

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/PAL-32/L.ST-1

**Mine code :** 38RAJ21001

- (i) Name of the Inspecting : **S012** ) **Sharma H.C.**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. M. K. Malvi, Agent  
Official with  
Designation
- (iv) Date of Inspection : 08-SEP-16
- (v) Prev.inspection date : 19-SEP-15

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RAS (803.33 HA)**
- (b) **Registration NO.** : **IBM/447/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **RAJASTHAN**
- District : **PALI**
- Village : **RABRIYAWAS**
- Taluka : **JAITARAN**
- Post office : **DLF RABRIYAWAS**
- Pin Code : **306709**
- FAX No. : **02939288030**
- E-mail : **manoj.malvi@ambujacement.co**
- Phone : **02939-289209,288011,288012**
- (f) **Police Station** : **Ras**
- (g) **First opening date** : **10-FEB-96**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **AMBUJA CEMENT LTD.**  
**correspondance** **P.O:-RABRIYAWAS, TEH :- JAITARAN**  
**DIST:-PALI, RAJASTHAN,306709**
3. (a) **Lease Number** : **RAJ1604**
- (b) **Lease area** : **803**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **29-DEC-15**
4. **Mineral worked** : **LIMESTONE** **Main**

## 5. Name and Address of the

Lessee : AMBUJA CEMENT LTD  
 VILL.- RABARIYAWAS DIST-  
 PALI 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 : M.K. MALVI  
 AMBUJA CEMENT LTD. P.O:-  
 RABRIYAWAS, TEH :- JAITARAN  
 AJMER RAJASTHAN  
 Phone: 02939-288011-18  
 FAX : 02939-288030

## Mining Engineer

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

## Geologist

Name : Santanu Chatterjee, Full Time  
 Qualification : M Sc Geology (Integrated)  
 Appointment/ : 24-MAY-16  
 Termination date

## Manager

Name : Sandeep Singh  
 Qualification : B. E. (Mining Engg), FCC (R)  
 Appointment/ : 15-JUL-10  
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	27-JUN-97
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	05-SEP-02
	:	Modif. approved Mining Scheme	10-JAN-05
	:	Mining Scheme rule 12 MCDR1988	21-MAR-06
	:	Modif. approved Mining Scheme	30-MAR-09
	:	Mining Scheme rule 12 MCDR1988	04-NOV-11
	:	Mining Scheme rule 12 MCDR1988	30-JUL-15

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	20 Boreholes proposed.	11 bore holes drilled	Pointed as V/L
1b	Exploration over lease area for geological axis 1 or 2	proposed to the level of G1 axis	G1 axis	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/S GIEM India Ltd. Expenditure not specified.	M/S GIEM India Ltd. Expenditure Rs 790443.50.	
1d	Balance area to be explored to bring Geological axis in 1 or 2			
1e	Balance reserve as on 01/04/20	Not specified.	Not applicable	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The exploration done is inadequate & lagging.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ER:+370 mRL: N330- N3850 N4750-N5000 WR:+370mRL N3200- N3850 N5150-N6000	Being done	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	06 Benches in Ore as there is no O/B & top Soil.	Being done	
2c	Stripping ratio or ore to OB ratio	1 : 0.77	1 : 0.90	
2d	Quantity of topsoil generation in m3	There is no top Soil.	Not applicable	
2e	Quantity of overburden generation in m3	2.2 MT Interburden waste	2002118 T	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The deposit had been developed satisfactorily in Eastern, Western & South western pits/blocks.
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**Exploitation:**

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	03 pits proposed for production.	Being done	
3b	Quantity of ROM mineral production proposed	2.99 MT	2223154 T	
3c	Recovery of sailable/usable mineral from ROM production	57.61 %	52.61 %	
3d	Quantity of mineral reject generation	2.2 MT	2002118 T	
3e	Grade of mineral rejects generation and threshold value declared.	CaO= 39- 44%	Being done	
3f	Quantity of sub grade mineral generation.	There is no subgrade mineral generation in the mine.	Not applicable	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method. Screen & Wobbler installed.	Being done	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposals for current plan period.	Beneficiation study previously done.	
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	

3k	Provision of mining machineries in mineral benches	Yes	Yes
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes
3m	Total area covered under excavation/pits	198.10 ha for 5 year plan period.	130.00 ha presently.
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.77	1:0.90
3o	Total area put in use under different heads at the end of year	Under mining-- 148.10 ha, Waste dump-- 138.08 ha, Infrastructure --0.30 ha, Roads- 10.95, Green Belt- 18.05 ha. for entire plan Period.	Under mining-- 122.78 ha, Waste dump--80.98 ha, Infrastructure--0.30 ha, Roads- 2.4, Green Belt- 95.95ha.
3p	Production of ROM mineral during the last five year period as applicable	2011-12-- 2.79MT, 2012-13--3.01 MT, 2013-14-- 3.37MT, 2014-15--3.08MT, 2015-16-- 2.99MT	2011-12-- 2080730T, 2012-13--2542313T, 2013-14-- 2798691T, 2014-15-- 2280738T, 2015-16-- 2223154T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The mechanised method had been adopted, however the production raised is lower side than proposed due to various reasons like market, plant shut down etc.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Proposals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no top soil generation & no O/B, only interburden waste is there. Seperate dumping of waste & rejects proposed.	Being done.
4b	Location of topsoil, OB and mineral reject dumps	As per modified mining plan.	Being done
4c	Number of dumps within lease area and outside of lease area	04 nos of dumps within leasehold area.	Being done
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Being done
4e	Number of active and alive dumps.	04 Nos	04 Nos.
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	No
4i	Length of Retaining wall or garland drain all along dumps	Proposed to be made all along the toe of the dumps.	No retaining wall or garland drain provided along the toe of the dumps.
4j	Number of settling ponds	02 Nos of settling ponds proposed.	Being done
4k	Specific comments of inspecting officer on waste dump management	Not applicable	The general house keeping of dumps is poor.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	The mineral is continuing in depth, as such no backfilling proposed.	Not applicable
5b	Area under backfilling of mined out area	Not applicable	Not applicable
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There is no top soil generation.	Not applicable
5d	Total area fully reclaimed and rehabilitated	Not applicable	Not applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	No area had become matured for backfilling & reclamation.

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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).	Yes	Not submitted.	V/L of rule 23(E)(2) pointed out.
6b	Area available for rehabilitation (ha) .	Nil	Not applicable	
6c	afforestation done (ha).	3.5 ha	4.8 ha	
6d	No. of saplings planted during the year	1000 Nos of trees proposed to be planted each year over an area of 1 ha.	2500 planted during the year within Mining Lease & 3500 outside ML.	
6e	Cumulative no .of plants	5000 no of plants.	6000 planted.	
6f	Any other method of rehabilitation	Not specified.	Not applicable	

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6g	Cost incurred on watch and care during the year	Not specified	Not computed separately.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not applicable	Not applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not applicable	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not applicable	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	yes	Being done
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable	Not applicable



6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	AS per EC & Consent conditions.	Being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	No matured area is available for reclamation & rehabilitation.

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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 grade wise sorting of mineral.	No gradewise sorting is practiced.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not applicable	Not applicable	
7c	Different grade of mineral sorted out at mines.	Not applicable	Not applicable	
7d	Any beneficiation process at mines .	Screeing system installed in the mine.	Being done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	No grade wise sorting is practiced, the ROM is fed to the screeing plant.	

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	There is no top soil.	Not applicable
8b	Concurrent use or storage of topsoil	Not applicable	Not applicable
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Being done
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals specified.	Not applicable
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No specified proposal.	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The area was devoid of vegetation cover except few thorny bushes. As per modified mining plan 1000 trees to be planted each year.	A total of 186372 trees planted within ML & 173045 planted outside ML.
8g	Survival rate	No proposal specified.	79.6% within ML & 73.14 % outside ML.
8h	Water sprinkling on roads to control airborne dust	Yes	Being done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The aesthetic beauty in & around mine is satisfactory.

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M/R submitted upto September 2016 A/R submitted up to 2015-16	Found in order.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes Provided	Found in order.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes provided.	Found in order.	
9d	Scrutiny of Annual return on afforestation	Yes provided	Found in order.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes Given	Found in order.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes given	Found in order.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes Provided	Found in order.	
9h	Scrutiny of Annual return on fixed assets	Yes given	Found in order.	
9k	Scrutiny of Annual return on mining machineries	YES provided	Found in order.	

**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
Rule 13(1)	30-SEP-16				
Rule 23E(2)	30-SEP-16				
Rule 27(4)	30-SEP-16				
Rule 33(1)	30-SEP-16				
Rule 42(1)(C)(I)	30-SEP-16				

**Date :**

**(Sharma H.C.)**

Indian Bureau of Mines