

**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 : **P022** ) **PANKAJ KULSHRESTHA**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Vishal Gupta, Mines Manager  
Official with  
Designation
- (iv) Date of Inspection : 10/01/2023
- (v) Prev.inspection date : 21/10/2021

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RAS-I (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 : 9001090719
- (f) Police Station : RAS
- (g) First opening date : 19/09/2003
- (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 : 28/12/2045
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 : Sandeep Singh  
 Ambuja Cement Limited  
 Rabadiyawas Jaitaran PALI  
 RAJASTHAN  
 Phone: 9001090758  
 FAX :

## Mining Engineer

Name : Rajendra Sunariya, Full Time  
 Qualification : BE Mining  
 Appointment/ : 09/11/2021  
 Termination date

## Mining Engineer

Name : Keshav Sharma, Full Time  
 Qualification : B.E. (Mining)  
 Appointment/ : 16/10/2021 08/11/2021  
 Termination date

## Geologist

Name : Santwana Sahu, Full Time  
 Qualification : M.Sc. (Geology)  
 Appointment/ : 01/08/2020  
 Termination date

## Geologist

Name : Amit Sharma, Full Time  
 Qualification : M Sc (Geology)  
 Appointment/ : 27/10/2014 22/07/2020  
 Termination date

## Manager

Name : Vishal Gupta  
 Qualification : BE (MINING)  
 Appointment/ : 16/06/2018  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Modif.of approved Mining Plan 19/12/2013  
 MP modif under 17(3) MCR 2016 03/11/2016

MP modif under 17(3) MCR 2016	07/06/2018
MP review under 17(1) MCR 2016	24/01/2022

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NA	No back log of previous year reported.	
1b	Exploration over lease area for geological axis 1 or 2	NA	No exploration carried out during the year as reported.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	Nil expenditure reported during the year.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil, as the entire area has already been explored.	
1e	Balance reserve as on 01/04/20	NA	128.32 Million Tons as on 01.04.2022 as reported.	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The overall status of geology and exploration may be considered as satisfactory.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	The location of development during the year 2021-22 is as given below : E423400- E423700/N2919500- E423700/N2919500- N2920000 +444 E2919800- E2920000/N423800- N423900 +428	The actual location of development during the year 2021-22 is as given below : E423400- E423700/N2919500 -N2920000 +491 E2919800- E2920000/N423800 -N423900 +421	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No OB.Only interburden.	No OB.Only interburden.	
2c	Stripping ratio or ore to OB ratio	1:0.26	1:0.001	

2d	Quantity of topsoil generation in m3	Nil	Nil, No top soil generated during the year as reported
2e	Quantity of overburden generation in m3	NA	No overburden generated during the year.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The development of pit w.r.t type of deposit may be considered as satisfactory.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	
3b	Quantity of ROM mineral production proposed	2800000 tons	263137 tons as reported in annual return for the year 2021-22	
3c	Recovery of sailable/usable mineral from ROM production	100 percent	Recovery of usable mineral reported as 100 %.	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NA	No sub grade generation reported.	
3g	Grade of sub grade mineral generation	NA	NA , as there is no sub grade generation in the mines as reported.	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised,Screen & wobbler installed.	Mechanised,Screen & wobbler installed for the purpose.	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No	No beneficiation study proposed for subgrade mineral and reject because there is no generation of the same as reported.
3j	Provision of drilling and blasting in mineral benches	Yes, there is provision of drilling and blasting in mineral benches.	Drilling and blasting in mineral benches is in practice.
3k	Provision of mining machineries in mineral benches	Yes, there is provision of machineries in mineral benches.	YES, following machineries deployed in mines Back Hoe Excavator - 3.50Cum M Drilling machine- 1 AtlasCopco Dumper/Tipper- 30 Tons Water - tanker
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 8 meter height proposed.	Yes ,the 8 meter height of bench is being maintained in the mines as reported.
3m	Total area covered under excavation/pits	21.27 Ha At the end of the planned period 2021-22	13.27 hectares as on 01/04/2022.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.30	1:0.001
3o	Total area put in use under different heads at the end of year	44.64 hectares at the end of 2021-22	27.61 hectares as on 01/04/2022 as reported.
3p	Production of ROM mineral during the last five year period as applicable	2016-17 : 279000 2017-18 : 279000 2018-19 : 279000 2019-20 : 1000000 2020-21 : 2000000 2021-22 : 2800000	The actual production of ROM mineral during the last five year period is as given below: 2016-17 : 237103 2017-18 : 278617 2018-19 : 242836 2019-20 : 155675 2020-21 : 199780 2021-22 : 263137 The production is low w.r.t. proposals due to absence of EC.

3q	General remarks of inspecting officers on method of mining etc.	NA	The actual production achieved during the last five year period is much less due to absence of EC as reported. However the method of mining may be considered as satisfactory.
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Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NA		The area is devoid of any as such top soil. However interburden is there for which separate dumping is being done.
4b	Location of topsoil, OB and mineral reject dumps	Top soil: Nil OB/IB : 02 Dumps Screen Reject : 01 Dump WD1: E423600- E423800/N29189 50- N2919150 1.65 WD2: E423750- E424000/N29190 50- N2919500 4.37 Screen reject no. 1 E423250- E423500/N29203 50- N2920600 2.70		In absence of expanded EC, as of now only one waste dump (OB/IB) exists as given below : WD1: Grid E 423600 to 423800 and N 2918950 to 2919150
4c	Number of dumps within lease area and outside of lease area	03 dumps within lease area .No dump is planned outside lease area.	01 (OB/IB dump )	observed in the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside ultimate pit limit.		All dumps are outside ultimate pit limit.
4e	Number of active and alive dumps.	Total 03 dumps were proposed.		Only one active dump observed in the area.
4f	Number of dead dumps.	NA		No dead dump observed in the lease area.
4g	Number of dumps established.	No Proposal	Nil	

4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes, partial retaining wall observed.
4i	Length of Retaining wall or garland drain all along dumps	150 m proposed.	Aprox 150 m observed in the area along the dump.
4j	Number of settling ponds	NA	Nil
4k	Specific comments of inspecting officer on waste dump management	NA	As there is no waste dump, an interburden dump observed, the status of waste dump management may be considered as satisfactory.

#### 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.	NA	Such stage not reached to start backfilling of mined out area.	
5b	Area under backfilling of mined out area	NA	Area under backfilling of mined out area is Nil.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	Nil, restoration or rehabilitation activities not commenced.	
5d	Total area fully reclaimed and rehabilitated	Nil	The area is not matured for reclamation or rehabilitation.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The lease area is not matured for reclamation or rehabilitation activities.	

#### 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).	Yes	Yes, submitted
6b	Area available for rehabilitation (ha) .	NA	No area available for rehabilitation.
6c	afforestation done (ha).	Yes, in One hectare	Afforestation reported in 3.0 hectares as on date of inspection.
6d	No. of saplings planted during the year	It was proposed to plant 1000 saplings during the year.	Total 7500 saplings planted during the year.
6e	Cumulative no .of plants	NA	The cumulative no. of plants is 21710.
6f	Any other method of rehabilitation	There was no proposal for rehabilitation	Nil, as there was no proposal for rehabilitation.
6g	Cost incurred on watch and care during the year	The proposed cost as reported is 2.2 L during the year.	The actual expenditure incurred on watch and care during the year 2021-22 is reported as 15.75 L.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NA	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	Nil, as there is no back filled area.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	Not applicable as there is no back filled area.

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	Not applicable as there is no backfilled area.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	Not applicable as no rehabilitation activity is going on.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	Not applicable as no rehabilitation is going on.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Regular monitoring is going on for various pollution levels with respect to air, water, noise etc. to ensure the standards laid down in this regard.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The status of compliance of PMCP may be considered as 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	ROM Mineral dispatch proposed.	ROM mineral without ggrade-wise sorting within lease area is being observed.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	No grade wise mineral sorting observed within the lease area.	

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7c	Different grade of mineral sorted out at mines.	NA	ROM is being dispatched without grading in mines.
7d	Any beneficiation process at mines	NA	No beneficiation process observed in mines.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The status of mineral conservaion may be considered as satisfactory.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	There is no top soil in the lease area.	
8b	Concurrent use or storage of topsoil	NA	Not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, separate dumping proposed.	Separate dumps observed during the inspection.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	Area is not matured for restoration to its original.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	The lease area is not matured for such phased restoration/ reclamation and rehabilitation of lands affected by mining operations.	

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	It was proposed to plant 1000 saplings.	Total 7500 saplings planted during the year 2021-22 with 85% survival.
8g	Survival rate	85%	85% survival rate achieved as reported.
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling on roads to control airborne dust observed during the inspection.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The status of aesthetic beauty in and around mines area may be considered as 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	The AR- 2021-22 was submitted on 2022-07-22 10:30:59.	Timely submission through online mode.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The information on Mining Engineer Geologist and Manager have been furnished in the AR- 2021-22. Manager Shri Vishal Gupta ,Mining Engineer in charge Shri Rajendra Sunaria and Geologist in charge Shri Santwana Sahu have been reported in the AR 2021-22.	The information on Mining Engineer Geologist and Manager furnished in the AR- 2021-22 is correct.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes, As per AR-2021-22 the area covered under current (O/C) Workings is 13.27 ha, Used for waste disposal : 0.660 ha, Occupied by plant, buildings, residential, welfare buildings & road : 5.4 ha and Other Purpose (Plantation) : 8.280 ha.	Yes, the area covered under current (O/C) Workings is 13.27 ha, Used for waste disposal plant, buildings, residential, welfare buildings & road : 5.4 ha and Other Purpose (Plantation) : 8.280 ha.
9d	Scrutiny of Annual return on afforestation	Total 8.280 ha has been reported as covered under plantation programme.	Aprox. 8.280 has been covered under afforestation programme. But the survival rate is very poor.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject generation reported in the AR 2021-22.	The information seems to be correct.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	263137 tonns of ROM has been reported as production during the period 2021-22 in AR -2021-22.	It seems to be correct.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	It is a captive mine therfor the Sale value is not applicable in the case. The Ex-mine price for Cement grade has been reported as Rs. 252.96 in the AR 2021-22.	It seems to be correct.

9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets in respect of the mine, mine work-shop, power and installation has been reported as Rs. 9495708 with Depreciation on fixed assets as Rs. 3182277 in the AR-2021-22	The information provided regarding fixed assets seems to be correct.
9k	Scrutiny of Annual return on mining machineries	One Back Hoe (3.2 cu.m.) , Fifteen Tippers (12 cu.m.) and one ROCK DRILL (NONELEC.)115.000 MM) have been shown in the AR 2021-22.	The information furnished in the AR 2021-22 regarding mining machineries seems to be correct.

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**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 :**

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines