

**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 Harendra dayal-Agent, Vinjay pandole- Geologist
Official with
Designation
- (iv) Date of Inspection : 13-Jan-23
- (v) Prev.inspection date : 26-May-22

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-Jul-01
- (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-Dec-50
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-Mar-05
		Renewal under rule 24 MCR1960	18-Aug-05
		Mining Scheme rule 12 MCDR1988	05-Jul-06
		Mining Scheme rule 12 MCDR1988	12-Aug-11
		FMCP under 23C(1)	31-Jul-13
		MP modif under MCR 1960	02-Sep-16
		MP review under 17(1) MCR 2016	18-Dec-20

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	Whole potentially mineralized area is explored upto G1 level	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20		as on 31.03.2022 111-61.30 Mio tons, 211-65.20 Mio tons	
1f	General remarks of inspecting officers on geology, exploration etc			Lease area has been explored by drilling 560 boreholes at grid spacing of 100X 200 and depth continuity vertically has been established upto 178 MRL.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North Block - N2185000- N2185250 E309150-309450 & South Block- N2180200- 2181100 E 310400-311200	North Block -No development, South block work done at proposed location	Violation already raised in last inspection by RMG this year only date 7.06.2022 and lessee has intimated to modify the proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate benches in top soil, OB and mineral proposed.	Seperate benches available	

2c	Stripping ratio or ore to OB ratio	1:0.84	1:0.12	Violation already raised in last inspection by RMG this year only date 7.06.2022 and lessee has intimated to modify the proposal
2d	Quantity of topsoil generation in m3	70,000 m3	747 m3	Top soil generation is less as no development done in north block. Violation already raised in last inspection by RMG this year only date 7.06.2022 and lessee has intimated to modify the proposal
2e	Quantity of overburden generation in m3	380000 m3	84236 m3	OB generation is less as no development done in north block. Violation already raised in last inspection by RMG this year only date 7.06.2022 and lessee has intimated to modify the proposal
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development is less as no development done in north block. Violation already raised in last inspection by RMG this year only date 7.06.2022 and lessee has intimated to modify the proposal

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two (North Block and South Block)	One South Block	

3b	Quantity of ROM mineral production proposed	2 Million Tons	1.8 Million 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.	No such proposal	Nil
3f	Quantity of sub grade mineral generation.	0.64 Million Tons	0.34 Million Tons
3g	Grade of sub grade mineral generation	34-42 % caO	34-42 % caO
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized size reduction only	Mechanized size reduction only
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	Conventional Drilling & Blasting with NOnel initiation	Conventional Drilling & Blasting with NOnel initiation
3k	Provision of mining machineris in mineral benches	Shovel Dumper Combination with deep hole drilling and dozer operation	Shovel Dumper Combination with deep hole drilling and dozer operation
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8 Metre	8 Metre

3m	Total area covered under excavation/pits	158.26 ha at the end of proposal period i.e. 31, .03.2026	134.05 ha upto 31.03.2022	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.84	1:0.12	
3o	Total area put in use under different heads at the end of year	upto end of 31.03.2026 proposal period Mining- 158.29 ha, Mineral Storage- 2.0 ha, Roads-7 ha, Infrastructure - 5.26 ha, waste dump- 37.40 ha, soil dump- 13.69 ha	Area put to use as on 31.03.2022 Mining- 134.05 ha, Mineral storage-2.0 ha, Roads- 5.63 ha, Infrastructure- 5.26 ha, waste dump- 22.10 ha, top soil- 9.13 ha	Area is well with in proposal
3p	Production of ROM mineral during the last five year period as applicable	2021-22- 2 million tons 2020-21-2 million tons 2019-20- 2 million tons 2018-19- 2 million tons 2017-18- 2 million tons	2021-22- 1.80 million tons 2020-21-1.68 million tons 2019-20- 1.76 million tons 2018-19-1.87 million tons 2017-18- 1.77 million tons	
3q	General remarks of inspecting officers on method of mining etc.			Excavation quantity is done within proposal limit with good benching formation and deep hole drilling and blasting.

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	Seperate dumping of top soil, OB and sub grade done	

4b	Location of topsoil, OB and mineral reject dumps	Top soi North Block : N2184890-2185000, E 309850-310000, South Block EN 2180050-2180150, E 310000-310080, OB dump: North Block E309700-309900 N2185100-2185220, Top soi North Block : N2184890-2185000, E 309850-310000,, SG dump North Block E310030-310230 N2184800-2184800 South Block E311150-311290 N218490-218520	Top soi North Block : N2184890-2185000, E 309850-310000, OB dump south block : Top soi North Block : N2184890-2185000, E 309850-310000, SG DumpSouth Block E311150-311290 N218490-218520
4c	Number of dumps within lease area and outside of lease area	11	11
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side UPL	outside UPL
4e	Number of active and alive dumps.	5 dumps	5 dumps
4f	Number of dead dumps.	5	5
4g	Number of dumps established.	1	1
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed reatiningwall and garland drain along dumps	Constructed garland drain and retaining wall
4i	Length of Retaining wall or garland drain all along dumps	150 m	150 m
4j	Number of settling ponds	Nil	Nil

4k	Specific comments of inspecting officer on waste dump management			Waste dumping is less as less OB generated but done within proposed area. Plantation is being done on old waste dumps
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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.	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	For plantation	
5d	Total area fully reclaimed and rehabilitated	No such proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling is not proposed as mineral is being continued in depth and area is not matured for backfilling.

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).	PMCP report should be submitted by 1st of July of every year.	Report submitted in time.	
6b	Area available for rehabilitation (ha) .	Nil	Nil	

6c	afforestation done (ha).	1.5 ha	1.5 ha
6d	No. of saplings planted during the year	3000	3000
6e	Cumulative no .of plants	NA	aarox more tha 1 lakh
6f	Any other method of rehabilitation	No such proposal	Nil
6g	Cost incurred on watch and care during the year	No such proposal	Approx 10 Lkah annually
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	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	3000 saplings planted	3000 saplings planted
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal	Nil

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 in core and buffer zone	quarterly monitoring done and all parametres are within limit	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP proposals are implemented and plantation done in waste land available in lease.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM despatch to ceement plant	ROM despatch to ceement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical for size reduction	Mechanical for size reduction	
7c	Different grade of mineral sorted out at mines.	Cement grade	Cement grade	
7d	Any beneficiation process at mines .	No such proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			All kind of limestone blended at face with the help of quarry master software and despatched to plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Sepertaate stacking of top soil and utilization for plantation	As per proposal
8b	Concurrent use or storage of topsoil	Storage & utilization for plantation	Top soil stacked seperately & used for plantation purpose
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumps for top soil and waste	as per proposal
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)	No such proposal	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3000 saplings planted	3000 saplings planted
8g	Survival rate	NA	85%
8h	Water sprinkling on roads to control airborne dust	Water spraying through water tanker	Water spraying through water tanker
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Environmental protection measures are taken by the lessee along with plantation at dump and waste land. Further at crusher area it needs more strengthening of dust suppression system.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly return must be submitted before 10th of every month and Annual Return must be submitted by 1st july of every year.	Monthly retrun of Dec 2022 has been submitted and Annual return for 2021-22 has ben submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Madhav Kundu, Geologist- Vijay Pandole, Manager- Pravin Khkhale	Information is correct	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/c working- 134.05 ha, Waste desposal- 25.90 ha, Infrastructure -10.90 ha,	Information appears to be correct	
9d	Scrutiny of Annual return on afforestation	3000 saplings with 85 % survival	Information appears to be in order.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Information is in order	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Information apperars to be in order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value, EMP & Cost of production- 217.26 Rs/T	All the ROM is despatched to captive plant so sale value and cost of production is same.	
9h	Scrutiny of Annual return on fixed assets	Rs 366024904	Financial aspects may not be commented upon.	
9k	Scrutiny of Annual return on mining machineries	Rocjk Drill 115mm- 03 Nos., Dozer- 2 Nos., Shovel- 1 No., Dumper 55 Tons-09 Nos., Wheel Loader-01 No., Backhoe- 2 No.	A combined fleet for all three leases are maintained. It appears to be in order.	

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