

**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 :** 38MSH08021

- (i) Name of the Inspecting : **B014** ) **CHANDRESH BOHRA**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri T. Choudhary Mines Manager  
Official with  
Designation
- (iv) Date of Inspection : 14/06/2019
- (v) Prev.inspection date : 29/09/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **MARATHA (880.31 HA)**
- (b) **Registration NO.** : **IBM/447/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MAHARASHTRA  
District : CHANDRAPUR  
Village : UPPARWAHI  
Taluka : RAJURA / KORPANA  
Post office : UPPARWAHI  
Pin Code : 442908  
FAX No. : 07173-40008  
E-mail :  
Phone : 40017-20
- (f) Police Station :
- (g) First opening date : 17/07/2001
- (h) Weekly day of rest :
2. Address for : P.O.- UPPARWAHI, TAH.- KORPANA,  
correspondance : DISSTT.- CHANDRAPUR-442908  
STATE- MAHARASHTRA
3. (a) Lease Number : MSH0229
- (b) Lease area : 880.31
- (c) Period of lease : 50
- (d) Date of Expiry : 13/12/2050
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : M/S GUJARAT AMBUJA CEMENTS LTD.  
P.O.- UPPARWAHI, TAH.-  
KORPANA, DISSTT.-  
CHANDRAPUR(M.S.) CHANDRAPUR  
MAHARASHTRA  
Phone:40017-20  
FAX :07173-40008

Owner : BIMLENDRA KUMAR JHA  
MD& CEO, Ambuja Cements  
Ltd, Elegant Business Park,  
MIDC Cross Road B, Andheri  
East MUMBAI (SUBURBAN)  
MAHARASHTRA  
Phone: 022-40667000  
FAX :

Agent : Sushil Paneri  
CHANDRAPUR MAHARASHTRA  
Phone:  
FAX :

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	17/03/2005
		Renewal under rule 24 MCR1960	18/08/2005
		Mining Scheme rule 12 MCDR1988	05/07/2006
		Mining Scheme rule 12 MCDR1988	12/08/2011
		FMCP under 23C(1)	31/07/2013
		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	Whole lease area has been explored at G1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Not Applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	65.80 Million Tonnes	66.54 Million Tonne	Production achieved was less than proposed production so actual reserve is higher than proposed reserve.
1f	General remarks of inspecting officers on geology, exploration etc		Mineralized area -310.98 Ha, Non mineralized area-569.33 Ha	The whole Lease area is explored upto G1 level of exploration.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	250-218 MRL N310200-312100 E21799900-2181300 226 MRL- N308900-309500 E2185000-2185400	250-218 MRL N310200-312100 E21799900-2181300 237 MRL- N308900-309500 E2185000-2185400	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in Top soi, Development/Mi neral.	5 benches of ore as well as OB because waste is found as interburden. Top soil is found 0.3 to0.6 m thickness which is separately removed and stacked and used for plantation.	
2c	Stripping ratio or ore to OB ratio	1:0.91	1 :.30	Violation is raised in this matter.

2d	Quantity of topsoil generation in m3	110000 m3	134406m3	
2e	Quantity of overburden generation in m3	Top soil-0.11 MT, Sub Grade-0.49 MT & Waste- 1.21 MT	Top Soil-0.13 MT, Sub Grade-0.22 MT & Waste- 0.14 MT	Less Waste handling so violation is given in this regard
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Overall development is less as compared to proposed development so violation is issued in this regard.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	No. of pits -2 N 308900-309500 E2185000-2185400 N310200-312100 E2179900-2181300	No. of pits-2 N 308900-309500 E2185000-2185400 N310200-312100 E2179900-2181300	2 pits North Block( Lakhapapur ) & south block (Upparwahi ) where working is going on.
3b	Quantity of ROM mineral production proposed	2.00 Million Tonne	1.87 Million Tonne	Less production as per plant requirement.
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.	Not Applicable	Not Applicable	
3f	Quantity of sub grade mineral generation.	0.49 Million Tonne	0.22 Million Tonne	CaO34-42 % . Maximum utilized in blending so quantity generated is less.
3g	Grade of sub grade mineral generation	CaO 34-42%	CaO34-42%	Stacked separately.

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical Crushing	Mechanical Crushing	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches	DTH drill of 150mm Dia size bit is deployed for drilling. Commercial explosives will be used with NONEL for blasting. Secondary breaking will be done by Rock Breaker.	Done as per proposal.	Every blast induced vibration are being measured and well within limit. Blasting study carried out by TMP, IBM division.
3k	Provision of mining machineries in mineral benches	Fully Mechanised mining with Hydarulic Shovel Dumer Combination.	As per proposal	Common machineries for all three leases.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8 Mtrs	8 Mtrs	Height of the bench is in commensurate with boom height of excavators.
3m	Total area covered under excavation/pits	As per propasal for Mining Plan submitted for year 2016- 17 to 2020-21 Net area mining at the end of propasal period will be 175.50Ha.	Present pit area 123.67 Ha at the end of 2018- 19.	Well within propasal limit and mining lease limit.
3n	Ore to OB ratio for the pit/mine during the year.	1:.90	!:0.30	Ore to OB ratio is less compared to planned and violation is issued to this effect.

3o	Total area put in use under different heads at the end of year	Mining-175.50 Ha, Mineral Storage-2 Ha, Roads-5.55 Ha, Infrastructure -5.26 Ha, OB waste dump-40.50 Ha, Top soil dump-10.29 Ha, Plantation-52.72 Ha, proposed till end of plan period i.e. 31.03.2021.	Mining-123.67 Ha, Mineral Storage-2 Ha, Roads-2.71 Ha, Infrastructure-7.18 Ha, OB waste dump-24.58 Ha, Top soil dump-8.61 Ha, Plantation-90.77 Ha, Total-259.52 ha.	All are well with in limit except infrastructure because some office building & weigh bridge installed for newly developed pit but overall area is well with in limit.
3p	Production of ROM mineral during the last five year period as applicable	2018-19- 2 MTPA 2017-18-2 MTPA 2016-17-2 MTPA 2015-16-2.105 MTPA 2014-15- 2.072 MTPA	2018-19- 1.87 MTPA 2017-18-1.769 MTPA 2016-17-1.619 MTPA 2015-16-1.469 MTPA 2014-15- 1.512 MTPA	Well within proposed production limit.
3q	General remarks of inspecting officers on method of mining etc.			Production is as per proposed location and very near to proposed target. Boundary pillars available. Only paints on pillars not done . instructed manager to get it done.

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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 soi, Waste and sub grade is proposed	Separate stacking done.	
4b	Location of topsoil, OB and mineral reject dumps	Top Soil N 2184800-2185130 E 309860-309975 Waste OB- N2181300-2180800 E312100-311400	Top Soil N 2184800-2185130 E 309860-309975 Waste OB- N2181300-2180800 E312100-311400	Worked as per propsal

4c	Number of dumps within lease area and outside of lease area	06	06	with in lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL. N2181300-2180800, E 312100-311400	out side UPL . waste dumpiming done at proposed location.	
4e	Number of active and alive dumps.	04	04	Max height of OB dumps is 22 metre with 4 lifts.
4f	Number of dead dumps.	02	02	
4g	Number of dumps established.	01	01	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			Waste dump is maintained as per propasal. plantation on dead dumps slopes need be increased. already told to accompanying mine officials.

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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.	Not in proposal	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	Not Applicable	
5d	Total area fully reclaimed and rehabilitated	Nil	Not Applicable	

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling was not proposed and done because area not matured for backfilling.
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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).	Yes	Yes	PMCP report submitted on 10.03.2019.
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	3.00 Ha	0.60 Ha.	Afforestation done is less as compared to proposal. violation is issued in this effect.
6d	No. of saplings planted during the year	7500	1500	Plantation carried out is lessas proposed whereas in adjoining lease more plantation done .violation is issued in this effect.
6e	Cumulative no .of plants	21250	8550	plantation from 2016-17 to 2018-19. violation is issued in this effect.
6f	Any other method of rehabilitation	Nil	Not Applicable	
6g	Cost incurred on watch and care during the year	12.25 Lakh	2.45 Lakh	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not in Proposal	Nil	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Not applicable	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil	
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)	Yes Monitoring in Core zone and buffer zone is proposed	Monitoring is being . Report shown.	all the parametres as per report are well within limit. But TTP of workshop was not in working condition on day of inspection.

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## Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM after crushing and sizing will be despatched to cement plant	as per proposal.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical crushing	as per proposal	Impact crusher provided for size reduction.
7c	Different grade of mineral sorted out at mines.	No sorting at mines	as per proposal	The blasted muckpile of different LSF is loaded proportionately and fed to crusher with the help of quarry master software to get the desired LSF of pile.
7d	Any beneficiation process at mines	No	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The limestone reserve is conserved with two way- 1. stacking of subgrade material 34-42 CaO separately. and maximise blending of sub grade with high grade material with the help of quarry master software.

## Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate stacking of Top soil and utilize for plantation	Top soil is removed separately and stacked separately and used for plantation.	
8b	Concurrent use or storage of topsoil	For plantation	as per proposal	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	separate dumps for Top Soil, subgrade and waste are proposed.	Separate dumping done as per proposal.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No	Not Applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Plantation on matured dumps	plantation done on matured dumps.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	7500 Nos.	1500 Nos.	Violation is issued in this effect.
8g	Survival rate	Not Proposed	70%	
8h	Water sprinkling on roads to control airborne dust	With water tanker	on some portion of haul road fixed type sprinkler are provided. 20KL & 9 KL water tanker is also provided.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Effluent Treatment Plant of garrage was not in working condition. violation is raised in this effect.

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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	Monthly returns should be submitted by 10th of every month for preceeding month and by 30th June of every year Annual return should be submitted for preceeding finanacial year.	Monthly returns submitted till May19 and Annual return for 2017-18 submitted in time and 2018-19 was yet to be submitted at the time of inspection and report preparation.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mr. R.R.Prasad- Mining Engineer, Mr. J.B.Thapa- Geologist, T.Choudhary- Mines Manager	Mr. Vijay Pandole has been appointed as Geologist against compliance of last violation.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under O/C Working- 110.190Ha, Waste dump- 29.850Ha, Plant etc-7.970 Ha, Plantation- 43.620Ha.	well within limit of financial assurance submitted.
9d	Scrutiny of Annual return on afforestation	6250nos with in lease area and 3453 nos. outside lease area.	This information is for year 2017-18.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	897735tonnes <34% CaO	this is for year 2017-18 as return for year 2018-19 is yet to be submitted.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1769150 tonnes cement grade 1st despatched to cement plant.	for 2017-18.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	215.62Rs/T	Cost of Production- 215.62 Rs/Ton Ex Mine Price- 215.62 Rs/Ton Sale Value- Not Applicable as Captive Consumption

9h	Scrutiny of Annual return on fixed assets	Net closing assett at the end of year was Rs465331444/-	
9k	Scrutiny of Annual return on mining machineries	Drill-3 , Dozer-3, Shovel 4 Cum-3, Shovel 5 Cum-1,Dumper35 Tonner-8, Dumper 55 Tonner-6, Explosive van-2, Backhoe-1, Water Tanker-2, Loader 5Cum-1	all the machines are common for all the three leases.

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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)	27/06/2019	MCDR17	Rule 11(1)	27/06/2019
MCDR17	Rule 41(1)	27/06/2019	MCDR17	Rule 41(1)	27/06/2019

**Date :**

(CHANDRESH BOHRA)

Indian Bureau of Mines