

**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 : **B014**) **CHANDRESH BOHRA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Vijay Pandole Geologist, Shri T.Choudhary Mine M
Official with
Designation
- (iv) Date of Inspection : 06-Dec-21
- (v) Prev.inspection date : 10-Feb-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	The entire lease area has been placed under G1 category of exploration
1b	Exploration over lease area for geological axis 1 or 2	Nil No exploration was proposed	Nil	The entire lease area has been placed under G1 category of exploration
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	The entire lease area has been placed under G1 category of exploration
1e	Balance reserve as on 01/04/20		111 = 74.07 Million Tone 211 = 61.94 Million Tone As on 1.04.2021	
1f	General remarks of inspecting officers on geology, exploration etc			The entire lease area has been explored upto G1 level so further exploration is not required.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 2179300-2179900 E 310400 - 311000	Work done within proposed area	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	seperate benches proposed. as top soil is hardly 1-2 metre it is dozed and scrapped. Waste and mineral coexist in same level so distinguished clearly in seperate benches	work done as proposed
2c	Stripping ratio or ore to OB ratio	1:0.22	1:0.02
2d	Quantity of topsoil generation in m3	40,000 m3/ 0.04 MT	Nil
2e	Quantity of overburden generation in m3	Waste 0.18 MT	Waste 27321 T
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development was done less than the proposed as sub grade mineral was blended and used in the production.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	+ 234 mRL N 2179300-2179900 E 310400 - 311000 RL- 242-234 N 2180500-2180800 E 310500-310700	+ 234 mRL N 2179100- 2179900 E 310400 - 311050	Inaccessible due to Continuous seepage & accumulation of water.
3b	Quantity of ROM mineral production proposed	1.50 Million Tons	1.45 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	Not applicable
3f	Quantity of sub grade mineral generation.	0.088 Million Tons	0.052 Million Tons
3g	Grade of sub grade mineral generation	34 to 42 (Cao %)	34 to 42 (Cao %)
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized seperation with grade while mining itself	Mechanized seperation with grade while mining itself
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	down the hole drill machine of 150mm size drill bit are deployed for Drilling the blast holes. Rock breakers are also being used for breaking oversized boulders .Explosives used are Aquadyne, Energel, Kelvex -600, Kelvex-Extra (trade name).	down the hole drill machine of 150mm size drill bit are deployed for Drilling the blast holes. Rock breakers are also being used for breaking oversized boulders .Explosives used are Aquadyne,
3k	Provision of mining machinerries in mineral benches	Dozer , drill and shovel dumper combination	Dozer , drill and shovel dumper combination

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8 m	Achieved as per proposal 8 Mtr. Bench height is 8.0 m and is commensuration with maximum digging height of shovel	
3m	Total area covered under excavation/pits	As per the approved mining plan for the period 2019-20 to 2023-24, area under excavation/pits as on 01.04.2019 was 82.64 ha , additional requirement during the five year proposal period was 14.53 ha . Net area under excavation/pits as per proposal made will be 97.17 ha .	Year 2019-20 to 2020-21 , area covered Under total excavation/pits are 93.12 ha. During 2020-21, 2.43 ha. area has been utilized in excavation during the year.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.22	1:0.02	
3o	Total area put in use under different heads at the end of year		Mining: 93.12 ha, Roads: 10.18 ha, Infrastructure 0.14 ha, OB/ Waste Dump: 9.99 ha, sub-grade dump 5.06 ha, T, Other (Plantation): 36.00 ha, Total Area put to use: 161.09 ha	
3p	Production of ROM mineral during the last five year period as applicable	2019-20- 1.5 MT 2018-19- 1.5 MT 2017-18-1.5 MT 2016-17-1.5 MT 2015-16-1.5 MT	2019-20- 1.43 MT 2018-19- 1.50 MT 2017-18 - 1.49 MT 2016-17 - 1.23 MT 2015-16 - 1.21 MT	Production was achieved as per proposal

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, sub grade and OB proposed.	seperate dumping of top soil, sub grade and OB done	
4b	Location of topsoil, OB and mineral reject dumps	Top soil E310000 - 311300 N2178750-2179900 Waste dump E 310400-310650 N2178950-2179400 Sub-grade N 2178900-2179100 E 311900-312100	Top soil Not generated during the year Waste dump E 310400- 310375 N2179100- 2179400	
4c	Number of dumps within lease area and outside of lease area	06 within lease area	06 within lease area	Top soil =3 Waste Dump=2 Sub-grade=1
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within lease area, towards North & North-East side of the lease	Within lease area, towards North & North-East side of the lease	
4e	Number of active and alive dumps.	04	04	TS=01 SG=01 Waste=02
4f	Number of dead dumps.	02	02	Top soil (2) Inactive dump , will be utilized near future
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Around the periphery of dump area	Around the periphery of dump area	
4i	Length of Retaining wall or garland drain all along dumps	Around the periphery of dump area.	Already made , L=5294 m.	
4j	Number of settling ponds	Not in proposal	Already made earlier in south of the lease area & only being maintain in time to time.	

4k	Specific comments of inspecting officer on waste dump management			Dumping of waste is being done by systematically at proposed location and suitable measures are also being taken for preparation of retaining wall and garland drain.
----	--	--	--	---

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	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No area matured and proposed for backfilling and no backfilling was also carried out.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

7a	ROM Mineral dispatch or grade-wise sorting within lease area	direct dispatch to cement plant	direct dispatch to cement plant
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	no such proposal	Nil
7c	Different grade of mineral sorted out at mines.	Cement grade and sub grade	cement grade and sub grade
7d	Any beneficiation process at mines .	No such proposal	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		All the grade or CaO above 34% is utilized with blending while loading with the use of quarry master software.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate stack of top soil dump & utilized for plantation	Top soil has been stack separately as per proposal & used for plantation	
8b	Concurrent use or storage of topsoil	For plantation	For plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	seperate dumping of OB and sub grade was proposed	work done as proposed	
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	Plantation done on waste revenue land
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000 plantation proposed for the year	2250 saplings planted during the year	
8g	Survival rate	not in proposal	75%	
8h	Water sprinkling on roads to control airborne dust	Through water tanker	12 KL Water tanker Deployed, along haul road fixed water sprinkler placed.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Good plntation work done along the boundary of lease and revenue land which increase the aesthetic beauty of mine alongwth water spray on done on haul road and muck pile of blasted stone.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	monthly return should be submitted by 10th of each month for preceding year and Annual return must be submitted by 1st of July of every year for preceding financial year.	Monthly return submitted upto Dec 2021 and anuual return for the year 2020-21 submitted.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- W.G.tapase, Manager- Shri Tripurary choudhary, Geologist- J.B.Thapa	Correct information furnished
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	area under pit- 93.12 ha, waste dsiposal- 15.050 ha, infrastructure - 10.32 ha,plantation- 36 ha	it seems correct
9d	Scrutiny of Annual return on afforestation	2250	correct information furnished
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	nil stock	no stock found
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine price and cost of production- 223.52 Rs/T	
9h	Scrutiny of Annual return on fixed assets	395644540 rupees	
9k	Scrutiny of Annual return on mining machineries	Drill-1, Dozer- 2, Shovel- 5, Dumper-15, Exp van-2, Water tanker (12 KL) - 01, Backhoe- 01, Loader-03	

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