

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/NGR-38RAJ2009

Mine code : 38RAJ20009

- (i) Name of the Inspecting : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Lokesh Shrimali, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 05-OCT-21
- (v) Prev.inspection date : 23-DEC-16

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MARWAR MUNDWA ML-II**
- (b) **Registration NO.** : **IBM/447/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **RAJASTHAN**
- District : **NAGAUR**
- Village : **KHERWAD RUPASAR**
- Taluka : **MUNDWA JAYAL**
- Post office : **MUNDWA**
- Pin Code : **341026**
- FAX No. : **9437107204**
- E-mail : **hamendrasingh.rathore@ambu**
- Phone : **9437107204**
- (f) **Police Station** : **Mundwa**
- (g) **First opening date** : **05-MAY-07**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **M/S Ambuja Cements Ltd.**
P.O. Mundwa, Tehsil Mundwa,
District Nagaur
3. (a) **Lease Number** : **RAJ5232**
- (b) **Lease area** : **635**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **20-SEP-38**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : AMBUJA CEMENT
 VILL- RABRIYAWAS PO.-
 JAITARAN DIST- PALI PALI
 RAJASTHAN
 Phone:02939-3011, 3012
 FAX :3717879, 01462-20917

Owner : Neeraj Akhoury
 Elegant Business Park,MIDC
 Cross Road Boff Andheri
 Kurla Road Mumbai Andheri
 East,Maharashtra-400059
 MUMBAI (SUBURBAN)
 MAHARASHTRA
 Phone:
 FAX :

Agent : Hamendra Singh Rathore
 Post-Mundwa Tehasil-Mundwa
 District: Nagaur
 (Rajasthan) NAGOUR
 RAJASTHAN
 Phone: 7625060320
 FAX : 7625060320

Mining Engineer

Name : Vinod chaudhry,Full Time
 Qualification : B. E. (Mining Engg)
 Appointment/ : 18-SEP-21
 Termination date

Geologist

Name : Partha Sarathi Maji,Full Time
 Qualification : M.Sc (Geology)
 Appointment/ : 01-SEP-21
 Termination date

Manager

Name : Lokesh Shrimali
 Qualification : BE Mining
 Appointment/ : 12-AUG-21
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 26-SEP-16
 MP review under 17(1) MCR 2016 29-NOV-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|--|--|
| 1a | Backlog of previous year | No specific proposal during the previous year 2019-20. | No exploration has been carried out during the previous year. | However the exploration drilling proposed during the year 2016-17 (6 Bore Holes, 335m), 2017-18 (11 Bore Holes, 605m) and 2018-19 (14 Bore Holes, 620m) has not been carried out till inspection date, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.10.2021. |
| 1b | Exploration over lease area for geological axis 1 or 2 | No proposal of exploration during the year 2020-21. | No exploration work has been carried out during the year 2020-21. | Nil |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | No such proposal given during the year 2020-21. | Not applicable. | Nil |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | The area under G1- 202.5 hect. & G2- 432.5 hect. The proposal has been given to exploration drilling to convert G2 level into G1 level by way of 31 bore holes during the year 2016-17 to 2018-19 | No exploration drilling has been carried out as per proposal during the year 2016-17, 2017-18 & 2018-19. | (1) For not carried out drilling as per proposal during the year 2016-17 to 2018-19, violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.10.2021. (2) Current inspection has been carried out for Review of Mining Plan, hence lessee is being advised to submit detailed exploration proposal in review of mining plan through scrutiny comments as per norms of MEMC Rules 2015. |

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| 1e | Balance reserve as on 01/04/20 | As per approved mining plan(approved on 29.11.2016) 111: 49.29 million tonnes. | Balance reserves as on 01.04.2021 111: 49.29 million tonnes. | During the year 2020-21 production only 2581.33 tonnes only. |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | (1) For not carried out drilling as per proposal during the year 2016-17 to 2018-19, violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.10.2021. (2) Current inspection has been carried out for Review of Mining Plan, hence lessee is being advised to submit detailed exploration proposal in review of mining plan through scrutiny comments as per norms of MEMC Rules 2015. |

Development :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|--|--|
| 2a | Location of development w.r.t.lease area | During the year 2020-21, mine development was proposed between local grid N1150-1350 & E1100-1500 | Mine development has been carried out between local grid N933-1070 & E1105-1140 during the year 2020-21. | During the year 2020-21, Mine pit has not been developed on proposed location, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.10.2021. |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | No benches proposed in topsoil & Overburden, Only mineral benches was proposed. | One mineral bench is developed | Nil |

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| 2c | Stripping ratio or ore to OB ratio | 1:0.06 | 1:0 | No OB/IB generated during the year 2020-21. |
| 2d | Quantity of topsoil generation in m3 | No proposal | No generation | Nil |
| 2e | Quantity of overburden generation in m3 | 12000 cum of IB generation | Not generated. | Development has been carried out on small scale. |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | | During the year 2020-21, Mine pit has not been developed on proposed location, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.10.2021. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---------------------------------|----------------------------|---------|
| 3a | Number of pit proposed for production | 2020-21: One Pit | 2020-21: One Pit | Nil |
| 3b | Quantity of ROM mineral production proposed | 2020-21: 0.50 million tonnes | 2020-21: 2581.33 tonnes | Nil |
| 3c | Recovery of sailable/usable mineral from ROM production | 100% | 100% | Nil |
| 3d | Quantity of mineral reject generation | No proposal | Not generated | Nil |
| 3e | Grade of mineral rejects generation and threshold value declared. | No proposal | Not applicable | Nil |
| 3f | Quantity of sub grade mineral generation. | No proposal | Not generated | Nil |
| 3g | Grade of sub grade mineral generation | No proposal | Not applicable | Nil |

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| 3h | Manual / Mechanised method adopted for segregating from ROM | No proposal | Not applicable | Nil |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | No proposal | None | Nil |
| 3j | Provision of drilling and blasting in mineral benches | Drilling & blasting proposed in mineral benches | As per proposal | Nil |
| 3k | Provision of mining machineries in mineral benches | Excavation & transportation proposed by shovel and dumper | Machineries deployed as per proposal | Nil |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Bench height proposed not more than 8 meter | As per proposal | Nil |
| 3m | Total area covered under excavation/pits | Up to year 2021-22 total 5.12 ha proposed under mining pit. | Up to year 2020-21 total 0.66 ha area covered under excavation of mining pit. | Nil |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.06 | 1:0 | No OB/IB generated during the year 2020-21. |
| 3o | Total area put in use under different heads at the end of year | 12.42 hect. up to year 2021- 22. | 6.14 hect. area used up to end of year 2020-21. | Nil |
| 3p | Production of ROM mineral during the last five year period as applicable | 2016-17- No proposal 2017-18- No proposal 2018-19-No proposal 2019-20-0.08 million tonnes, 2020-21- 0.50 million tonnes, | 2016-17- Nil 2017-18- Nil 2018-19- Nil 2019-20- Nil 2020-21- 2581.33 tonnes | Nil |

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| 3q | General remarks of inspecting officers on method of mining etc. | Opencast mechnised mining method proposed. | Opencast mechnised mining method adopted as per proposal which is best suited to the type of deposit. | Nil |
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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) | No proposal of mineral reject dumping, only top soil dumping & OB/IB waste dumping proposal given. | No top soil & OB/IB dumping observed. | Nil |
| 4b | Location of topsoil, OB and mineral reject dumps | No Mineral reject dumping proposal. OB/IB dumping proposal given between section lines N14 to N15 & E16 to E17 Soil Dumping proposed between section lines N13 to N14 & E16 to E17 | No top soil, mineral reject & OB/IB dumping was observed. | Nil |
| 4c | Number of dumps within lease area and outside of lease area | Two dumps proposed (One OB/IB dump & One Soil Dump) | Nil | Nil |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Outside of UPL | No dumps observed. | Nil |
| 4e | Number of active and alive dumps. | Two | Nil | Nil |
| 4f | Number of dead dumps. | No proposal | None | Nil |
| 4g | Number of dumps established. | No proposal | Not applicable | Nil |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | No such proposal given during the year 2020-21. | None | Nil |

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| 4i | Length of Retaining wall or garland drain all along dumps | No dumps observed | Not applicable | Nil |
| 4j | Number of settling ponds | No proposal | Nil | Nil |
| 4k | Specific comments of inspecting officer on waste dump management | | | No waste dump observed in the lease area as mine development started at small scale only. |

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 proposal | Nil | Nil |
| 5b | Area under backfilling of mined out area | No proposal duiring the year 2020-21. | Nil | Nil |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | Proposal given to use in plantation. | No top soil generated during the year. | Nil |
| 5d | Total area fully reclaimed and rehabilitated | No proposal of fully reclaimed & rehabilitation during the year 2020-21. | None duiring the year. | Nil |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | No proposal of backfilling & reclamation during the year. Mine development started recently. |

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 PMCP report shall be submitted up to 1st July in respect of previous financial year. | PMCP report for the year 2020-21 submitted on 29.07.2021. | However some discrepancies observed in submitted PMCP report, hence violation of Rule 26(2) of MCDR 2017 issued vide letter dated 11.10.2021. |
| 6b | Area available for rehabilitation (ha) . | 1 hect. (2020-21) | 0.5 hect. (2020-21) | Nil |
| 6c | afforestation done (ha). | 1 hect. (2020-21) | 0.5 hect. (2020-21) | During the year 2020-21 total 1000 sapling was proposed over an area 1.0 hect but only 500 saplings planted over an area of 0.5 hect. Further plantation has also not been carried out on proposed location, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.10.2021. |
| 6d | No. of saplings planted during the year | 1000 nos. (2020-21) | 500 nos. (2020-21) | During the year 2020-21 total 1000 sapling was proposed over an area 1.0 hect but only 500 saplings planted over an area of 0.5 hect. Further plantation has also not been carried out on proposed location, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.10.2021. |
| 6e | Cumulative no .of plants | No specific proposal given about ccumulative no. of plants. | 1500 nos. up to year 2020-21. | Not reported correctly in submitted PMCP report for the year 2020-21, hence violation of Rule 26(2) of MCDR 2017 issued vide letter dated 11.10.2021. |

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| 6f | Any other method of rehabilitation | No proposal | None | Nil |
| 6g | Cost incurred on watch and care during the year | Rs. 2.0 lakh (2020-21) | Rs. 0.79 lakh (2020-21) | Nil |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D | No proposal | None | Nil |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | No proposal during the year 2020-21. | None | Nil |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area | No proposal | Not applicable | Nil |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | No proposal | None | Nil |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means. | No proposal | None | Nil |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation | 1000 nos. during the year 2020-21. | 500 nos. during the year 2020-21. | Nil |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha) | 1 hect. | 0.5 hect. | Nil |

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|----|---|------------------------------------|---|---|
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | Plantation | Plantation | Nil |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Environmental monitoring proposed. | Regular environmental monitoring carried out. | Nil |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | | (1) During the year 2020-21 total 1000 sapling was proposed over an area 1.0 hect but only 500 saplings planted over an area of 0.5 hect. Further plantation has also not been carried out on proposed location, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.10.2021. (2)Some discrepancies observed in submitted PMCP report for the year 2020-21, hence violation of Rule 26(2) of MCDR 2017 issued vide letter dated 11.10.2021. |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|---|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | All ROM mineral dispatched proposed to captive cement plant. | No grade wise sorting, During the year 2020-21 total 146.33 tonnes of limestone disptached to captive cement plant. | Nil |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | No proposal | None | Nil |

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|----|--|-------------|------------------------------------|--|
| 7c | Different grade of mineral sorted out at mines. | No proposal | No grade wise sorting carried out. | Nil |
| 7d | Any beneficiation process at mines | No proposal | None | Nil |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | No issue observed related to mineral conservation during the year. |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|--|---|
| 8a | Separate removal and utilization of topsoil (Rule 32) | During the year 2020-21 no top soil generation proposal given. | No top soil generated during the year 2020-21. | Nil |
| 8b | Concurrent use or storage of topsoil | No generation proposal given | Not applicable | Nil |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Yes proposal of separate dumping of OB/IB given | No OB/IB generated during the year 2020-21. | Mine development is in the beginning stage. |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | No proposal given | None | Nil |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | No proposal | None | Nil |

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| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | During the year 2020-21 total 1000 sapling proposed over an area 1.0 hect. | During the year 2020-21 total 500 sapling planted over an area 0.5 hect. | During the year 2020-21 total 1000 sapling was proposed over an area 1.0 hect but only 500 saplings planted over an area of 0.5 hect. Further plantation has also not been carried out on proposed location, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.10.2021. |
| 8g | Survival rate | Not specified | 85% | As per annual retrun 2020-21. |
| 8h | Water sprinkling on roads to control airborne dust | Water sprinkling on roads to control airborne dust proposed. | Water sprinkling observed. | Nil |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | | The general aesthetic beauty in and around mines area is satisfactory. |

Compliance of Rule 45:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|--------------------|---|
| 9a | Status of submission of Monthly and Annual returns | Monthly return submitted up to Sept 2021 month. Annual return submitted up to year 2020-21. | Timely submission. | Nil |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Mining Engineer: Pankaj Saran Mine Manager : Pankaj Saran Geologist: Mayur Potkatare | found correct. | However recently new mine manager & agent appointed but the intimation in Form H has not been submitted within stipulated time, hence violation of Rule 46 of MCDR issued vide letter dated 11.10.2021. |

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|----|---|--|------------------------------|--|
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Pits: 0.66 ha Plants, building & roads: 4.980 | Some discrepancies observed. | Under item 12 Lease area (surface area) utilisation as at the end of year (hectares) of Part-I, the work done under PMCP during the year has not been shown, hence violation of Rule 45(7) of MCDR 2017 issued vide letter dated 11.10.2021. |
| 9d | Scrutiny of Annual return on afforestation | 500 nos sapling reported. | Seems correct. | Nil |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | No mineral reject reported in annual return | No mineral reject observed. | Nil |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | ROM Stock-Nil Gradewise Stock- 2435 tonnes | Seems to be correct. | Nil |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Ex- mine price: Rs. 409 per tone Cost of production: Rs. 4221.94 per tonne | Discrepancies observed. | Violation of Rule 45(7) of MCDR 2017 issued for discrepancies regarding cost of production & ex-mine price vide letter dated 11.10.2021. |
| 9h | Scrutiny of Annual return on fixed assets | Details given in annual return. | Seems to be correct. | Nil |
| 9k | Scrutiny of Annual return on mining machineries | Detail given in annual return | Seems to be correct. | Nil |

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) | 11-OCT-21 | | | |
| MCDR17 | Rule 26(2) | 11-OCT-21 | | | |
| MCDR17 | Rule 35(2) | 11-OCT-21 | | | |
| MCDR17 | Rule 45(7)(a) | 11-OCT-21 | | | |
| MCDR17 | Rule 46(a) | 11-OCT-21 | | | |

Date :

(D R GURJAR)

Indian Bureau of Mines