

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/BND-01/LST-1

Mine code : 38RAJ08002

- (i) Name of the Inspecting : **P022**) **PANKAJ KULSHRESTHA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Ajay Kumar Shreivastav, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 19/01/2024
- (v) Prev.inspection date : 16/12/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **LAKHERI**
- (b) **Registration NO.** : **IBM/256/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **RAJASTHAN**
- District : **BUNDI**
- Village : **LAKHERI**
- Taluka : **INDERGARH**
- Post office : **LAKHERI**
- Pin Code : **323603**
- FAX No. : **07438-261504**
- E-mail : **suresh.wandhare@acclimited**
- Phone : **07438-261642**
- (f) **Police Station** : **Lakheri**
- (g) **First opening date** : **01/12/1913**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondence** : **Associated Cement Copany Ltd.**
Lakheri Cement Works, P.O.Lakheri
Dist:- Bundi,Rajasthan, Pin-323603
3. (a) **Lease Number** : **RAJ0003**
- (b) **Lease area** : **137.68**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **12/04/1999**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : ASSOCIATED CEMENT CO. LTD.
 LAKHERI CEMENT WORKS PO
 LAKHERI-323603 BUNDI
 RAJASTHAN
 Phone:
 FAX :

Owner : Sridhar Balakrishnan
 Cement House,121, M K Road,
 Mumbai, Maharashtra-400020
 BUNDI RAJASTHAN
 Phone: 022-22836672
 FAX : 022-22836672

Agent : Suresh Dubey
 Lakheri Cement Works,
 Lakheri, Dist. Bundi,
 Rajasthan BUNDI RAJASTHAN
 Phone: 07438-261642
 FAX : 07438-261642

Mining Engineer

Name : Deepal Gorasia, Full Time
 Qualification : B E Mining & FCC
 Appointment/ : 12/03/2014
 Termination date

Geologist

Name : N. K. Pandey, Full Time
 Qualification : M Sc Geology
 Appointment/ : 10/03/2013
 Termination date

Manager

Name : Ajay Kumar Shrivastava
 Qualification : B E (mining)
 Appointment/ : 05/03/2014
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	16/08/1990
		Mining Scheme rule 12 MCDR1988	13/11/1995
		Renewal under rule 22 MCR1960	13/11/2000
		Renewal under rule 22 MCR1960	03/06/2005
		Mining Scheme rule 12 MCDR1988	31/05/2010
		Mining Scheme rule 12 MCDR1988	12/08/2015
		MP modif under 17(3) MCR 2016	21/07/2017
		Modif.of approved Mining Plan	20/11/2018
		MP review under 17(1) MCR 2016	22/01/2020
		MP modif under 17(3) MCR 2016	08/12/2020
		MP modif under 17(3) MCR 2016	23/12/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	It was proposed to put 52 bore holes during the year 2022-23.	Nil,	Violation letter issued in this regard
1b	Exploration over lease area for geological axis 1 or 2	52 bore holes proposed during the year 2022-23.	Nil.G2 category boreholes were not drilled due to RTR issue & local issues.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	Nil during the year 2022-23.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	NA	
1e	Balance reserve as on 01/04/20	12.9 million tonnes	11.91 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The over all 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	P3 Lower (upto 220 mrl), P3 Upper (upto 247 mrl), Utarana (upto 226 mrl), Sakoda (upto 210 mrl)	P3 Lower (upto 220 mrl), P3 Upper (upto 247 mrl), Utarana (upto 226 mrl), Sakoda (upto 210 mrl)	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Nil	Nil	
2c	Stripping ratio or ore to OB ratio	1:1.5	1:1.6	
2d	Quantity of topsoil generation in m3	Nil	Nil	

2e	Quantity of overburden generation in m3	904380 T	811854 T	Less Development due to less production
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The overall status of development of pit w.r.t type of inspection may be considered as satisfactory.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	5 pits	5 pits	
3b	Quantity of ROM mineral production proposed	1300000 T	995371 T	
3c	Recovery of sailable/usable mineral from ROM production	100 %	1000 %	
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.	Nil	Nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	

3j	Provision of drilling and blasting in mineral benches	Yes	Yes, Blast holes of 115 mm dia are drilled as per bench height.
3k	Provision of mining machineries in mineral benches	Yes	Yes
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes , 6-9 mtrs	6-9 mtrs
3m	Total area covered under excavation/pits	10.06 hec	2.86 hec
3n	Ore to OB ratio for the pit/mine during the year.	1:1.5	1:1.6
3o	Total area put in use under different heads at the end of year	14.64 hec.	6.64 hec.
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 1158245 2019-20: 1202330 2020-21:1372831 2021-22: 1499623 2022-23: 1300000	2018-19: 1157250.7 2019-20: 1158926.7 2020-21:1041272 2021-22: 1070677 2022-23: 995371
3q	General remarks of inspecting officers on method of mining etc.	NA	The present status of 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)	904380 T	811854 T	

4b	Location of topsoil, OB and mineral reject dumps	Sakhoda, ML1 to ML7, ML72 To ML75, ML88 to ML94	Sakhoda, ML1 to ML7, ML72 To ML75
4c	Number of dumps within lease area and outside of lease area	Proposed dumping Ground within the lease area (03)	03 nos of Dump Proposed in Sakoda-01, Utrana-01 Gendoli-01
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Sakhoda, ML1 to ML7, ML72 To ML75, ML88 to ML94	Sakhoda, ML1 to ML7, ML72 To ML75,
4e	Number of active and alive dumps.	10	10, 03 nos new dump added with 07 nos alive dump
4f	Number of dead dumps.	40	40
4g	Number of dumps established.	40	40
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes
4i	Length of Retaining wall or garland drain all along dumps	60m	100 m
4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	NA	The overall 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.	153.68	153.06	
5b	Area under backfilling of mined out area	1.9 ha	0.73 Ha	Due to less OB handling

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil, no such proposal	Nil
5d	Total area fully reclaimed and rehabilitated	12.9 Ha	8 Ha
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The overall status of backfilling and reclamation may be considered as satisfactory.

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	Yes	
6b	Area available for rehabilitation (ha) .	NA	Nil	
6c	afforestation done (ha).	6.0 hecets.	10 hecets.	
6d	No. of saplings planted during the year	20000 Nos.	25000 Nos.	
6e	Cumulative no .of plants	700000 Nos.	646087 Nos.	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	18 Lac	27 Lac	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	Nil	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	10000 Nos.	10000 Nos.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	4 hectcs.	4 hectcs.
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)	Yes	Yes, monitoring is being doen in core and buffer zone.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The overall status of PMCP Compliance and progressive closure operations may be considered as satisfactory.
----	---	----	---

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1300000 T	995371 T	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Cement Grade	Cement Grade	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The overall status of mineral conservation and beneficiation may be considered as satisfactory.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	
8b	Concurrent use or storage of topsoil	Nil	Nil	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	As per proposal
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	1/3 rd of the mined out land	1/3 rd of the mined out land
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	Yes, Plantation has been done as in accordance.
8g	Survival rate	Survival rate 85%	Survival rate 85%
8h	Water sprinkling on roads to control airborne dust	Yes	Yes, a water tanker has been deployed for the purpose.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The present status of aesthetic beauty in and around mines area may be considered as satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Yes	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager : Shri Ajay Kumar Shrivastava MIning Engineer : Shri Deepal Gorasia, Geologist : Shri Satyanjay Chaturvedi	As above
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings : 163.740 Hect., Reclaimed-rehabilitated: 84.260 Used for waste disposal: 66.760 Occupied by plant, buildings, residential, welfare buildings and roads : 34.540 hecets.	As above.
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year 2022-23 : 24200 (WML), 800 (OML), Total no. of trees at the end of the year 2022-23 : 350000 (WML), 296087 (OML)	As above
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	OVERBURDEN AND WASTE : 811854 Cu.M.	As above
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM generated during the year 2022-23 : 995371.000	As above
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	It is a captive mine. No sale price reported. Cost of production reported as Rs. 276.28.	As above.

9h	Scrutiny of Annual return on fixed assets	At the beginning of the year Rs.502889894 and Net closing Balance at the end of year 2022-23 reported as Rs. 464563354	As above.
9k	Scrutiny of Annual return on mining machineries	Back Hoe-2, Shovel-4 , Dumper- 8, Dozer-1, Drill- 2, Water Tanker- 1, Explosive Van-1 and Other-1	As above.

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)	20/03/2024			

Date :

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines