

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : **26**) **Nishant kumar rao**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh Deepal Gorasia Mines manager ,Sh Rushikesh Geolog
Official with
Designation
- (iv) Date of Inspection : 21-OCT-24
- (v) Prev.inspection date : 10-OCT-18

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-DEC-13
- (h) Weekly day of rest : SUN
2. Address for : Associated Cement Copany Ltd.
correspondance 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-APR-99
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 : NEERAJ AKHOURY
ACC LIMITED, CEMENT HOUSE
121, MAHARSHI KARVE ROAD
MUMBAI MUMBAI (SUBURBAN)
MAHARASHTRA
Phone: 02233024321
FAX : 02266317407

Agent : Manoj Jindal
Director (Plant), ACC
Limited, Lakheri Cement
works, Lakheri, Bundi, Pin
Code- 323603 BUNDI
RAJASTHAN
Phone: 07438-261642
FAX : 07438-261504

Mining Engineer

Name : Deepal Gorasia, Full Time
Qualification : B E Mining & FCC
Appointment/ : 12-MAR-14
Termination date

Geologist

Name : N. K. Pandey, Full Time
Qualification : M Sc Geology
Appointment/ : 10-MAR-13
Termination date

Manager

Name : Suresh M Wandhare
Qualification : B. E. Mining
Appointment/ : 05-MAR-14
Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	16-AUG-90
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	13-NOV-95
		Renewal under rule 22 MCR1960	13-NOV-00
		Renewal under rule 22 MCR1960	03-JUN-05
		Mining Scheme rule 12 MCDR1988	31-MAY-10
		Mining Scheme rule 12 MCDR1988	12-AUG-15
		MP modif under 17(3) MCR 2016	21-JUL-17
		Modif.of approved Mining Plan	20-NOV-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	24	nIL	deviation pointed out to lesee
1b	Exploration over lease area for geological axis 1 or 2	24 borehole	0	deviation point out to lesee
1c	Exploration Agencies and Expenditure in lakh rupees during the year	nil	nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	28	0	deviation point out to lesee
1e	Balance reserve as on 01/04/20	12.9 million ton	11.91 million ton	
1f	General remarks of inspecting officers on geology, exploration etc			Violation for not carried out exploration was given

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	P3 Lower (upto 240mrl), P3 Upper (upto 220mrl),Utarana (upto 220mrl),Utarana (upto 220mrl), Sakoda (upto 210 mrl)	P3 Lower (upto 240mrl), P3 Upper (upto 220mrl),Utarana (upto 220mrl), Sakoda (upto 210 mrl)	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	nil	nil	
2c	Stripping ratio or ore to OB ratio	0.91	1:1.6	
2d	Quantity of topsoil generation in m3	nil	nil	
2e	Quantity of overburden generation in m3	592944	724273	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	deviation point out for strip ration ,quantity of OB
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	5	5	ok
3b	Quantity of ROM mineral production proposed	1300000 t	883415 t	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	nil	nil	
3e	Grade of mineral rejects generation and threshold value declared.	34% CaO	34% CaO	
3f	Quantity of sub grade mineral generation.	nil	nil	
3g	Grade of sub grade mineral generation	nil	nil	
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	Blast holes of 115 mm dia are drilled as per bench height	Blast holes of 115 mm dia are drilled as per bench height	-

3k	Provision of mining machineries in mineral benches	Shovel dumper combination	Shovel dumper combination	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes , 6-9 mtrs	Yes , 6-9 mtrs	-
3m	Total area covered under excavation/pits	6.39 Ha	2.71 ha	
3n	Ore to OB ratio for the pit/mine during the year.	0.91	1:1.6	
3o	Total area put in use under different heads at the end of year	10.09ha	3.25 ha	
3p	Production of ROM mineral during the last five year period as applicable	2019-20: 1202330T 2020-21: 1372831 T 2021-22: 1499623 T 2022-23: 1300000 T 2023-24: 1300000 T	2019-20: 1158926.7T 2020-21: 1041272 T 2021-22: 1070677 T 2022-23: 995371 T 2023-24: 883415 T	
3q	General remarks of inspecting officers on method of mining etc.			Deviation point out for lesser production

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	592944 cub mtr	724273 cub mtr	
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	deviation point out

4c	Number of dumps within lease area and outside of lease area	Proposed dumping Ground within the lease area (03)	3	-
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	-
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	300 mtr	300 mtr	
4j	Number of settling ponds	na	na	
4k	Specific comments of inspecting officer on waste dump management			ok

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.	163.74	160.31 ha	
5b	Area under backfilling of mined out area	0.12 ha	2.7 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	nil	nil	

5d	Total area fully reclaimed and rehabilitated	nil	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			-

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	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) .	-	-	
6c	afforestation done (ha).	6ha	6 ha	
6d	No. of saplings planted during the year	20000	24950	
6e	Cumulative no .of plants	700000	671037	
6f	Any other method of rehabilitation	na	na	
6g	Cost incurred on watch and care during the year	18 lacs	27 lacs	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	nil	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 on backfilled area	nil	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	na	na
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	na	na
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	plantation	plantation
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	nil	nil
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 done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		-

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	1300000	883415 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		-

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	yes	yes	

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)	-	-	
8g	Survival rate	85 %	85 %	
8h	Water sprinkling on roads to control airborne dust	yes	available	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			due to geographic condition ,many pit were being made .Deviation pointed out for backfilling

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	submitted	ok
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer, Geologist and Manager appointed as per Rules	Mining Engineer, Geologist and Manager appointed as per Rules	ok
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits- 160.3100Ha Reclaimed area- 0 Ha Dumps- 67.3 Ha	Area under pits- 160.3100Ha Reclaimed area- 0 Ha Dumps- 67.3 Ha	
9d	Scrutiny of Annual return on afforestation	No of trees planted during the year- 24950	No of trees planted during the year- 24950	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil	nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	nil	nil	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value - NA (for captive use) Ex Mine Price- Rs. 437 per Tn	ok	-
9h	Scrutiny of Annual return on fixed assets	yes	available	
9k	Scrutiny of Annual return on mining machineries	1.3 nos. of Hyd. shovel (bucket capacity 2.8 m3, 4.5 m3, 4.5 m3) 2.1 nos. of dumpers with capacity 40 Tns and 4nos with 50 Tns. 3.2 Nos of Drill machine 4. Wobbler with 400 TPH capacity. 5. Dozer-1, 450 HP 6. Water tanker-1, 10000 Ltr. 7. Explosive Van-1, 7Tns.	ok	deviation point out to lesee

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

Date :

(Nishant kumar rao)

Indian Bureau of Mines