

**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 : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Manoj Malvi, Mines Agent
Official with
Designation
- (iv) Date of Inspection : 21-OCT-21
- (v) Prev.inspection date : 12-JAN-21

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 : **9001090719**
- (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 : NEERAJ AKHOURY
 ACC LIMITED,CEMENT HOUSE
 121, MAHARSHI KARVE ROAD
 MUMBAI MUMBAI (SUBURBAN)
 MAHARASHTRA
 Phone: 02233024321
 FAX : 02266317407

Agent : Manoj Malvi
 P. O. Rabriyawas, Tehsil-
 Jaitaran, District Pali,
 Rajasthan PALI RAJASTHAN
 Phone: 90011090719
 FAX : 02939288030

Mining Engineer

Name : Keshav Sharma,Full Time
 Qualification : B.E.(Mining)
 Appointment/ : 16-OCT-21
 Termination date

Geologist

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

Geologist

Name : Amit Sharma,Full Time
 Qualification : M Sc (Geology)
 Appointment/ : 27-OCT-14 22-JUL-20
 Termination date

Manager

Name : Vishal Gupta
 Qualification : BE (MINING)
 Appointment/ : 16-JUN-18
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Modif.of approved Mining Plan 19-DEC-13
 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	No proposal during the previous year 2019-20.	None	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal during the year 2020-21.	None	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable as no proposal during the year 2020-21.	Not applicable	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	None	Entire lease area (183.53 Ha) has been converted into G-1 category.
1e	Balance reserve as on 01/04/20	As per approved document dated 24.12.2019, the position of reserve on 01.04.2019 was 330.119 million tonnes.	Balance reserve as on 01/04/21 124.58 million tonnes.	Nil
1f	General remarks of inspecting officers on geology, exploration etc			Entire lease area (183.53 Ha) has been converted into G-1 category

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E423400- E424000 / N2919700- N2920300	Mine Development has been carried out within proposed limit.	Nil

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil benches, Benches have been proposed in mineral zone along with intercalated waste.	Top soil has not been generated during the year. Benches have been maintained as per proposal in mineral.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.30	1:0.001	Nil
2d	Quantity of topsoil generation in m3	No proposal of top soil generation during the reporting year 2020-21.	No top soil generated during the year 2020-21.	Nil
2e	Quantity of overburden generation in m3	160000	221	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development of mine pit is satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Nil
3b	Quantity of ROM mineral production proposed	Year 2020-21: 2000000 tonnes	Year 2020-21: 199780 tonnes	Nil
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Nil
3d	Quantity of mineral reject generation	190000	None	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Less than Cao	34% Not applicable as no mineral reject generation during the year 2020-21	Nil

3f	Quantity of sub grade mineral generation.	No proposal	No subgrade generated during the year 2020-21	Nil
3g	Grade of sub grade mineral generation	Not applicable as no proposal	Not applicable.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	None	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	None	Nil
3j	Provision of drilling and blasting in mineral benches	Yes	Yes ,as per proposal	Nil
3k	Provision of mining machineries in mineral benches	Drilling machine, Excavator, Dumper and Water - tanker etc. have been proposed in mineral benches.	Drilling machine, Excavator, Dumper and Water - tanker etc. are being used in mineral benches.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	As per proposal	Nil
3m	Total area covered under excavation/pits	21.27 Ha area under excavation upto the year 2021-22 was proposed	12.39 Ha area under excavation was utilised during the year 2020-21	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.30	1:0.001	Nil

3o	Total area put in use under different heads at the end of year	It was proposed that total 44.64 ha area put in use under different heads at the end of the plan period i.e. 2021-22.	At the end of the year 2020-21, total 24.44 ha used under different heads.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 279000 tonnes 2017-18 : 279000 tonnes 2018-19: 279000 tonnes 2019-20 : 1000000 tonnes 2020-21: 2000000 tonnes.	2016-17: 237103 tonnes 2017-18 : 278617 tonnes 2018-19: 242836 tonnes 2019-20 : 155675 tonnes 2020-21: 199780 tonnes	Nil
3q	General remarks of inspecting officers on method of mining etc.	Opencast Mining Method was proposed	Opencast mechanised mining method is being used along with HEMM as per proposal.	Method of Mining is suitable to the deposit.

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 proposal during the year 2020-21. Mineral rejects and OB/IB dumping at separate place were proposed.	No top soil and Mineral rejects generated during the reporting year. OB/IB has been dumped at separate place.	Nil

4b	Location of topsoil, OB and mineral reject dumps	Top soil: No proposal OB/IB : 02 Dumps Screen Reject : 01 Dump WD1: E423600-E423800/N2918950-N2919150 1.65 WD2: E423750-E424000/N2919050-N2919500 4.37 Screen reject no. 1: E423250-E423500/N2920350-N2920600 2.70	WD1: Grid E 423600 to 423800 and N 2918950 to 2919150. No top soil and Mineral reject was generated during the reporting year.	Nil
4c	Number of dumps within lease area and outside of lease area	03 dumps within lease area were proposed . No dump is planned outside lease area.	01 (OB/IB dump) within mining lease area.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	All dumps proposed outside ultimate pit limit.	One waste dump outside ultimate pit	Nil
4e	Number of active and alive dumps.	03	01	Nil
4f	Number of dead dumps.	No proposal	None	Nil
4g	Number of dumps established.	No proposal	None	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	Nil
4i	Length of Retaining wall or garland drain all along dumps	400m along waste dump & 250m along mineral reject dump.	No mineral reject dump observed only one OB/IB dump was observed. Retaining wall & garland drain made along the down slope of waste dump.	Nil
4j	Number of settling ponds	No proposal	None	Nil

4k	Specific comments of inspecting officer on waste dump management	No issue was observed related to waste dump management.
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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 proposal	None	Nil
5b	Area under backfilling of mined out area	No proposal	None	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	No top soil generated during the year 2020-21	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal.	None	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of backfilling and reclamation.	No reclamtion & backfilling has been carried out.	The area is not 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).	As per rule 26(2) of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report for the year 2020-21 has not been submitted.	PMCP report 2020-21 has not been submitted. Hence, violation under rule 26(2) of MCDR 2017 has been issued vide letter dated 29.10.2021.
6b	Area available for rehabilitation (ha) .	1.0 hect.	1.0 hect.	Nil

6c	afforestation done (ha).	1.0 Ha.	1.0 Ha.	However during the year 2020-21, Plantation has not been carried out on proposed location.Hence violation of rule 11(1) of MCDR 2017 has been issued vide letter dated 29.10.2021.
6d	No. of saplings planted during the year	1000 Nos	1810 Nos	As reported in AR 2020-21.
6e	Cumulative no .of plants	No specific proposal.	11910nos (upto 31/03/2021).	Nil
6f	Any other method of rehabilitation	No proposal	Not applicable as no proposal	Nil
6g	Cost incurred on watch and care during the year	Year 2020-21: 1.80 Lakh	Year 2020-21: 6.69Lakh	As reported during the inspection.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	None	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	None	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	None	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	None	Nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	None	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1000 nos.	1810 nos.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0 hect.	1.0 hect.	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring proposed.	Regular monitoring is being carried out as per conditions of EC.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			(1)PMCP report 2020-21 has not been submitted.Hence, violation under rule 26(2) of MCDR 2017 has been issued vide letter dated 29.10.2021. (2)During the year 2020-21, Plantation has not been carried out on proposed location.Hence violation of rule 11(1) of MCDR 2017 has been issued vide letter dated 29.10.2021.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No gradewise sorting proposed all usable limestone will be dispatched to captive cement plant.	As per proposal	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise sorting proposal was given during reporting year.	None	Nil
7c	Different grade of mineral sorted out at mines.	Not applicable as no proposal.	Not applicable	Nil
7d	Any beneficiation process at mines	No proposal	None	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue observed related to mineral conservation.

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil generation proposal during the year 2020-21.	No top soil generated during the year 2020-21..	Nil
8b	Concurrent use or storage of topsoil	No proposal.	Not applicable as no generation of top soil during the year 2020-21	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate waste and Mineral reject dump were proposed.	No mineral reject generated during the year, only OB/IB waste generated during the year & dumped as per proposal.	Nil

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal given.	None	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal during the year.	None	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year, 1000 nos. plantation were proposed.	1810 nos. sapling planted during the year.	Nil
8g	Survival rate	No specific proposal	86%	Nil
8h	Water sprinkling on roads to control airborne dust	Regular sprinkling of water on haul roads was proposed.	Sprinkling of water on haul roads was observed.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The general aesthetic beauty is satisfactory in and around mines area.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, 2017 monthly and annual returns to be submitted.	Monthly returns upto Sept 2021 and Annual returns upto the year 2020-21 have been submitted timely.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information of Mining Engineer, Geologist and Manager have been furnished.	Details found to be correct	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mine pit area ~ 12.39 Ha Dump~ 0.66 Ha Infra(office/w eigh bridge)~ 2.85 Ha Others/ Plantation ~ 6.00 Ha etc.	Details seems to be correct.	Nil
9d	Scrutiny of Annual return on afforestation	Plantation within lease area -1810 nos	Details seems to be correct.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No Mineral reject generation during the year 2020-21.	Correct information given in AR.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM & Graded stock- Nil	Found correct.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production Cost Rs. 300.80 per tonne	Seems correct.	Nil
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets in Rs. 12677985	Seems correct.	Nil
9k	Scrutiny of Annual return on mining machineries	Details given in AR.	Seems correct.	Nil

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
MCDR17	Rule 11(1)	29-OCT-21			
MCDR17	Rule 11(4)	29-OCT-21			
MCDR17	Rule 26(2)	29-OCT-21			

Date :

(D R GURJAR)

Indian Bureau of Mines