

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/PAL-45/LST-3

**Mine code :** 38RAJ21009

- (i) Name of the Inspecting : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sh. Manoj Malvi, Mine Agent, Sh. Vishal Gupta, Mine M  
Official with  
Designation
- (iv) Date of Inspection : 05-MAR-20
- (v) Prev.inspection date : 14-SEP-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RAS (183.53 H)**
- (b) **Registration NO.** : **IBM/447/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : RAJASTHAN  
District : PALI  
Village :  
Taluka :  
Post office :  
Pin Code :  
FAX No. : 02939288030  
E-mail : manoj.malvi@ambujacement.co  
Phone : 02939-289209,288011,288012
- (f) Police Station : RAS
- (g) First opening date : 19-SEP-03
- (h) Weekly day of rest : SUN
2. Address for : AMBUJA CEMENT RAJASTHAN LTD  
correspondance P.O:-RABRIYAWAS, TEH :- JAITARAN  
DIST:-PALI, RAJASTHAN,306709
3. (a) Lease Number : RAJ1604
- (b) Lease area : 803.43
- (c) Period of lease : 50
- (d) Date of Expiry : 29-DEC-45
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : AMBUJA CEMENT RAJASTHAN LTD  
 Ambuja Cement Rajasthan  
 Ltd. P.O:-Rabriyas, Teh:-  
 Jaitaaran Dist:-Pali,  
 Rajasthan PALI RAJASTHAN  
 Phone:02939-288011-18  
 FAX :02939-288030

Owner : AJAY KAPUR  
 Elegant Business Park, MIDC  
 Cross Road B, Andheri-  
 Kurla Road, Andheri- East,  
 Mumbai (Maharashtra) MUMBAI  
 (SUBURBAN) MAHARASHTRA  
 Phone: 022-40667000 /  
 FAX :

Agent : Manoj Malvi  
 P. O. Rabriyawas, Tehsil-  
 Jaitaran, District Pali,  
 Rajasthan PALI RAJASTHAN  
 Phone: 90011090719  
 FAX : 02939288030

## Mining Engineer

Name : Vinod chaudhry, Full Time  
 Qualification : B. E. (Mining Engg)  
 Appointment/ : 11-AUG-16  
 Termination date

## Geologist

Name : Amit Sharma, Full Time  
 Qualification : M Sc (Geology)  
 Appointment/ : 27-OCT-14  
 Termination date

## Manager

Name : Vishal Gupta  
 Qualification : BE (MINING)  
 Appointment/ : 16-JUN-20  
 Termination date

6. Date of approval of Mining	:	Modif.of approved Mining Plan	19-DEC-13
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	03-NOV-16
		MP modif under 17(3) MCR 2016	07-JUN-18

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	27 BH proposed in 2017-18.	11 BH drilled in 2017-18.	Backlog of 16 BHs.
1b	Exploration over lease area for geological axis 1 or 2	25 Boreholes (including backlog of 16 BH of 2017-18).	A total of 19 BH have been drill as on date of inspection i.e 10 BH in 2018-19 and 09 BH in 2019-20.	Violation of MCDR issued during previous inspection vide letter dated 24/10/2019.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s Giem (India) Consortium. No proposal about expenditure.	M/s Geotech 6,10,000 (As reported during mine inspection)	Expenditure includes the expenditure of 2018-19 and 2019-20.
1d	Balance area to be explored to bring Geological axis in 1 or 2	32 Ha	Entire mineralised area explored under G1 level of exploration.	NIL.
1e	Balance reserve as on 01/04/20	As per approved document dated 07/06/2018, the position of reserve and resource as on 01/04/2018 was 125.24 and 12.50 million tonnes respectively.	The position of reserve and resource as on 01/04/2019 was 125.00 and 12.50 million tonnes respectively.	Depletion of 0.24 million tonnes.
1f	General remarks of inspecting officers on geology, exploration etc	A total of 25 BH have been proposed to drill.	A total of 19 BH have been drill as on date of inspection.	Entire mineralised area explored under G1 level of exploration.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E423600-423900; N 2919900-2920300.	Development carried out within approved limits i.e. E423600-423900; N 2919900-2920300.	NIL.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil and separate benches in OB and Mineral.	No top soil and separate benches developed in OB and Mineral.	NIL.
2c	Stripping ratio or ore to OB ratio	1:0.22 Ton/Ton	1:0.15 Ton/Ton	Waste generation is less due to less production.
2d	Quantity of topsoil generation in m3	No proposal.	Not applicable.	NIL.
2e	Quantity of overburden generation in m3	0.06 million tonnes.	0.036 million tonnes.	NIL.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development has been proposed through opencast method of mining.	Develop has been carried out as per proposal.	Open cast method of development is suitable as the mineral occurs near surface.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single.	Single.	NIL.
3b	Quantity of ROM mineral production proposed	0.279 million tonnes.	0.243 million tones.	NIL.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	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.	Not applicable.	NIL.
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	NIL.

3h	Manual / Mechanised method adopted for segregating from ROM	No proposal of segregation at mine site.	No segregation at mine site. ROM dispatch to the crushed located in RAS-II lease area.	NIL.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	Not applicable.	NIL.
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting has been proposed over mineral benches.	Drilling and blasting observed as per proposal.	NIL.
3k	Provision of mining machineries in mineral benches	Drilling machine, Excavator, Dumper, Water - tanker etc.	Mining machineries has been deployed as per proposal.	NIL.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the benches has been proposed to 8 mts.	The height of the benches has been maintained as per proposal and suitable for proposed method of mining.	NIL.
3m	Total area covered under excavation/pits	21.27 Ha (at the end of the planned period 2021-22).	10.68Ha ( as on 01/04/2019).	NIL.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.22 Ton/Ton	1:0.15 Ton/Ton	Waste generation is less due to less production.
3o	Total area put in use under different heads at the end of year	44.64 Ha (at the end of the planned period 2021-22).	18.71 ( as on 01/04/2019).	NIL.
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 279000 2015-16: 279000 2016-17: 279000 2017-18: 279000 2018-19: 279000	2014-15: 230080 2015-16: 256012 2016-17: 237103 2017-18: 278617 2018-19: 242836	All figures in tonnes.

3q	General remarks of inspecting officers on method of mining etc.	Opencast method of the mining has been proposed.	Opencast method of mining has been practiced.	Due to near surface deposition of mineral opencast method is suitable.
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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 top soil and Mineral Reject generation. OB/waste is proposed to dump separately over marked place.	Top soil and mineral reject generation is NIL. Waste generated has dumped separately over marked place.	NIL.
4b	Location of topsoil, OB and mineral reject dumps	Proposed waste dump location: WD1: E423600- E423800/N29189 50-N2919150, WD2: E423750- E424000/N29190 50-N2919500, Screen reject no. 1 E423250- E423500/N29203 50-N2920600.	WD1: Grid E 423600 to 423800 and N 2918950 to 2919150.	As on date of inspection only one waste dump exists.
4c	Number of dumps within lease area and outside of lease area	Inside Lease area- three Outside Lease area: NIL	Inside Lease area- One Outside Lease area: NIL	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL.	Outside of UPL.	NIL.
4e	Number of active and alive dumps.	Three.	One.	Only one waste dump as generation of the waste is less.
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.	Retaining wall and garland drain to be provided along the dumps to arrest surface run-off.	Retaining wall and garland drain has been observed.	NIL.
4i	Length of Retaining wall or garland drain all along dumps	100 mts of retaining wall and garland drain.	Retaining wall and garland drain has been observed at necessary places.	NIL.
4j	Number of settling ponds	No Proposal.	Not applicable.	NIL.
4k	Specific comments of inspecting officer on waste dump management	Generated waste has been proposed to dispose through dumping.	Generated waste has been disposed through dumping.	No issues related to waste dumping.

#### 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 full extraction.	Not applicable.	NIL.
5b	Area under backfilling of mined out area	No proposal of backfilling.	Not applicable.	NIL.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil generation.	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 full extraction and backfilling.	No backfilling in the mine.	None of the area is fully extracted and matured for backfilling.

#### 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).	As per rule 26 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report of the year 2018-19 has been submitted.	NIL.
6b	Area available for rehabilitation (ha) .	No proposal of rehabilitation of degraded area.	Not applicable as no proposal.	NIL.
6c	afforestation done (ha).	1.0	0.02	Total 4.92 Ha. area has been planted.
6d	No. of saplings planted during the year	1000	3000	NIL.
6e	Cumulative no .of plants	No proposal.	22700 as on 01/04/2019.	NIL.
6f	Any other method of rehabilitation	Other than plantation, no any other method of rehabilitation	Not applicable as no proposal.	NIL.
6g	Cost incurred on watch and care during the year	1.70Lakh	4.39Lakh (as reported).	NIL.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal.	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 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	No proposal.	Not applicable.	NIL.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	Not applicable.	NIL.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	Not applicable.	NIL.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly.	Quarterly monitoring of air, water and noise are being done.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Other than planation no specific proposal.	Plantation work has been carried out in the mine.	No issue related to implementation of PMCP proposal.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal of	No segregation at mine site. ROM dispatch to the crushed located in RAS-II lease area.	NIL.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No Proposal.	Not applicable	NIL.
7c	Different grade of mineral sorted out at mines.	No Proposal.	Not applicable	NIL.
7d	Any beneficiation process at mines .	No proposal of beneficiation.	Not applicable.	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposal of any beneficiation or grade wise sorting.	No beneficiation and grade wise sorting a mine site.	No issues of mineral conservation observed.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation.	No top soil generation during the RY.	NIL.
8b	Concurrent use or storage of topsoil	No proposal.	Not applicable.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of the waste has been proposed.	Waste generated has been dumped separately.	NIL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	As such no area is matured for backfilling.	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)	1000 number of sapling has been proposed to plant.	3000 number of saplings has been planted.	NIL.
8g	Survival rate	Not specified.	83%	As per AR 2018-19.
8h	Water sprinkling on roads to control airborne dust	Proposed.	Observed on the haul road etc.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	1000 number of sapling has been proposed to plant.	3000 number of saplings has been planted.	The aesthetic beauty of the mine is satisfactory.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, 2017, holder of mining lease should submit Monthly and Annual return in prescribed format.	Monthly and Annual return of the year 2018-19 has been submitted by the lessee.	NIL.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information of Mining Engineer, Geologist and Manager has been furnished.	Mining Engineer, Geologist and Mine Manager as per MCDR, 2017 has been appointed.	Scrutiny of AR 2018-19.

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings: 10.68 Ha., Used for waste disposal: 0.56 Ha., Infrastructure : 2.55 Ha. Other purpose (plantation): 4.92 Ha.	Information furnished on land use appears to correct.	Scrutiny of AR 2018-19.
9d	Scrutiny of Annual return on afforestation	3000 plants.	3000 plants.	NIL.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL.	No mineral reject generation.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM and Graded ore closing stock: NIL.	The information furnished found to correct.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price and cost of production: 233.30/ ton.	Found in order.	NIL.
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is Rs. 18713832.00	The information furnished appears to be correct.	NIL.
9k	Scrutiny of Annual return on mining machineries	Back Hoe, Tipper, Rock Drill, Wheel Loader.	The information furnished in respect of mining machineries appears to correct.	NIL.

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**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

**Date :**

**(DILIP JAIN)**

Indian Bureau of Mines