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 : SQ12) Sharma H.C.

Officer and ID No.

(ii) Designation : Sr. Asst. Contrl. Mines

(iii) Accompaning mine : Sh. Ajay Shrivastava DGM(Mines), Sh. N. K. Pandey, Ge

Official with Designation

(v)

(iv) Date of Inspection : 03-DEC-19

Prev.inspection date : 10-OCT-18

PART-I : GENERAL INFORMATION

(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 : 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-MAR-14

Termination date

Geologist

Name : N. K. Pandey, Full Time

Qualification : M Sc Geology Appointment/ : 10-MAR-13

Termination date

Manager

Name : Ajay Kumar Shrivastava

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	762 m by drilling 24 boreholes on 200 X 200 m grid interval	762 m by drilling 24 boreholes on 200 X 200 grid interval during 2018-19.	m
1b	Exploration over lease area for geological axis 1 or 2	Exploration propsed in G 3 area of 250 ha by drilling 50 nos of Bore holes in the year 2020-21 in non forest area.	Not applicable as it is for 2018-19	3
1c	Exploration Agencies and Expenditure in lakh rupees during the year	DSS Infra and Geotechnic Srvices, Kolhapur, Expenditure not specified for exploration during 2020-21.	Not applicable as it is the 2018-19	3
1d	Balance area to be explored to bring Geological axis in 1 or 2	250 ha under G 3 in non forest land & 303.6 under G 3 in forest land	250 ha under G 3 in nor forest land & 303.6 under G 3 in forest lar	
1e	Balance reserve as on 01/04/20	Not specified	114.27 Lakh Tonnes as c 1/4/2019.	on
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	No issue regarding exploration in the mine	÷.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks

2a	Location of development w.r.t.lease area	00 to ML-5 (RL 256 - RL220),	P 3 Lower ML- 00 to ML-5 (RL 256 - RL222), P 3 Upper ML- 2 to ML- 3 (RL- 274- RL 252), Utrana- ML 72 - ML74 (RL 253- 231), Sakhoda (RL 225- RL 215) mRL	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	YEs	
2c	Stripping ratio or ore to OB ratio	1 : 1.57	1 : 1.20	The less proporational development in O/B proposed to be pointed out as Violation of rule 11 (1).
2d	Quantity of topsoil generation in m3	No top Soil excavation proposed.	Nil	
2e	Quantity of overburden generation in m3	1821637.1 T	1391054 Т	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The less proporational development in O/B proposed to be pointed out as Violation of rule 11 (1).	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Four	Four	
3b	Quantity of ROM mineral production proposed	11582457 T	1157250.7 T	
3с	Recovery of sailable/usable mineral from ROM production	100 %	100 %	

3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	No proposal	Not applicable	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanized	Wobler Plant
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	
3j	Provision of drilling and blasting in mineral benches	Three drills of 115 mm dia & blasting using ANFO & Slurry explosives	Three drills of 115 mm dia & blasting using ANFO & Slurry explosives	
3k	Provision of mining machineries in mineral benches	3 nos shovel of bucket capacity of 2.8 Cu M & 4.5 Cu M, 4 dumpers of 40 T & 2 dumpers of 50 T, one dozer & one wobler of 400 TPH capacity	Being done	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	133.2 ha	137.2 ha	

3n	Ore to OB ratio for the pit/mine during the year.	1: 1.57	1:1.2
30	Total area put in use under different heads at the end of year	Under mining 133.2 ha, waste dumping- 30.43 ha, Water reservoir- 30.43 ha, Roads- 11.5 ha, Railways- 22.94 ha, Infrastructure - 30.2 ha	Under mining 137.2 ha, waste dumping- 35.73 ha, Water reservoir- 30.43 ha, Roads- 11.5 ha, Railways- 22.94 ha, Infrastructure- 30.2 ha
3p	Production of ROM mineral during the last five year period as applicable	2014-15- 1071840 T, 2015-16- 1020000 T, 2016-17- 1020000 T, 2017-18- 1000000 T, 2018-19- 1158245 T	2014-15- 613872 T, 2015- 16- 584773 T, 2016-17- 791582.6 T, 2017-18- 807761 T, 2018-19- 1157250.7 T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The opencast method with use of HEMM has been used for carrying out the mining operations in the lease area which is suitable to the type of deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	for top soil	Nil for top soil, waste dumped separately.	
4b		Lower series ML 70 & P 3	As per proposal	
4c	Number of dumps within lease area and outside of lease area	22	22	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Out side UPL	

4e	Number of active and alive dumps.	02	02	
4f	Number of dead dumps.	20	20	
4g	Number of dumps established.	20	20	The dumps had been stabilized by spreading seeds of Babool but retaining wall required has not been provided in all the dumps.
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	No proposal	Not applicable	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	Not applicable	The dumps had been stabilized by spreading seeds of Babool but retaining wall required has not been provided in all the dumps.	

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.	area proposed to be	After full extraction, one third of area is backfilled.	
5b	Area under backfilling of mined out area	13.8 ha	5.63 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Not applicable	
5d	Total area fully reclaimed and rehabilitated	1.0 ha	1.0 ha	

General remarks Not applicable The work of backfilling of inspecting was progressing as per officers on proposal. backfilling and reclamation etc.

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 as per rule	The annual report for the year 2018-19 required to be submitted before 1 July 2019 has not been submitted.	The Violation of rule 26 (2) proposed to be pointed out for it.
6b	Area available for rehabilitation (ha) .	8.0	1. ha (Pits of Lower series are partialy backfilled & plantation done & parly converted in to water reservoir)	
6c	afforestation done (ha).	2.0 ha	2.0 ha	
6d	No. of saplings planted during the year	25000 nos	15000 nos	
6e	Cumulative no .of plants	No specfied proposal	Not applicable	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	Not specified	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	P 3- 12 ha, Sakoda- 1.3 ha & utarana 0.5 ha	P 3- 5.33 ha, Sakoda- 0.3 ha & Utarana 0.03 ha	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	One third of excavated area	Approximately one third of excavated area	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	2.0 ha	2.0 ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not specified	Approximately two third of excavated area left for water reservoir.
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2 ha per year	2 ha
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	2 ha during 2018-19	1 ha
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation & water reservoir	Plantation & water reservoir
бр	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The annual report for the year 2018-19 required to be submitted before 1 July 2019 has not been submitted, for which Violation of rule 26(2) is being pointed out.

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1158245 Т	1157250 Т	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines.	Cement grade	Cement grade	
7d	Any beneficiation process at mines .	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	No issue regarding mineral conservation in the mine.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	excavation	Not applicable	
8b	Concurrent use or storage of topsoil	Not applicable	Not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumps of waste proposed.	Being done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	One third of mined out area backfilled.	As per proposals.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No spevific proposal	Not applicable
8g	Survival rate	85 %	90 %.
8h	Water sprinkling on roads to control airborne dust	Yes	Yes
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	Aesthatic beauty was satisfactory in & around mine

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not applicable	The M/R submitted November 2019. The A/R submitted 2018-19.	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Found in order	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Found in order	
9d	Scrutiny of Annual return on afforestation	Given	Found in order	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject generation- NIl	found in order
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Found in order
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		During 2018-19 a total of Rs. 210998505 had been expensed to raise a production of 1157250.70 T, there by the cost of production come about Rs 182.32 per tonne, which has been stated as Rs 314.30 per tonne. The correct information has not been furnished in the annual return of the year 2018-19.
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets given but its depriciation during the year stated as Nil.	The old buildings & plants may require maintainance thus it cannot be NIL completely.
9k 	Scrutiny of Annual return on mining machineries	Details given	Found in order

PAGE : 13

Details of violat	cions observed during current in design out	nspection and	compliance position of
Viola	tion observed	Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date : (Sharma H.C.)

Indian Bureau of Mines