

**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 : **K018**) **Dr A Z Khan**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Vishal Gupta, Mine Manager & Amit Sharma, Geologist
Official with
Designation
- (iv) Date of Inspection : 18-DEC-23
- (v) Prev.inspection date : 10-JAN-23

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-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** : **28-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 : Sandeep Singh
 Ambuja Cement Limited
 Rabadiyawas Jaitaran PALI
 RAJASTHAN
 Phone: 9001090758
 FAX :

Mining Engineer

Name : Rajendra Sunariya, Full Time
 Qualification : BE Mining
 Appointment/ : 09-NOV-21
 Termination date

Mining Engineer

Name : Keshav Sharma, Full Time
 Qualification : B.E. (Mining)
 Appointment/ : 16-OCT-21 08-NOV-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
MP review under 17(1) MCR 2016	24-JAN-22
MP modif under 17(3) MCR 2016	04-MAY-23

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	No back log of previous year reported	NIL
1b	Exploration over lease area for geological axis 1 or 2	04 Bore hole with 286m	No exploration carried out during the year as reported	Violation of rule 11(1) of MCDR, 2017 has been pointed out
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal	No exploration done during reporting year	Violation of rule 11(1) of MCDR, 2017 has been pointed out
1d	Balance area to be explored to bring Geological axis in 1 or 2	04 Bore hole with 286m	No exploration done during the reporting year	The entire area has already been explored to G1 level but some bore holes were terminated in limestone. To prove the depth continuity of limestone 04 bore holes were proposed
1e	Balance reserve as on 01/04/20	No yearwise specific proposal	128.088 milliion Reserve & 11.56 million resource	Nil
1f	General remarks of inspecting officers on geology, exploration etc		The entire area has already been explored to G1 level but some bore holes were terminated in limestone. To prove the depth continuity of limestone 04 bore holes were proposed.	Violation of rule 11(1) of MCDR,2017 has been pointed out for non complainece of exploration proposal.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N291437- N2920141, E423300- E423704 & N 2920206- N2920462, E423353- E423981	N 2919437- N 2920141 E 423300-E 423704 N 2920206- N 2920462 E 423353-E 423981	It was also observed that at places benches are not properly made and benches height also not maintained to 8 meter for which violation of ruel 11(1) of MCDR,2017 has been pointed out

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Top Soil & OB, proposal of benches given	There is no Top Soil & OB. Benches are not properly made and benches height also not maintained to 8 meter.	Violation of rule 11(1) of MCDR,2017 has been pointed out
2c	Stripping ratio or ore to OB ratio	1:0.04	1:0.02	Nil
2d	Quantity of topsoil generation in m3	No Proposal	No Top soil generation during the reporting year	Nil
2e	Quantity of overburden generation in m3	No proposal for OB. Proposal of Waste(Inter Burden) generation of 62856 tonne (23280 m3)	There is no OB. Waste(Inter Burden) generated during the year is 4884 tonne(1809 m3)	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The development/excavation has not been carried out as per the approved proposal. It was also observed that at places benches are not properly made and benches height also not maintained to 8 meter.	Violation of rule 11(1) of MCDR,2017 has been pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	Nil
3b	Quantity of ROM mineral production proposed	14,13,775 tonne	2,61,685 tonne	Due to want of inhanced EC
3c	Recovery of sailable/usable mineral from ROM production	1201709 tonne	227585 tonne	Nil
3d	Quantity of mineral reject generation	212066.25 tonne	34100.00 tonne	None
3e	Grade of mineral rejects generation and threshold value declared.	CaO<34	CaO<34	None

3f	Quantity of sub grade mineral generation.	No proposal	Nil	None
3g	Grade of sub grade mineral generation	No proposal	No subgrade generation	None
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised, Screen & wobbler proposed	Mechanised Screen & wobbler installed	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No beneficiation study proposed for subgrade mineral and reject	None
3j	Provision of drilling and blasting in mineral benches	There is provision of drilling and blasting in mineral benches	Drilling and blasting in mineral benches is in practice.	None
3k	Provision of mining machineries in mineral benches	There is provision of machineries in mineral benches	Back Hoe Excavator - 3.50 Cum M Drilling machine- 1 Atlas Copco Dumper/Tipper- 30 Tons Water - tanker observed in mine	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	There is no OB. 8.0 meter bench height proposed in mineral benches	At places benches are not properly made and benches 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	18.55 ha	13.93 ha	None
3n	Ore to OB ratio for the pit/mine during the year.	1:.04	1:.02	None
3o	Total area put in use under different heads at the end of year	25.95 ha	23.49 ha	None

3p	Production of ROM mineral during the last five year period as applicable	2018-2019: 279000 2019- 2020:1000000 2020-2021: 2000000 2021-2022: 2800000 2022- 2023:1413775	2018-19:242836 2019-20:155675 2020-21:199780 2021-22:263137 2022-23: 261685	Production was not as per planning due to delay in EC
3q	General remarks of inspecting officers on method of mining etc.			The actual production achieved during the last five year period is much less due to delay in grant of EC as reported. However the method of mining may be considered as satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal for Soil. Proposal for OB/IB dumping on WD-2 between N2919225-N2919317 & E 423937-E424007	There is no top soil generation during the reporting year. IB generated has been dumped on waste dump WD1 between Grid E 423600-E423800 & N 2918950- 2919150	Violation of rule 11(1) of MCDR,2017 has been pointed out
4b	Location of topsoil, OB and mineral reject dumps	No proposal for Top soil OB/IB : on WD-2 between N2919225-N2919317 & E 423937-E424007 Screen Reject : 01 Dump between E423250-E423500/N2920350-N2920600	No top soil & mineral reject generation. IB generated has been dumped on waste dump WD1 between Grid E 423600-E423800 & N 2918950- 2919150	Violation of rule 11(1) of MCDR,2017 has been pointed out

4c	Number of dumps within lease area and outside of lease area	03 dumps within lease area (02 OB/IB & 1 Screen Reject) No dump proposed outside lease area.	01 (OB/IB dump) inside the lease area	None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	All dumps are proposed outside ultimate pit limit	Only 01 dump (OB/IB) is outside UPL	None
4e	Number of active and alive dumps.	03 dumps within lease area (02 OB/IB & 1 Screen Reject)	Only 01 dump(OB/IB) is there, which active.	None
4f	Number of dead dumps.	No proposal	There is no dead dump	None
4g	Number of dumps established.	No proposal	Not applicable as there is no dead dump.	None
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes retaining wall & garland drain observed around the waste dump.	None
4i	Length of Retaining wall or garland drain all along dumps	144m around OB/IB dump	Length of Retaining wall & Garland drain was about 150 m	None
4j	Number of settling ponds	No proposal	No settling pond observed	None
4k	Specific comments of inspecting officer on waste dump management		Waste dump management has not been carried out as per approved proposal the IB has been dumped on waste dump WD1 between Grid E 423600-E423800 & N 2918950-2919150 against the proposed location of dumps WD-2 between N2919225-N2919317 & E 423937-E424007 and the waste not properly spread over dumps and at places terracing also not found.	Violation of rule 11(1) of MCDR,2017 has been pointed out.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal	The pit is not matured for reclamation or rehabilitation activities	None
5b	Area under backfilling of mined out area	No proposal	The area under backfilling of mined out area is NIL, because the Pit is not matured for reclamation or rehabilitation activities	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	The pit is not matured for reclamation or rehabilitation activities	None
5d	Total area fully reclaimed and rehabilitated	No proposal	The pit is active & the lease area is not matured for reclamation or rehabilitation activities	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The pit is active and the lease area is not matured for backfilling & reclamation activities	

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) .	No proposal	NA as there was no proposal	None
6c	afforestation done (ha).	1.0 ha area	Afforestation done in about 1.5 ha area	None
6d	No. of saplings planted during the year	1000 sapling	1500 sapling planted	None
6e	Cumulative no .of plants	No specific proposal	As per PMCP report 23210 plants exist in the lease.	None

6f	Any other method of rehabilitation	No proposal	None	NA
6g	Cost incurred on watch and care during the year	2.0 lakh	2.92 lakh	None
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Not applicable. Pit is not mature for backfilling	None
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable. Pit is not mature for backfilling	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Not applicable. Pit is not mature for backfilling	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable. Pit is not mature for backfilling	None
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Not applicable. Pit is not mature for backfilling	None
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Not applicable as there was no proposal	None
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Not applicable as there was no proposal	None

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Not applicable as there was no proposal	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes, on quarterly basis	Yes, on quarterly basis monitoring is being carried out	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance is staisfactory.

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	None
7c	Different grade of mineral sorted out at mines.	No proposal	Not applicable	None
7d	Any beneficiation process at mines	No proposal	Not applcable	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue observed related to minerals conservation

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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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 proposal	No top soil generation during the year 2022-23	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, two types of waste (Interburden & screen reject) are there and separately dumping proposal given	There is only one dump of OB/IB. No screen reject generation.	None
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not applicable	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	The pit & dump are no matured for recalamtion & rehabilitation	None
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2022-23 total 1000 nos. sapling proposed.	During the year 2022-23 total 1500 nos. sapling planted.	None
8g	Survival rate	70%	85%	None
8h	Water sprinkling on roads to control airborne dust	Yes, proposal is there	Water sprinkling on roads to control airborne dust observed during the inspection	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty is satisfactory in and around mines area.	

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	Sh. Vishal Gupta, Mine Manager, Sh. Rajendra Sunariya, Mining Engineer & Sh. Satwana Sahu, Geologist.	Details are correct.	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1) Covered Under Current (o/c)Workings: 13.93 Ha 2) Used for waste Disposal: 0.66 Ha 3) Occupied by Plant, buildings, residential, welfare buildings & roads: 0.620Ha 4) Other Purpose (Plantation) : 8.280	Seems corrected	None
9d	Scrutiny of Annual return on afforestation	1500 tree planted	Plantation figure was given for the year 2021-22. After issue of Show Cause Notice it has been corrected	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject generation reported in the AR 2022-23	Seems correct	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	227585 tonne of ROM production has been reported in AR -2022-23	Seems correct	None

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. 262.50 in the AR 2021-22.	Seems correct	None
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. 6158155 with Depreciation on fixed assets as Rs. 3268253	Seems correct	None
9k	Scrutiny of Annual return on mining machineries	One Back Hoe (3.2 cu.m.) , Ten Tippers (12 cu.m.) and one ROCK DRILL (NONELEC.)115.000 MM) have been shown in the AR 2022-23	Seems correct	None

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