- (v) Prev.inspection date : 30/09/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MARATHA LIMESTONE (49.00**
- (b) **Registration NO.** : **IBM/447/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MAHARASHTRA
District : CHANDRAPUR
Village :
Taluka :
Post office :
Pin Code :
FAX No. : 07173240008,9
E-mail : tripurari.choudhary@ambujac
Phone : 07132400008,9
- (f) Police Station : Gadchandur
- (g) First opening date : 01/01/2016
- (h) Weekly day of rest :
2. Address for : Maratha Limestone Mines
correspondance : Village- Uparwahi, Teh-Korpana
Dist-Chandrapur, Maharasthra- 442908
3. (a) Lease Number : MSH0375
- (b) Lease area : 49
- (c) Period of lease : 50
- (d) Date of Expiry : 23/05/2056
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 : Sushil Paneri
 CHANDRAPUR MAHARASHTRA
 Phone:
 FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	15/10/2003
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	12/08/2011
	:	MP modif under MCR 1960	02/09/2016

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	Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	As no exploration proposed and not carried out so expenditure is nil .
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Mineralized area-49 Ha Non Mineralized area- Nil	Whole Lease area has been explored under G-1 category.
1e	Balance reserve as on 01/04/20	8.16MT	8.18MT	Balance reserve is slightly lower than proposed reserve as less production.
1f	General remarks of inspecting officers on geology, exploration etc			Whole Lease area has been geologically explored under G1 category..

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N311100- N3111600 E2179700- E2180350	N311100-N311600 E2179700-E218000	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	separate benches in Top soil and OB and mineral proposed.	4 benches in Mineral and interburden of 8 metre height is made. 0.3 to 0.6 metre thick soil is reoved separately.	
2c	Stripping ratio or ore to OB ratio	1:0.72	1:0.27	Violation is raised in this effect.
2d	Quantity of topsoil generation in m3	50000m3	4330 m3	Less Top soil handled because of quality issue mining was done over already broken up area.

2e	Quantity of overburden generation in m3	15500 m3	55305 m3	The development is less as compared to planned . Violation is raised in this reagr.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The development quantity is very less as compared to planned quantity and violation is raised in this effect.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	No. of pit-1 N311100- N311600 E2179700=E2180 350	No. of pit- 1 N311100-N311600 E2179700=E2180000 and also at N311100-N311600 E 2177600-E2177910	Violation is raised in this effect.
3b	Quantity of ROM mineral production proposed	0.50 Million Tonnes	0.35 Million Tonnes	Less production as per plant requirement
3c	Recovery of sailable/usable mineral from ROM production	100	100	
3d	Quantity of mineral reject generation	310000 tonnes	69084 Tonnes	
3e	Grade of mineral rejects generation and threshold value declared.	CaO<34%	CaO<34%	
3f	Quantity of sub grade mineral generation.	Not in proposal	Nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized Crushing	Mechanized crushing	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Beneficiation study with installation of wobbler by IBM .
3j	Provision of drilling and blasting in mineral benches	The drill holes of 150 mm will be drilled for blasting the holes . Rock breakerwill be used for breaking of oversized boulders.	The drill holes of 150 mm are drilled for blasting the holes . Rock breaker is being used for breaking of oversized boulders. Aquadine, Energel, Kelvex-600 are used as an explosives.	The Nonel is used as an initiation system, Blast induced vibration are being measure which is well with in limit.
3k	Provision of mining machineries in mineral benches	Heavy Earth Moving machinery with Hydraulic Shovel Dumper combination will be used for mining purpose.	Heavy Earth Moving machinery with Hydraulic Shovel Dumper combination is used for mining purpose.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8 mtr	8 mtr	Height of bench is commensurate with boom height of excavator.
3m	Total area covered under excavation/pits	34.95 Ha area upto 5 year proposal upto 31.03.2021	21.87 Ha area tiull now.	working is well with in proposed limit.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.72	1:0.27	Violation is raised in this effect.
3o	Total area put in use under different heads at the end of year	Area under mining- 34.95 Ha, Area under dump- 2.28 Ha proposed upto 31.03.2021	Area under mining -21.87 ha, area under waste dump-1.76 ha	well within proposed limit.
3p	Production of ROM mineral during the last five year period as applicable	2018-19- 0.50MT 2017-18-0.50MT 2016-17-0.50MT 2015-16-0.50MT 2014-15-0.50MT 2013-14-0.519 MT	2018-19- 347884 Tonnes 2017-18-356450 Tonnes 2016-17-272050 Tonnes 2015-16-290200Tonnes 2014-15-313900 Tonnes 2013-14- 318600 Tonees	Actual production is well within limit of proposed production.

3q	General remarks of inspecting officers on method of mining etc.	On inspection it was found the mining was done at E2179600 - 2179100 which was not proposed and OB ratio was low which lead to unsystematic bench configuration , violation is raised in this effect.. Boundary pillars were found and Mining Lease has been executed for extended period as per Section 8 A5 of MMDR Act.
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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 stacking of Top Soil & Waste proposed.	4 benches of waste and Limestone is there. Waste is as interden. Topsoil of 0.3 m to 0.6 m is removed and stacked separately.	
4b	Location of topsoil, OB and mineral reject dumps	Waste dump N2179750- N2179900 & E E310950- E3111150	Waste dump N2179750- N2179900 & E E310950- E3111150	
4c	Number of dumps within lease area and outside of lease area	01 within lease area	01 with in lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Inside UPL	inside UPL	
4e	Number of active and alive dumps.	1	1	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	

4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	recently started dumping so garland drain is not available. it will be made in next year.
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			only one dump of 4 metre height is available.

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.	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling is being done as not proposed as area not matured for backfilling.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	yes	yes	information submitted on 10.01.2019 .
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	Nil	Nil	The whole area is mineralized so planation is done in nearby lease.
6e	Cumulative no .of plants	Nil	Nil	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	No	As area not matured for backfilling so not proposed.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	Whole lease area is mineralized area.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment monitoring is proposed in Core and Buffer Zone.	Environment monitoring is being done in Core and Buffer Zone.	As per reports all the parametres are well within limit.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM after crushing and sizing despatched to cement plant.	work done as per proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	As per blast hole sample analysis results Limestone is mixed with proper ratio at crusher to maintain the pile target.
7c	Different grade of mineral sorted out at mines.	By blending at crusher by feeding different grade of ore in certain proportion to maintain the pile target	by blending at crusher with proper proportion from different grade of muck pile	Different muckpile of different grade is being fed to crusher with certain feed to get desired quality of pile.
7d	Any beneficiation process at mines	Crushing of Limestone for size reduction	crushing of llimestone for size reduction	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Quarry Master software is used for scheduling of different grade of muckpile available in the mines and accordingly supply is being maintained from all sources to get desired quality. which is being ensured by installation of cross belt analyzer after crusher.
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Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	Top soil are being stacked separately and utilized for plantation purpose.
8b	Concurrent use or storage of topsoil	for plantation	for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	Separate dumps for Top soil and waste is being done.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No	No	As mineral is not exhausted so backfilling not done.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	No backfilling is done. dumps are stabilized with plantation.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Nil	Nil	The whole are is mineralized so plantation in lease area is not proposed. but 15800 saplings planted in nearby leases.
8g	Survival rate	Not Applicable	Not Applicable	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	6 KL water tanker deployed for suppression of dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Inside lease whole area is mineralised so no plantation work is there but around the mines plantation work done on dumps and non mineralized area which looks good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns are required to be submitted by 10th of every month for the preceding month and Annual return is to be submitted by 30th June of every year for yhe previous financial year.	Monthly returns submitted upto May 19. Annual return submitted in time for year 2017-18 and AR for year 2018-19 will be submitted in due course of time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager Mining and Mining Engineer appointed.	Geologist as reported is Shri J.B. Thapa who is also is appointed in another lease .	Geologist as per rule 55 of MCDR 20117 is not appointed, violation is raised in this effect. .

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	21.87 Ha upto 2017-18	well within limit of Finanacial assurance submitted.
9d	Scrutiny of Annual return on afforestation	Nil plantaion inside lease area and 3453 tress outside lease.	as per return .
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	146943 tons of waste handled in yearv 2017-18 and no mineral reject generated.	This information is for year 2017-18 as at the time of inspection return of year 2017-18 was submitted.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual return of 2017-18 ore production mewntioned was 356454 tonees with no stock an Ex mine prize 215.52 Rs/Ton.	This figure is of year 2017-18.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mines Price- 215.62 Rs/T Cost of Production- 215.62 Rs/T Sale Value- Not Applicable as captive consumption.	
9h	Scrutiny of Annual return on fixed assets	Fixed asset submitted value is 0 Rs as information furnished incombined information of lease 38MSH08021	Net closing assett given in return of 38 MSH08021 is Rs 465331444/-.
9k	Scrutiny of Annual return on mining machineries	Drill-3, Dozer-3, Shovel-4, Dumper-14, Explosive Van-2, Backhoe-1, Water Tanker-2, Front End Loader-1	All the machineries are common for all three leases which are adjoining of lessee.

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)	27/06/2019		MCDR17 Rule 11(1)	27/06/2019	
MCDR17 Rule 55(1)(1)	27/06/2019		MCDR17 Rule 55(1)	27/06/2019	

Date :

(CHANDRESH BOHRA)

Indian Bureau of Mines