

**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 : **S012**) **Sharma H.C.**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Manoj Malvi, GM
Official with
Designation
- (iv) Date of Inspection : 14-SEP-19
- (v) Prev.inspection date : 11-FEB-18

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 : **Ras**
- Taluka : **Jaitaran**
- Post office : **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** : **19-SEP-03**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **AMBUJA CEMENT RAJASTHAN LTD**
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	1180 Mt	328 Mt	
1b	Exploration over lease area for geological axis 1 or 2	32 Ha	10 Ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s Geotech Rs. 81,30,000/-	M/s Geotech Rs. 4,52,756/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	32 Ha	22 Ha	
1e	Balance reserve as on 01/04/20	125.0 million MT	125.0 million MT	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The exploration work is in progress as per proposals.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E/W 423600-423900;N/S 2919900-2920300	E/W 423600-423900;N/S 2919900-2920300	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top Soil, separate bench in O/B waste.	No top Soil, separate bench in O/B waste.	
2c	Stripping ratio or ore to OB ratio	1:0.20	1:0.19	
2d	Quantity of topsoil generation in m3	Not applicable	Not applicable	
2e	Quantity of overburden generation in m3	24000 Cu M	14230 Cu M	

2f General remarks Not applicable The development work is
of inspecting officers on development of
of deposit etc pit w.r.t. type
of deposit etc

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single	Single	
3b	Quantity of ROM mineral production proposed	279000 T	242836T	
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	
3d	Quantity of mineral reject generation	Nil	Not applicable	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	Nil	Not applicable	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not applicable	
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	

3k	Provision of mining machineries in mineral benches	Drilling machine Excavator Dumper Water - tanker	Drilling machine Excavator Dumper Water - tanker	
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	10.8 Ha	10.68Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.20	1:0.19	
3o	Total area put in use under different heads at the end of year	8.03 Ha	8.03 Ha	Dump, Roads, Green Belt etc.
3p	Production of ROM mineral during the last five year period as applicable	2013-14- 279000 T, 2014-15- 279000T, 2015- 16- 279000T, 2016-17- 279000T, 2017- 18- 279000 T, 2018-19- 279000 T	2013-14- 166107T, 2014- 15- 230080T, 2015-16- 256012T, 2016-17- 237103T, 2017-18- 278617 T. 2018-19- 242836 T	
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The open cast mechanized method had been adopted for carrying out mining operations in the lease area.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil, Separate dumping of O/B waste.	No top soil, Separate dumping of O/B waste.	

4b	Location of topsoil, OB and mineral reject dumps	Waste Dumping at Grid E 423600 to 423800 and N 2918950 to 2919150.	Waste Dumping at Grid E 423600 to 423800 and N 2918950 to 2919150.
4c	Number of dumps within lease area and outside of lease area	01	01
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out Side UPL	Out side UPL
4e	Number of active and alive dumps.	01	01
4f	Number of dead dumps.	0	0
4g	Number of dumps established.	0	0
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Not applicable
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Not applicable
4j	Number of settling ponds	No proposal	Not applicable
4k	Specific comments of inspecting officer on waste dump management	Not applicable	No issue regarding waste dumping management.

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 matured land available for backfilling, hence no proposal of backfilling.	Not applicable	
5b	Area under backfilling of mined out area	No proposal	Not applicable	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top Soil generation	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 matured area for backfilling is there in the mine.

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 as per rule	Yes Submitted	
6b	Area available for rehabilitation (ha) .	No proposal	Not applicable	
6c	afforestation done (ha).	1.0 ha	0.2 ha	
6d	No. of saplings planted during the year	3000 nos	3000nos	
6e	Cumulative no .of plants	22700(Till 2019)	22700(Till March 2019)	
6f	Any other method of rehabilitation	No Proposal	Not applicable	
6g	Cost incurred on watch and care during the year	No proposal	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	No proposal	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	3000 nos	3000 nos
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1 ha	0.2 (4.92ha)
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation	Plantation.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring as per SPCB conditions.	Being done

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The implementation of PMCP in the mine was satisfactory.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	279000 MT	242836 MT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines.	No proposal	Not applicable	
7d	Any beneficiation process at mines	No proposal	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	No issue regarding mineral conservation.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil available at site of excavation.	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)	Seperate dumps for O/B waste	Seperate dumps for O/B waste
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal except Dumping it Seperately.	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)	Yes	A total of 19708 nos planted so far.
8g	Survival rate	Not specified	About 83%.
8h	Water sprinkling on roads to control airborne dust	Yes	Yes
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aesthatic beauty in & around the mine was satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not applicable	M.R Submitted upto August,2019 A.R. Submitted upto 2018-19	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager Sh. Vishal Gupta & Geologist- Sh Amit Sharma	Manager Sh. Vishal Gupta & Geologist- Sh Amit Sharma
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under workings 10.68 ha, Waste Disposal 0.560 ha, Occupied by Building- 2.550 ha, Green Belt- 4.92 ha	Under workings 10.68 ha, Waste Disposal 0.560 ha, Occupied by Building- 2.550 ha, Green Belt- 4.92 ha
9d	Scrutiny of Annual return on afforestation	3000 planted during the year within lease area.	3000 planted during the year within lease area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject generation- Nil	Reject generation- Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock- Nil, Production- 242836.00 & Closing stock - Nil	Opening Stock- Nil, Production- 242836.00 & Closing stock - Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production Stated as Rs. 200.86 per Tonne.	A total of Rs. 55786657/- have been expensed to raise a production of 242836 T of mineral, there by the cost of production comes about Rs 229.73 per Tonne, which has been stated as Rs. 200.86 per tonne.
9h	Scrutiny of Annual return on fixed assets	The value of Fixed assets Rs. 18713832.00 & depreciation during the year is Rs. 3006342.00.	The value of Fixed assets Rs. 18713832.00 & depreciation during the year is Rs. 3006342.00.
9k	Scrutiny of Annual return on mining machineries	The list of mining M/C deployed had been given.	Found in order.

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