

**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- Mine Manager, Geologist- Shri Vija
Official with
Designation
- (iv) Date of Inspection : 07-Dec-21
- (v) Prev.inspection date : 09-Feb-21

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 :

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| 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 | Nil | Whole lease area has been explored upto G1 level | |
| 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 | | 111 -63.10 MT 122- 65.20 MT | |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | The lease area has been completely explored upto G1 level. |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|--|---|---------|
| 2a | Location of development w.r.t.lease area | North Block (+226) MrL N 308900-309500 E 2185000-2185400 South Block (+218) MrL N 310100-312000 E 2179900-2181200 | North Block (234) MrL N 308900-309500 E 2185000-2185400 RL (223) South Block N 310100- 311100 E 218000- 2181000 | |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | seperate benches in OB and mineral proposed but as it is found at same level as interburden | work done as proposed | |

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| 2c | Stripping ratio or ore to OB ratio | 1:0.62 | 1: 0.27 | Less OB handling due to heavy rainfall and covid 19 pandemic . |
| 2d | Quantity of topsoil generation in m3 | 0.06 MT | 0.0004 MT | Less Top soil due to less development due to rainfall and covid pandemic as per lessee. |
| 2e | Quantity of overburden generation in m3 | Sub-grade 95454 m3/ 0.21 MT | Sub-grade 196167m3/ 0.43 MT (34 to 42 Cao %) | |
| | | Waste 485000 m3/ 0.97 MT | Waste 14379 m3/ 0.03 MT | |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | | |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|--|--|
| 3a | Number of pit proposed for production | North Block (+226) MrL N 308900- 309500 E 2185000- 2185400 (+218) MrL South Block N 310100- 312000 E 2179900- 2181200 | North Block (234) MrL N 308900-309500 E 2185000-2185400 RL (223) South Block N 310100- 311100 E 218000- 2181000 | |
| 3b | Quantity of ROM mineral production proposed | 2.00 Million Ton | 1.68 Million Ton | Production done as per plant requirement |
| 3c | Recovery of sailable/usable mineral from ROM production | 100% | 100% | |
| 3d | Quantity of mineral reject generation | Nil | Nil | |

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| 3e | Grade of mineral rejects generation and threshold value declared. | Not applicable | Nil | |
| 3f | Quantity of sub grade mineral generation. | 0.21 Million Ton | 0.43 Million Ton | due to contamination more sub grade generated. |
| 3g | Grade of sub grade mineral generation | 34 to 42 Cao % | 34 to 42 Cao % | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | No such proposal | Nil | |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | No such proposal | Not applicable | |
| 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 for blasting | work done as per proposal | |
| 3k | Provision of mining machineries in mineral benches | Fully mechanized machineries like drill, dozer , shovel dumper combination | work done as per proposal | |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | 8metre | 8 metre height of bench is commensurate with maximum digging height of shovel | |

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| 3m | Total area covered under excavation/pits | As per approved plan total area under excvaton upto 2024-25 is 175.50 ha | at present 133.05 ha under excavation |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.62 | 1: 0.27 |
| 3o | Total area put in use under different heads at the end of year | | Area under: Mining: 133.05 ha, Mineral Storage: 2.0 ha Roads: 5.63 ha Infrastructure: 5.26 ha, OB/ Waste Dump: 21.16 ha, Sub-grade 3.81, Top Soil Stacking: 8.61 ha Plantation: 50.76 ha Total: 230.28 ha. |
| 3p | Production of ROM mineral during the last five year period as applicable | 2019-20 -2.00 MT 2018-19- 2.00 MT 2017-18-2.00 MT 2016-17- 2.00 MT 2015-16-2.00 MT | 2019-20- 1.76 MT 2018-19- 1.87 MT 2017-18-1.769 MT 2016-17- 1.619 MT 2015-16-1.469 MT |
| 3q | General remarks of inspecting officers on method of mining etc. | | Exploitation of mineral is being carried out very systmatically and scientifically and work done within proposal limit. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|--|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Separate stack ing of top soil dump & waste proposed | seperate stacking of waste and top soil done | |

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| 4b | Location of topsoil, OB and mineral reject dumps | Top soil N 2184800-2185130 E 309860-309975 OB Dump E 311400-312100 N 2180800-2181300 SG -Dump E 311200-311700 N 2181300-2181500 | Top soil N 2184800- 2185130 E 309860- 309975 OB Dump E 311400- 312050 N 2181000- 2181300 SG -Dump E 311200- 311600 N 2181300- 2181500 | |
| 4c | Number of dumps within lease area and outside of lease area | 11 within lease area | 11 within lease area | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | outside UPL | outside UPL | |
| 4e | Number of active and alive dumps. | 05 | 05 | OB=1 Dump, SG=1 Dump, TS=02, Mineral storage=01 |
| 4f | Number of dead dumps. | 05 | 05 | OB=4 Dump , TS=1 Dump |
| 4g | Number of dumps established. | 01 | 01 | 1 Top soil |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Around the periphery of dump area. | Made around the periphery of dump & along the haul road of North block. | Already made earlier & only being maintained from time to time |
| 4i | Length of Retaining wall or garland drain all along dumps | Around the periphery of dump area. | Already made earlier around the periphery of dump area & only being maintain in time to time. GD Total 4544 m , RW Total 40 m | |
| 4j | Number of settling ponds | Nil | 407 m2 made towards North -east of the lease area. | Deeper part of the pits are converted into water reservoir during rainy season within lease area. |

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| 4k | Specific comments of inspecting officer on waste dump management | | | Waste dump management is being done as per proposed in approved mining plan. |
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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) | No such proposal | Nil | |
| 5d | Total area fully reclaimed and rehabilitated | No such proposal | Nil | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | No area matured for backfilling so backfilling was neither proposed nor done. |

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). | Annual PMCP report must be submitted before 1st of July of every year | Yes PMCP report submitted | |
| 6b | Area available for rehabilitation (ha) . | Nil | Nil | |
| 6c | afforestation done (ha). | 2 ha | 2.14 ha | |

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|----|--|------------------|----------------|
| 6d | No. of saplings planted during the year | 5000 No. | 6550 No. |
| 6e | Cumulative no .of plants | No such proposal | 115000 nos. |
| 6f | Any other method of rehabilitation | Nil | Nil |
| 6g | Cost incurred on watch and care during the year | No such proposal | 10 Lakh approx |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx 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 |
| 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 |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation | 5000 nos. | 6550 nos |

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| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | 2 ha | 2.14 ha | |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | Plantation | plantation | |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Yes, environment monitoring is proposed for core zone and buffer zone | Six monthly monitoring carried out | |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | | Plantation on waste land carried out as proposed and environment monitoring done and all the parametres are well within limit. |

Mineral Conservation:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|---|---|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | directly despatch to plant | directly despatch to plant | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | No such proposal | different grade of material is blended in crusher feeding with monitoring of dumper feeding of particular grade | |
| 7c | Different grade of mineral sorted out at mines. | Cement grade and subgrade (34-42 % CaO) | Cement grade and subgrade (34-42 % CaO) | |
| 7d | Any beneficiation process at mines . | No such proposal | Nil | |

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| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | Different grade of blast muck pile is blended at face while loading in dumpers and max material is utilized and despatched to plant as cement grade. |
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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 dump for sub grade and OB proposed | seperate dumping of OB and sub grade done | |
| 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) | Nil | Nil | |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | within lease area on waste land along the boundary | plantation done on waste land | |
| 8g | Survival rate | Not proposed | 75% | |

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| 8h | Water sprinkling on roads to control airborne dust | water sprinkling with water tanker proposed | water spray done with 12 KL water tanker | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | | Dumping of waste and sub grade are done seperately and plantation done along the boundary on revenue waste land. |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|---|---------|
| 9a | Status of submission of Monthly and Annual returns | Monthly return must be submitted before 10th of every month for preceding month and Annual Return shall be 1st July for the preceding finanacial year. | Annual Return for the year 2020-21 has been submitted and monthly return upto December 2021 has been submitted. | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Shri Madhav Kundu- Mining Engineer, Mine Manager- Tripurary Chaudhary , Geologist- Vijay Pandole | Information furnished are correct | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | area covered under mining- 142.04 ha, waste desposal- 24.97 ha, infrastructure - 10.89 ha, plantation- 50.76 ha | correct information furnished | |
| 9d | Scrutiny of Annual return on afforestation | 6550 | information furnished are correct | |

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| 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 | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Ex Mine Price- 223.52 Rs/T and Cost of Production - 223.52 Rs/T No sale value | |
| 9h | Scrutiny of Annual return on fixed assets | Rupees 395644540 | |
| 9k | Scrutiny of Annual return on mining machineries | Drill-03, Dozer-03, Shovel-05, Dumpers-15, Backhoe-01, Loaders-03, Explosive Van-02, Water tanker-01 (12 KL) | all the machines were available |

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