

**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, GM (MINES)
Official with
Designation
- (iv) Date of Inspection : 08/09/2017
- (v) Prev.inspection date : 08/09/2016

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** : **10/02/1996**
- (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** : **803.33**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **29/12/2045**
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/ : 11/08/2016
 Termination date

Geologist

Name : Santanu Chatterjee, Full Time
 Qualification : M Sc Geology(Integrated)
 Appointment/ : 24/05/2016
 Termination date

Manager

Name : Sandeep Singh
 Qualification : B. E. (Mining Engg), FCC (R)
 Appointment/ : 15/07/2010
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	27/06/1997
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	05/09/2002
	:	Modif.approved Mining Scheme	10/01/2005
	:	Mining Scheme rule 12 MCDR1988	21/03/2006
	:	Modif.approved Mining Scheme	30/03/2009
	:	Mining Scheme rule 12 MCDR1988	04/11/2011
	:	Mining Scheme rule 12 MCDR1988	30/07/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	11 boreholes	11 boreholes	
1b	Exploration over lease area for geological axis 1 or 2	Not Specified	Not applicable	
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	No specified proposal	Not applicable	
1e	Balance reserve as on 01/04/20	Not specified	103.37 Million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The Lessee's conduct towards exploration was satisfactory.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ER: +354mRL, N2500- N 3750, WR+370mRL, N2800- N3550, N 5150-N6000, SW:+354mRL & +394mRL,N 3450-N4300 & N 5100- N5350	ER: +370mRL, N2600- N 3400, WR+370mRL, N2800- N3500, N 5150-N6000, SW:+382mRL & +394mRL,N 3400-N4300 & N 5000- N5400	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no top Soil or O/B, only Interburden Waste. 6 Benches in ore	Being Done	
2c	Stripping ratio or ore to OB ratio	1 : 0.77	1 : 0.86	
2d	Quantity of topsoil generation in m3	There is no top Soil	NIL	

2e	Quantity of overburden generation in m3	2.54 Million Tonnes Interburden Waste	1585380 T Interburden waste
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The deposit has been developed satisfactorily in Eastern, Western & South Western Pit Blocks.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	03	03	
3b	Quantity of ROM mineral production proposed	3.30 Million Tonnes	1831515 Tonnes	
3c	Recovery of sailable/usable mineral from ROM production	56.51%	53.60%	
3d	Quantity of mineral reject generation	2.54 Million Tonnes	1585380 Tonnes	
3e	Grade of mineral rejects generation and threshold value declared.	Cao = 39-44%	Cao = 39-44%	
3f	Quantity of sub grade mineral generation.	There is no subgrade generation in the mine.	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized Screen & Wobler installed.	Being done	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal for current year.	Not applicable	

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	148.10 ha	130.49 ha
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.77	1 : 0.86
3o	Total area put in use under different heads at the end of year	315.48 ha during 5 years period	243.14 ha till date
3p	Production of ROM mineral during the last five year period as applicable	2012-13- 3.01 MT, 2013-14- 3.37 MT, 2014-15- 3.08MT, 2015-16- 3.82 MT, 2016-17- 3.30MT	2012-13- 2542313 T, 2013-14- 2798691 T, 2014-15- 2280738 T, 2015-16- 2223154 T, 2016-17- 1831515 T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The mechanized method had been adopted but production was on lower side due to Market conditions & plant Shut Down.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no top soil & O/B. Only Interburden waste is there which has been dumped separately.	Being done	

4b	Location of topsoil, OB and mineral reject dumps	There is no top soil & O/B. Only Interburden waste.	The interburden waste has been dumped as per mining scheme.	
4c	Number of dumps within lease area and outside of lease area	03	02	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Being done	
4e	Number of active and alive dumps.	03	02	
4f	Number of dead dumps.	08	being done	
4g	Number of dumps established.	08	being done	
4h	Whether Retaining wall or garland drain all along dumps are there.	No	No	The VL has been pointedout for it.
4i	Length of Retaining wall or garland drain all along dumps	None	NIL	
4j	Number of settling ponds	None	Nil	
4k	Specific comments of inspecting officer on waste dump management	Not applicable	The general house keeping of dumps is poor, the retaining wall & garland drain have not been provided along dumps for which VL has been pointed out.	

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.	The mineral is continuing in depth, as such there is no proposal of backfilling.	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.	Not applicable
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	No area had become matured for backfilling & reclamation.

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	
6b	Area available for rehabilitation (ha) .	NIL	Not applicable	
6c	afforestation done (ha).	1.0 ha	4.0ha	
6d	No. of saplings planted during the year	1000 per year	6000 during the year	
6e	Cumulative no .of plants	2000 no	13500 nos	
6f	Any other method of rehabilitation	None	Not applicable	
6g	Cost incurred on watch and care during the year	Not specified	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Not applicable	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not specified	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	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)	No proposal	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	AS per EC & Consent condition.	Being done

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The annual return of PMCP has not been submitted for which the violation has been pointed out.
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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 grade wise sorting is done.	Not applicable	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Not applicable	
7c	Different grade of mineral sorted out at mines.	Not specified	Not applicable	
7d	Any beneficiation process at mines	Screening system installed.	Being done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	No gradewise sorting is done, the ROM is fed to the screeing plant.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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 proposal	Not applicable
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	There is no vegetation on hills except sme thorny bushes.	A total of 1000 no of plants proposed to be planted each year.
8g	Survival rate	No proposal	90.87 % within ML & 94% outside ML
8h	Water sprinkling on roads to control airborne dust	Yes	Beng done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The aesthatic beauty in & around the mine is satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not applicable	The M/R submitted Up to Aug 2017 & A/R submitted for the year 2016-17.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Detail Given	Found OK
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Detail Given	Found OK
9d	Scrutiny of Annual return on afforestation	Detail Given	Found OK
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Detail Given	Found OK
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Detail Given	Found OK
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Detail Given	Found OK
9h	Scrutiny of Annual return on fixed assets	Detail Given	Found OK
9k	Scrutiny of Annual return on mining machineries	Detail Given	Found OK

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 :

(Sharma H.C.)

Indian Bureau of Mines