

**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 : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Lokesh Shrimali, GM Mines, Shri Partha Sarathi M
Official with
Designation
- (iv) Date of Inspection : 26-APR-22
- (v) Prev.inspection date : 05-OCT-21

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 : NAGAUUR
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 : M/S Ambuja Cements Ltd.
correspondance : P.O. Mundwa, Tehsil Mundwa,
District Nagaur, Rajasthan 341026
3. (a) Lease Number : RAJ5232
- (b) Lease area : 635
- (c) Period of lease : 50
- (d) Date of Expiry : 04-MAY-57
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

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|-------------------------------|---|--------------------------------|-----------|
| 6. Date of approval of Mining | : | MP modif under 17(3) MCR 2016 | 26-SEP-16 |
| Plan/Scheme of Mining | : | MP review under 17(1) MCR 2016 | 29-NOV-16 |
| | : | MP review under 17(1) MCR 2016 | 12-NOV-21 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|---|---|---|
| 1a | Backlog of previous year | No proposal of exploration during previous year 2020-21. | No proposal of exploration during previous year 2020-21. | NIL. |
| 1b | Exploration over lease area for geological axis 1 or 2 | No proposal of exploration during RY 2021-22. | A total of 76 exploratory BHs have been drilled. | Sampling & Analysis is in the progress. |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | No specific proposal on Exploration Agency & Expenditure. | Geotech-Exploration Nagpur & Shree Balaji Enterprises, Kherwad. Expenditure: Rs.59,80,260 | NIL. |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | No specific proposal on area to be explored under G1/G2. | An area of around 430 hectare explored under G1 level. | NIL. |
| 1e | Balance reserve as on 01/04/20 | Reserve: 49.29 Million Tones Resource: 109.58 million tones. (As on 01/09/2021) | Reserve: 49.165 Million Tones Resource: 109.58 million tones. (As on 31/03/2022) | Depletion of 0.125 million tons from Sept-21 to Mar-22. |
| 1f | General remarks of inspecting officers on geology, exploration etc | No proposal of exploration during reporting year (RY) 2021-22. | A total of 76 exploratory BHs have been drilled. | Geologically the lease area is simple and the beds are generally sub-horizontal with gentle rolling dips. |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|---------------------------|-------------------------|---|
| 2a | Location of development w.r.t.lease area | N1150-N1350 E1100-1500 | N800-N950 E1100-1200 | Violation of rule 11(1) of MCDR issued for deviation in working location. |

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|----|---|---|--|---------------------------------|
| 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. |
| 2c | Stripping ratio or ore to OB ratio | 1:0.02 tons/tons | 1:0.0 tons/tons | No OB/IB/waste generation |
| 2d | Quantity of topsoil generation in m3 | No proposal. | No generation. | NIL. |
| 2e | Quantity of overburden generation in m3 | 10000 CuM of IB generation. | No generation. | NIL. |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | Opencast method of development was proposed. | Opencast method of development is in practice. | No issue relate to development. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-------------------------------|-----------------|---------|
| 3a | Number of pit proposed for production | One. | One. | NIL. |
| 3b | Quantity of ROM mineral production proposed | 500000.00 Tons. | 125096.13 Tons. | NIL. |
| 3c | Recovery of sailable/usable mineral from ROM production | 500000.00 Tons. | 125096.13 Tons. | NIL. |
| 3d | Quantity of mineral reject generation | No proposal of MR generation. | Not applicable. | 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 of SG generation. | Not applicable. | 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 of processing within lease area. | ROM is being crushed at crusher located in ML-1. | NIL. |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | No proposal of any beneficiation. | Not applicable. | NIL. |
| 3j | Provision of drilling and blasting in mineral benches | Drilling is proposed through 115 mm diameter drill. | No issue related to drilling and blasting. | NIL. |
| 3k | Provision of mining machineries in mineral benches | Excavation & transportation proposed by shovel and dumper combination. | 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. | Bench height maintained as per proposal. | NIL. |
| 3m | Total area covered under excavation/pits | 5.12 hectare. | 1.47 Hectare. (as informed during mine inspection) | NIL. |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.02 Ton/Ton | Nil. | No OB/Waste generation. |
| 3o | Total area put in use under different heads at the end of year | Total area put in use is 13.42 Ha. | Total area put in use is 7.95 Ha. | NIL. |
| 3p | Production of ROM mineral during the last five year period as applicable | 2017-18:Nil 2018-19:Nil 2019-20:0.08 2020-21:0.50 2021-22:0.50 | 2017-18:Nil 2018-19:Nil 2019-20:Nil 2020-21:0.0025 2021-22:0.125 | Figures in million tones. |
| 3q | General remarks of inspecting officers on method of mining etc. | Opencast method of mining is proposed. | Opencast method of mining is in practice. | Opencast mechanized mining method has been adopted, which is best suited method for the type of the deposit. |

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 for topsoil & mineral reject dumping. Only waste (IB) dumping proposed. | No waste dumping as IB not generated. | NIL. |
| 4b | Location of topsoil, OB and mineral reject dumps | N1400-1500 E1600-1700 | No waste dumping as no waste generation. | NIL. |
| 4c | Number of dumps within lease area and outside of lease area | One. | NIL. | NIL. |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Outside UPL. | No waste dumping as no waste generation. | NIL. |
| 4e | Number of active and alive dumps. | Two (Soil and waste). | Nil as waste & soil not generated. | Soil dump was proposed in 2017-18 to 2018-19. |
| 4f | Number of dead dumps. | No proposal. | Not applicable. | NIL. |
| 4g | Number of dumps established. | No proposal. | Not applicable. | NIL. |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | No proposal. | Not applicable. | NIL. |
| 4i | Length of Retaining wall or garland drain all along dumps | No proposal. | Not applicable. | NIL. |
| 4j | Number of settling ponds | No proposal. | Not applicable. | NIL. |
| 4k | Specific comments of inspecting officer on waste dump management | One waste dump proposed during RY. | No waste dumping in lease area. | No waste dumping as no waste generation. |

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 of part or full extraction of mineral. | Not applicable. | NIL. |

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| 5b | Area under backfilling of mined out area | No proposal. | Not applicable. | NIL. |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | No proposal of top soil generation during RY. | Not applicable. | NIL. |
| 5d | Total area fully reclaimed and rehabilitated | No proposal. | Not applicable. | NIL. |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | No proposal of part or full extraction of mineral. | Not applicable. | None of the area 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). | As per rule 26 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year. | PMCP report for the year 2021-22 is not yet due for submission. | NIL. |
| 6b | Area available for rehabilitation (ha) . | No proposal. | Not applicable. | NIL. |
| 6c | afforestation done (ha) . | 1.0 hectare. | 1.0 hectare. | NIL. |
| 6d | No. of saplings planted during the year | 1000 numbers. | 1000 numbers. | NIL. |
| 6e | Cumulative no .of plants | 5000 numbers. (2017-18 to2021-22) | 2500 numbers. (2020-21 to 2021-22) | NIL. |
| 6f | Any other method of rehabilitation | No proposal of any other method of rehabilitation | Not applicable. | NIL. |
| 6g | Cost incurred on watch and care during the year | 2.2 lacs. | 1.58 lacs. | NIL. |

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|----|--|-----------------------------|-----------------|------|
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | No proposal of backfilling. | Not applicable. | NIL. |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | No proposal. | Not applicable. | 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. | Not applicable. | NIL. |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | No proposal. | Not applicable. | NIL. |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | 1000 numbers. | 1000 numbers. | NIL. |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | 1.0 hectare. | 1.0 hectare. | NIL. |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | Plantation. | Plantation. | NIL. |

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| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Monitoring of environment parameter. | Environmental monitoring has been carried out as per proposal. | NIL. |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | An area of 1.0 hectare has been proposed for plantation with 1000 numbers of saplings. | An area of 1.0 hectare has been planted with 1000 number of saplings. | PMCP compliances are satisfactory. |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|-------------------------------------|------------------------|--|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | No proposal for grade-wise sorting. | No grade wise sorting. | NIL. |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | No proposal for grade wise sorting. | Not applicable. | Only cursing and screening of ROM. |
| 7c | Different grade of mineral sorted out at mines. | No proposal. | Not applicable. | NIL. |
| 7d | Any beneficiation process at mines . | No proposal of any beneficiation. | Not applicable. | NIL. |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | No proposal of any beneficiation. | Not applicable. | No issue related to mineral conservation as entire ROM is useable. |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-------------------------------------|----------------------------------|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | No proposal of top soil generation. | Top soil has not been generated. | NIL. |

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| 8b | Concurrent use or storage of topsoil | No proposal. | Not applicable. | NIL. |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | One waste dump and one top soil dump. | Nil due to no IB and top soil generation. | Soil dump was proposed in 2017-18 to 2018-19. |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | No proposal. | Not applicable. | NIL. |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | No proposal. | Not applicable. | NIL. |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | Total 1000 nos of plantation proposed in 1.0 ha. | 1000 nos of sapling planted in 1.0 ha. | NIL. |
| 8g | Survival rate | Not specified. | Around 80%. | As reported during mine inspection. |
| 8h | Water sprinkling on roads to control airborne dust | Water Sprinkling in haul roads and pit by water tankers. | Water sprinkling observed. | NIL. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | Total 1000 nos of plantation proposed in 1.0 ha. | 1000 nos of sapling planted in 1.0 ha. | The general aesthetic beauty is satisfactory in and around mine area. |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
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|----|---|--|--|------|
| 9a | Status of submission of Monthly and Annual returns | As per rule 45 of MCDR, 2017 monthly and annual returns to be submitted. | Monthly returns for RY have been submitted. | NIL. |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Annual return for RY is not due for submission. | Mining Engineer: Vinod Choudhary Geologist: Partha Sarathi Maji | NIL. |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Annual return for RY is not due for submission. | Not applicable as annual return is yet to submit. | NIL. |
| 9d | Scrutiny of Annual return on afforestation | Annual return for RY is not due for submission. | Not applicable as annual return is yet to submit. | NIL. |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Annual return for RY is not due for submission. | Not applicable as annual return is yet to submit. | NIL. |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Annual return for RY is not due for submission. | Not applicable as annual return is yet to submit. | NIL. |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Annual return for RY is not due for submission. | Not applicable as annual return is yet to submit. | NIL. |
| 9h | Scrutiny of Annual return on fixed assets | Annual return for RY is not due for submission. | Not applicable as annual return is yet to submit. | NIL. |
| 9k | Scrutiny of Annual return on mining machineries | Annual return for RY is not due for submission. | Not applicable as annual return is yet to submit. | 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) | 01-JUN-22 | 01-AUG-22 | | | |

Date :

(DILIP JAIN)

Indian Bureau of Mines