

**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 : 38MSH08024

- (i) Name of the Inspecting : **204**) **SNEHANKIT H. CHATTE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri. H. Dayal, GM(M)
Official with
Designation
- (iv) Date of Inspection : 11-Nov-22
- (v) Prev.inspection date : 27-May-22

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-Jan-16
- (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-May-56
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 :

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| 6. Date of approval of Mining | : | Fresh under rule 22 MCR1960 | 15-Oct-03 |
| Plan/Scheme of Mining | | Mining Scheme rule 12 MCDR1988 | 12-Aug-11 |
| | | 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 | NIL |
| 1b | Exploration over lease area for geological axis 1 or 2 | No exploration proposal | nil | Entire lease area has already been explored upto G1 level. |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | NOT APPLICABLE | NIL | Entire lease area has already been explored upto G1 level. |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | NIL | NIL | Entire lease area has already been explored upto G1 level. |
| 1e | Balance reserve as on 01/04/20 | Reserves as on 1/4/2022 =: 7.32 million tonnes (111). | As proposed | nil |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | General strike of limestone deposit is NNW-SSE with varying dip almost flat to 30 degrees due east. Entire lease area of 49.0 ha area is mineralised and has already been explored upto G1 level |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|---|--|---|
| 2a | Location of development w.r.t.lease area | N 2179400- N2179600 and E 311350 - E311650 N 2179800- N2180200 and E 311250 - E311500 | N 2179800- N2180200 and E E 311250 - E311500 | Captive mine. Production is as per plant's requirement. Development is also lagging against approved proposal |

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| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Development of separate benches in Top Soil, Overburden and minerals proposed | Development of separate benches in Top Soil, Overburden and minerals is maintained | nil |
| 2c | Stripping ratio or ore to OB ratio | 1:0.55 | 1:0.02 | Development is lagging against proposal, violation for the same was issued on 24.11.2022 |
| 2d | Quantity of topsoil generation in m3 | 10,000 m3 | nil | nil |
| 2e | Quantity of overburden generation in m3 | 70000m3 | 3782 T | Development is lagging against proposal |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | | Development is lagging against proposal, violation for the same was issued on 24.11.2022 |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-----------|-------------|--|
| 3a | Number of pit proposed for production | ONE PIT | ONE PIT | NIL |
| 3b | Quantity of ROM mineral production proposed | 500000 T | 250800 T | VIOLATION FOR DEVAITION FROM APPROVED MINING PLAN WAS ISSUED ON 24.11.2022 |
| 3c | Recovery of sailable/usable mineral from ROM production | 100% | 100% | CAPTIVE MINE |
| 3d | Quantity of mineral reject generation | NIL | NIL | NIL |

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| 3e | Grade of mineral rejects generation and threshold value declared. | NA | NA | NA |
| 3f | Quantity of sub grade mineral generation. | 40000 T | GENERATED USED FOR BLENDING | USED FOR BLENDING |
| 3g | Grade of sub grade mineral generation | CaO 35.68% | CaO 35.68% | 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. | Nil | NIL | NIL |
| 3j | Provision of drilling and blasting in mineral benches | Exploitation by conventional method of drilling and blasting by deploying 115mm dia drill machines. | as proposed | nil |
| 3k | Provision of mining machineries in mineral benches | Fully mechanised mining 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 | Bench height in OB and mineral will not be more than 8 Mtr | Maintained as per proposal | |

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| 3m | Total area covered under excavation/pits | 34.08 ha. upto 30.55 ha area the end of proposal period ie. 31/03.2026. | nil |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.55 1:0.02 | Development is less as compared with proposal, violation for the production deviation was issued on 24.11.2022 |
| 3o | Total area put in use under different heads at the end of year | at the end of plan period i.e. 31.03.2026 are : Under mining: 34.08 ha, OB dump : 3.52 & Road: 1.53 ha. | Area under Mining: 30.55 ha , Area under Waste Dump: 2.03 ha and area under road:1.14 ha. |
| 3p | Production of ROM mineral during the last five year period as applicable | 2021-22- 0.50 MT 2020-21- 0.50 MT 2019-20- 0.50 MT 2018-19- 0.50 MT 2017-18- 0.50 MT | 2021-22- 0.25 MT 2020-21- 0.25 MT 2019-20- 0.35 MT 2018-19 -0.35 MT 2017-18- 0.36 MT 24Actual production is less than proposal, violation for the same was issued on 24.11.2022 |

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| 3q | General remarks of inspecting officers on method of mining etc. | All the mining operations are through mechanised means and bench height of 8 m are being maintained. Development is lagging due to limestone of this lease is used for blending with the limestone produced from other mines of Maratha Mining having 2 leases and mostly depends on market demand/ captive cement plant requirement. |
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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) | generated top soil will be utilized for plantation purpose and OB will be dumped over existing waste dump | Generation of top soil not reported. Waste dumping as per proposal | nil |
| 4b | Location of topsoil, OB and mineral reject dumps | Concurrent use of top soil for plantation purpose. Propose location for Waste dump is N2179820- N2179900 and E 311050- E311120 | Generation of top soil not reported. Waste dumping as per proposal | nil |
| 4c | Number of dumps within lease area and outside of lease area | one | one | nil |

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|----|--|--|-----------------|--|
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Inside UPL | Inside UPL | nil |
| 4e | Number of active and alive dumps. | one | one | nil |
| 4f | Number of dead dumps. | nil | nil | nil |
| 4g | Number of dumps established. | nil | nil | nil |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | 20 m garland drain will be constructed in the periphery of dump area | as proposed | nil |
| 4i | Length of Retaining wall or garland drain all along dumps | Garland drain= 20 m | as per proposal | nil |
| 4j | Number of settling ponds | Nil | nil | nil |
| 4k | Specific comments of inspecting officer on waste dump management | | | Dumping of waste was found as per proposed location. |

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 proposed | NIL | There is no such mature area for reclamation and rehabilitation. Mineral continued in depth and there is no mature area for backfilling and reclamation. |

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| 5b | Area under backfilling of mined out area | Not proposed | NIL | There is no such mature area for reclamation and rehabilitation. Mineral continued in depth and there is no mature area for backfilling and reclamation. |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | Not proposed | NIL | There is no such mature area for reclamation and rehabilitation. Mineral continued in depth and there is no mature area for backfilling and reclamation. |
| 5d | Total area fully reclaimed and rehabilitated | Not proposed | NIL | There is no such mature area for reclamation and rehabilitation. Mineral continued in depth and there is no mature area for backfilling and reclamation. |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | There is no such mature area for reclamation and rehabilitation. Mineral continued in depth and there is no mature area for backfilling and reclamation. |

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). | Annual Report on PMCP implemented during previous year should be submitted before 1st July every year. | Submitted | nil |
| 6b | Area available for rehabilitation (ha) . | No such proposal | NIL | |
| 6c | afforestation done (ha). | No such proposal | NIL | Entire lease area is mineralised and there is no proposal for afforestation within lease area. |
| 6d | No. of saplings planted during the year | No such proposal | NIL | |
| 6e | Cumulative no .of plants | No such proposal | NIL | |
| 6f | Any other method of rehabilitation | No such proposal | NIL | |
| 6g | Cost incurred on watch and care during the year | No such proposal | NIL | |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D | No such proposal | NIL | |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | No such proposal | NIL | |

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|----|---|--|----------------------------|--|
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area | 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 | Mineral still continued in depth and there is no scope for backfilling and reclamation of such mined out area. |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | No such proposal | NIL | |
| 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) | Environmental monitoring of air water and noise level should be undertaken in core and buffer zone | Monitoring as per proposal | nil |

6q General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|-----------------|---|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Dispatch of ROM after crushing/sizing and blending (if required). | as per proposal | nil |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | No such proposal | NIL | NIL |
| 7c | Different grade of mineral sorted out at mines. | No such proposal | NIL | NIL |
| 7d | Any beneficiation process at mines . | No such proposal | NIL | NIL |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | Entire produced ROM is utilized in the cement plant after blending. |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|------------------------------|--------------------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | seperate removal and Utilizations of top soil for plantation | Nil soil gereration reported | working within pit |

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| 8b | Concurrent use or storage of topsoil | seperate removal and Utilizations of top soil for plantation | Nil soil gerenartion reported | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Waste dumping over the dump situated in western part of the lease area. | Generated waste are being dumped over waste dump situated in western part of the lease area | |
| 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 | Nil |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | No such proposal | Nil | Nil |
| 8g | Survival rate | No such proposal | Nil | Nil |
| 8h | Water sprinkling on roads to control airborne dust | Proposal for sprinkling of water to control airborn dust envisaged | implemented as proposed | nil |

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| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | Entire lease area is mineralised and is under active mining therefore there is no scope for plantation inside lease area. However, to retain aesthetic beauty in and around the lease area plantation are being done in contiguous leases of same lessee. |
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Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|---|---------|
| 9a | Status of submission of Monthly and Annual returns | A monthly return shall be submitted to IBM before the 10th day of every month in respect of the preceeding month. An Annual Return shall be submitted to IBM before the 1st day of July each year for the preceeding year. | Monthly and Annual Returns for the reporting period are being submitted within stipualted time frame. | nil |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Mining Engineer: Shri Sanjay Upare, Geologist: Shri R.Vishwakarma nd, Manager: Shri Pravin Khokale | Mining Engineer, Geologist and Manager are in place | nil |

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| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Area under open cast working: 30.55 ha, WASTE Dumps: 2.03 ha and Infrastructure : 1.14 ha | Details rearding area put to use are more or less in order. | nil |
| 9d | Scrutiny of Annual return on afforestation | NIL plantation | NIL plantation | NIL |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | NIL | NIL | NIL |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | ROM opening and closing stocks NIL. Graded ore opening and closing stocks NIL | Details on stocks is in order. | nil |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Sale Value: Rs. 217.26/tonnes Ex mine Price: NIL Production cost: Rs. 217.26/tonnes | Entire production is being dispatched to captive cement plant | nil |
| 9h | Scrutiny of Annual return on fixed assets | Fixed Assets: Rs. 366024906/- | as proposed | nil |
| 9k | Scrutiny of Annual return on mining machineries | ROCK DRILL : 2 nos; DOZER : 2 no. WHEEL LOADER 1 no; SHOVEL 4 nos; JEEP/TRACTOR 3 no; DUMPER 9 nos; MOTOR GRADER 1 no; CRANE 1 no; EXPLOSIVE VAN 2 WATER TANKER 1 no; BACK HOE 1no | Common fleet of mining macheneries are being deployed in all the three contiguous leases of same lessee. | |

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 |
| MCDR17 | Rule 11(1) | 24-Nov-22 | | | |

Date :

(SNEHANKIT H. CHATTE)

Indian Bureau of Mines