

**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 : **K018** ) **Dr A Z Khan**  
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Rajnish Bohra, Mine Manager & Amit Sharma, Geologist  
Official with  
Designation
- (iv) Date of Inspection : 19-DEC-23
- (v) Prev.inspection date : 09-FEB-23

**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 : **RABRIYAWAS**
- Pin Code : **306709**
- FAX No. : **02939288030**
- E-mail : **sandeep.singh@ambujacement**
- 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** : **803.43**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **28-DEC-45**
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 : Neeraj Akhoury  
 Elegant Business Park,MIDC  
 Cross Road Boff Andheri  
 Kurla Road Mumbai Andheri  
 East,Maharashtra-400059  
 MUMBAI (SUBURBAN)  
 MAHARASHTRA  
 Phone:  
 FAX :

Agent : Sandeep Singh  
 Ambuja Cement Limited  
 Rabadiyawas Jaitaran PALI  
 RAJASTHAN  
 Phone: 9001090758  
 FAX :

Mining Engineer  
 Name : Abhay Verma,Full Time  
 Qualification : BE Mining  
 Appointment/ : 01-JUL-22  
 Termination date

Mining Engineer  
 Name : Rajnish Bora,Full Time  
 Qualification : B.E.(Mining Engg)  
 Appointment/ : 11-AUG-16 03-JUN-22  
 Termination date

Geologist  
 Name : Amit sharma,Full Time  
 Qualification : M.Sc( Geology)  
 Appointment/ : 01-AUG-20  
 Termination date

Geologist  
 Name : Santanu Chatterjee,Full Time  
 Qualification : M Sc Geology(Integrated)  
 Appointment/ : 24-MAY-16 31-JUL-20  
 Termination date

Manager  
 Name : Sandeep Singh  
 Qualification : B. E. (Mining Engg), FCC (R)  
 Appointment/ : 15-JUL-10 31-MAR-22  
 Termination date

Manager  
 Name : Rajnish Bora  
 Qualification : BE Mining

Appointment/ : 01-APR-22  
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
		MP modif under 17(3) MCR 2016	25-JUL-18
		MP review under 17(1) MCR 2016	30-DEC-19
		MP modif under 17(3) MCR 2016	16-AUG-21

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Not applicable	Entire mineralized area of 214.59 ha has been explored to G1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Not applicable	Entire mineralized area of 214.59 ha has already been explored to G1 level.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Entire mineralized area of 214.59 ha has been explored to G1 level.	Mineralized= 214.59Ha, Non Mineralized Zone: 588.84ha and Total Area: 803.43ha
1e	Balance reserve as on 01/04/20	No yearwise specific proposal	Balance reserves are 56.40 million tons as on 01.04.2023	Nil
1f	General remarks of inspecting officers on geology, exploration etc			Entire mineralized area of 214.59 ha has already been explored to G1 level.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North Wester Ridge- Northern Hill Western Ridge- North Side (Logistic Hill) Block Temple Hill	North Wester Ridge- Northern Hill Western Ridge- North Side (Logistic Hill) D Block Temple Hill	At places benches are not made properly and bench height also not maintained to 8 meter for which violation of rule 11(1) has been pointed out
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Top soil & OB, only interburden & 09 benches proposed in mineral.	Benches are not made properly and bench height also not maintained to 8 meter.	Violation of rule 11(1) has been pointed out

2c	Stripping ratio or ore to OB ratio	1:0.48	1:0.31	Nil
2d	Quantity of topsoil generation in m3	No top soil generation proposal	No top soil generated during the year	Nil
2e	Quantity of overburden generation in m3	Interburden generation of 703424 m3 was proposed during the year 2022-23	Interburden of 606740m3 generated during the year 2022-23	Due to less development & production
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine development work has not been carried out as per proposal. Benches are not made properly and bench height also not maintained to 8 meter. Violation of rule 11(1) of MCDR, 2017 has been pointed out

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	North Wester Ridge-Northern Hill Western Ridge-North Side (Logistic Hill) Block	North Wester Ridge-Northern Hill Western Ridge- North Side (Logistic Hill) D Block Temple Hill	Nil
3b	Quantity of ROM mineral production proposed	35,99,673 tonne	25,20,273 tonne	None
3c	Recovery of sailable/usable mineral from ROM production	2879738 tonne	19,57,598 tonne	Nil
3d	Quantity of mineral reject generation	287973.8 m3 (Screen Reject)	225070 m3 as screen reject	Nil

3e	Grade of mineral rejects generation and threshold value declared.	Grade of Mineral Reject(Screen Reject) no proposed.	Grade of Mineral Reject(Screen Reject) is less than Cao<34%	Nil
3f	Quantity of sub grade mineral generation.	No proposal for subgrade generation during the year	No subgrade generation during the year.	Nil
3g	Grade of sub grade mineral generation	No proposal for grade of sub grade	Not applicable as no subgrade generation during the year.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method adopted	Mechanised Screen & wobbler installed and used for screening the ROM	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	None during the reporting year	Nil
3j	Provision of drilling and blasting in mineral benches	Yes, 115mm dia holes drilling and its deephole blasting was proposed.	115mm dia holes drilling and its deephole blasting has been carried out	Nil
3k	Provision of mining machineries in mineral benches	Provision of mining machineries in mineral benches has been proposed	<p>Mining Machinery Used are given below</p> <ol style="list-style-type: none"> <li>1) Back Hoe - 4.50CuM</li> <li>2) Back Hoe- 3.60 CuM-</li> <li>3) Dumper - 47.2.00Ton</li> <li>4) Dozer - 303.00HP</li> <li>5) Front End Loader- 3.10CuM</li> <li>6) Tipper-8.00CUM</li> <li>7) Motor Grader - 195.00HP</li> <li>8) Rock Drill(Non Elect)- 115.00MM</li> <li>9) Road Roller-11.70Ton</li> <li>10) Crusher-1200.00T/H</li> <li>11) Water Tanker-14000LT</li> <li>12) Water Tanker-20000LT</li> <li>13) Explosive Van- 2.97Tonne</li> <li>14) Explosive Van- 4.225Tonne</li> </ol>	Nil

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 8m bench height was proposed	At places benches are not made properly and bench height also not maintained to 8 meter.	Violation of rule 11(1) of MCDR,2017 has been pointed out	
3m	Total area covered under excavation/pits	No yearwise specific proposal	Area covered under open pit is 163.370 ha	Nil	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.48	1:0.31	Due to less production	
3o	Total area put in use under different heads at the end of year	318.74 ha	307.86 ha	Nil	
3p	Production of ROM mineral during the last five year period as applicable	2022-2023: 3.599673 Mio tons 2021-2022: 3.60 Mio tons 2020-2021: 3.60 Mio tons 2019-20: 3.33 Mio tons 2018-19: 3.28 Mio tons	2022-2023: tons 2021-2022: ton 2020-2021: ton 2019-20: Mio tons 2018-19: Mio tons	2.52 Mio 2.54 Mio 2.92 Mio 1.88 2.32	None
3q	General remarks of inspecting officers on method of mining etc.			Mechanised Opencast method of mining is being used which is suitable for the deposit	

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal for Topsoil & OB dumps . For interburden waste and mineral rejects(screen reject) dumps proposal was given	Topsoil generation was not there and separate dumps were for interburden waste and mineral rejects(screen reject).	Nil
4b	Location of topsoil, OB and mineral reject dumps	Top Soil:No proposal Waste/Screen dumps W3 N5690-N5950, E4582-E4815 W1 N5570-N5725, E 4065-E4250 SW1 N2694-N3394, E4633-E4768	Top Soil: No proposal Waste/Screen dumps W3 N5690-N5950, E4582-E4815 W1 N5570-N5725, E 4065-E4250 SW1 N2694-N3394, E4633-E4768	waste dump management has not been carried out as per approved proposal. The waste is not properly spread over dumps and at places terracing also not found. Violation of rule 11(1) of MCDR,2017 has been pointed out
4c	Number of dumps within lease area and outside of lease area	09 dumps within lease area	09 dumps within lease area	None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL	Outside of UPL	None
4e	Number of active and alive dumps.	09	09	In active parts of the dumps has been stabilized by plantation
4f	Number of dead dumps.	No proposal	None	Nil
4g	Number of dumps established.	No such proposal given during the year	None during the reporting year	In active parts of the dumps has been stabilized by plantation
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes, proposal of retaining walls & garland drain given during the year 2022-23	Garland drain & retaining wall constructed as per proposal	
4i	Length of Retaining wall or garland drain all along dumps	Proposed Garland Drain- 320 m Proposed Retaining wall-100m	Garland drain & retaining wall constructed as per proposal	



4j	Number of settling ponds	No proposal	None	Nil
4k	Specific comments of inspecting officer on waste dump management			Waste dump management has not been carried out as per approved proposal. The waste is not properly spread over dumps and at places terracing also not found. Violation of rule 11(1) of MCDR, 2017 has been pointed out

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Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	proposed to backfill 1.41 hect. during the year 2022-23	0.36 hect area has been backfilled during the year 2022-23	Violation of rule 11(1) of MCDR, 2017 has been pointed out
5b	Area under backfilling of mined out area	Proposed to backfill 1.41 hect. during the year 2022-23	0.36 hect area has been backfilled during the year 2022-23	Violation of rule 11(1) of MCDR, 2017 has been pointed out
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal during the year 2022-23	No Top soil generation during the year 2022-23	None
5d	Total area fully reclaimed and rehabilitated	1.41 ha during the year 2022-23	0.36 hect area has been backfilled during the year 2022-23	Violation of rule 11(1) of MCDR, 2017 has been pointed out
5e	General remarks of inspecting officers on backfilling and reclamation etc.			During the year 2022-23 backfilling has not been carried out as per proposal for which Violation of rule 11(1) of MCDR 2017 has been pointed out

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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, it should be submitted up to 1st July for the previous financial year.	PMCP report for the year 2022-23 submitted on time.	None
6b	Area available for rehabilitation (ha) .	1.41 ha	0.36 ha	Violation of rule 11(1) of MCDR, 2017 has been pointed out
6c	afforestation done (ha).	1.0 ha	3.76 ha	None
6d	No. of saplings planted during the year	1000 saplings	5300 saplings	None
6e	Cumulative no .of plants	No specific proposal	55900	None
6f	Any other method of rehabilitation	Back filling of mined out pits	0.36 ha area of mined out pit has been backfilled during the year 2022-23	None
6g	Cost incurred on watch and care during the year	No specific proposal	Rs. 5.56 lakhs during the year 2022-23	None
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	1.41 ha	0.36 ha	Violation of rule 11(1) of MCDR, 2017 has been pointed out
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.41 ha	0.36 ha	Violation of rule 11(1) of MCDR, 2017 has been pointed out
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Not done during the year 2022-23	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable	None

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No specific proposal	No specific proposal except backfilling	None
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1.0 ha area with 1000 saplings	3.76 ha area with 5300 saplings	None
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0 ha	3.76 ha	None
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring(core & buffer zone) proposed	On quarterly basis monitoring is being carried out	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Except backfilling, PMCP compliances is mor or less staisfactory

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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 proposed	No grade wise sorting is being done	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Not applicable as there was no proposal	None
7c	Different grade of mineral sorted out at mines.	No proposal	Not applicable as there was no proposal	None

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7d	Any beneficiation process at mines	No proposal	Not applicable as there was no proposal	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue related to minerals conservation has been observed.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil generation proposed during the year 2022-23.	No top soil generated during the reporting year.	None
8b	Concurrent use or storage of topsoil	No top soil generation proposed during the year 2022-23.	No top soil generated during the reporting year.	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Two types of waste(Interburden & screen reject) are there and separately dumping proposal given	Separate dumps have been maintained for screen reject and waste rocks.	None
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed for backfilling of minedout pit	Used for backfilled minedout pit	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed to backfilled 1.41 ha of the mined out pit	0.36 ha of mined out pit has been backfilled during the year 2022-23	Violation of rule 11(1) of MCDR, 2017 has been pointed out

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2022-23 total 1000 nos. sapling proposed in 1.0 ha area	During the year 2022-23 total 5300 nos. sapling planted in 3.76 ha area	None
8g	Survival rate	90% Survival rate proposed	As per Annual Return 2022-23, the actual rate of survival is 85%	None
8h	Water sprinkling on roads to control airborne dust	Proposals are given	Water sprinkling on roads observed during inspection	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mines area is satisfactory.

#### 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, Monthly & Annual return is to be submitted.	Annual and Monthly returns are submitted on time	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information on Mining Engineer, Geologist & Manager given	Sh. Rajnish Bora, Mine Manager, Sh. Abhay Verma, Mining Engineer & Sh. Amit Sharma, Geologist.	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	adetails are given	1) Covered Under Current (o/c)Workings: 163.730 Ha 2) Used for waste Disposal: 109.850 Ha 3) Occupied by Plant, buildings, residential, welfare buildings & roads: 11.050Ha 4) Other Purpose 22.870Ha:	None
9d	Scrutiny of Annual return on afforestation	5300 sapling planted . The survival rate is 85%	Seems correct	None

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject below cut off and above threshold value	Seem Correct	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Information given in Part VI	Seems correct	None
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price of Rs. 275.14/- given in Part-VI & production cost of Rs.275.14/- given in part-VII of the return	Seems correct	None
9h	Scrutiny of Annual return on fixed assets	Fixed assets value of Rs. 171221410/- is given Part-IIA of the return	Seems correct	None
9k	Scrutiny of Annual return on mining machineries	Type of machineries used in mine is given in Part-V(6) of Annual Return	Seems correct	None

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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
MCDR17	Rule 11(1)	11-JAN-24			
	Rule 45(7)	11-JAN-24			

**Date :**

(Dr A Z Khan)

Indian Bureau of Mines