INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/NGR-13/LST-1 Mine code : 38RAJ20001

(i) Name of the Inspecting : SQ12) Sharma H.C.

Officer and ID No.

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

(iii) Accompaning mine : Sh. Satish Rathod, Sh Jakir, Surveyor

Official with Designation

(iv) Date of Inspection : 30-NOV-19
(v) Prev.inspection date : 16-FEB-18

PART-I : GENERAL INFORMATION

. (a) Mine Name : GAGARANA

(b) Registration NO. : IBM/7378/2011

(e) Postal address

State : RAJASTHAN
District : NAGAUR
Village : GAGARANA
Taluka : MERTA CITY
Post office : GAGARANA
Pin Code : 341510

FAX No. : 0744-2500178

E-mail : mclmorak@kappa.net.in Phone : 07459-232237, 01590-230614

(f) Police Station : Gotan

(g) First opening date : 26-MAR-87

(h) Weekly day of rest : MON

2. Address for : Mangalam Cement Ltd.

correspondance SUB-POST PFFICE - GAGRANA (PO: MERTA CITY)

District- Nagaur.

3. (a) Lease Number : RAJ1487 (b) Lease area : 200 (c) Period of lease : 50

(d) Date of Expiry : 21-OCT-32

4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : MANGLAM CEMENTS LIMITED

ADITYA NAGER -326517 PO-

MORAK DISTT-KOTA KOTA

RAJASTHAN

Phone:)7459)44237,44262

FAX :

Owner : K. C. Jain

Mangalam Cement Ltd. P. O. Adityanagar, Morak, Distt.

Kota KOTA RAJASTHAN

Phone:

FAX : 07459232156

Agent : S.B.Sharma

Mangalam cement Ltd Aditya Nagar Morak KOTA RAJASTHAN

Phone: 07459232262 FAX : 07459232231

Mining Engineer

Name : Satish Ratod, Full Time

Qualification : B. E. Mining Appointment/ : 21-FEB-14

Termination date

Geologist

Name : Sudanshu Pandey, Full Time

Qualification : M Sc (geo)
Appointment/ : 20-MAR-17

Termination date

Manager

Name : Gopal Prajapati

Qualification : Foreman Certificate Holder

Appointment/ : 20-JAN-12

Termination date

6. Date of approval of Mining Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 13-JAN-03
Modif.approved Mining Scheme 06-JUL-05
Mining Scheme rule 12 MCDR1988 02-FEB-07
Mining Scheme rule 12 MCDR1988 19-JUL-13
MP review under 17(1) MCR 2016 22-MAR-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	A Toatal of 5 DTH boreholes to a meterage of 75 m during 2018- 19 & 5 DTH bore holes to a materage of 75m were proposed during 2019- 2020.	5 DTH holes drilled so far to a meterage of 84 so far.	m
1b	Exploration over lease area for geological axis 1 or 2	1.25 ha	1.25 ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/S Mangalam Cement Ltd., Expenditue- Rs. 22041/-	M/S Mangalam Cement Ltd., Expenditue- Rs. 22041/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	32.72 ha	32.72 ha	
1e	Balance reserve as on 01/04/20	1.3766 million T	1.4664 million T	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The proposed exploration work for the year 2019-2020 has not been carried out, for which violation of rule 11(1) is being pointed out.	n

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area		Block -A N250-350, E500- 600	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	

2c	Stripping ratio or ore to OB ratio	1: 0.86	1 : 0.40	The less proporational development is being pointed out as Violation of rule 11 (1).
2d	Quantity of topsoil generation in m3	50 T	Nil	
2e	Quantity of overburden generation in m3	43113 T	3259 T	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The less proporational development is being pointed out as Violation of rule 11 (1).	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Block A, Pit 4	Block A, Pit 4	
3b	Quantity of ROM mineral production proposed	50117 T	8140 T	
3с	Recovery of sailable/usable mineral from ROM production	90 %	90 %	
3d	Quantity of mineral reject generation	4510 T	814 T	
3e		MgCO3- 6- 28.21%, Si O2-	CaCo3- 55-60%, MgCO3- 6-28.21%, Si O2- 6-32%	
3f	Quantity of sub grade mineral generation.	4510 T	814 T	
3g			CaCo3- 61-86 %, MgCO3- 1.57 -5.81%, Si O2- 8- 16%	

3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Maual
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil
3ј	Provision of drilling and blasting in mineral benches	Manual breaking of Limestone	Manual breaking of Limestone
3k	Provision of mining machineries in mineral benches	Manual breaking of Limestone	Manual breaking of Limestone
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	12 ha	10.07 ha
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.86	1 : 0.40
30	Total area put in use under different heads at the end of year	Pit- 12 ha, Waste 1.08 ha & others- 2.21 ha	1.198 ha & others- 2.21
3p	Production of ROM mineral during the last five year period as applicable	T, 2015-16- 50143 T, 2016-	2014-15- 5020 T, 2015- 16- 6050 T, 2016-17- Nil, 2017-18- 280 T, 2018-19-8140 T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The opencast manual method is used for working 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)		Seperate dumping of O/B & mineral Reject
4b	Location of topsoil, OB and mineral reject dumps	O/B dump- N 100-200, E400- 500	O/B dump- N 100-200, E400-500
4c	Number of dumps within lease area and outside of lease area	one dump in block A	one dump in block A
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL in Block- A	Outside UPL in Block- A
4e	Number of active and alive dumps.	One	One
4f	Number of dead dumps.	Nil	Nil
4 g	Number of dumps established.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland Drain	Garland Drain
4i	Length of Retaining wall or garland drain all along dumps	20 M	15 M
4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Not applicable	The retaining wall required along outer peripheri of Dumps to wards agriculture land, has not been constructed.

Solid Waste Management - Backfilling:

Item	Propasals	Actual work	Remarks
Status of part or full extraction of mineral from mined out area before starting backfilling.	mineral has	Full extraction of mineral has not been completed to full depth of mineralisation.	

!	5b	Area under backfilling of mined out area	No proposal	Nil
	ōc	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)		Very little top soil available in the area, which has been used for plantation.
į	5d	Total area fully reclaimed and rehabilitated	No proposal	Nil
!	5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	No matured area available for 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).	Yes as per rule	Submitted well in time	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.1 ha	0.1 ha	
6d	No. of saplings planted during the year		150 nos within lease over 0.5 ha	
6e	Cumulative no .of plants	Not specified	Not applicable	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	Rs 10000/-	Rs 10000/-	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	
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	250 Saplings including waste dumping	150 Saplings	The less no of splings planted is being pointed out as violation of rule 11 (1).
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.3 ha	0.1 ha	
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By plantation	By plantation	

Compliance of бр As per EC & As per EC & consent environmental consent condition monitroing at monitoring (core condition six monthly for Air & zone and buffer monitroing at for Water- quaterly done zone) six monthly for Air & for Waterquaterly бq General remarks Not applicable The less number of trees of inspecting planted over less area. officers on PMCP compliance and progressive closure operations etc.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	50117 Т	8140 T	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	High grade	High grade	
7d	Any beneficiation process at mines .	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	There is no mineral conservation issue.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks

8a	Separate removal and utilization of topsoil (Rule 32)	excavated will	Small quantity excavated used for plantation.
8b	Concurrent use or storage of topsoil		Small quantity excavated used for plantation.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for O/B waste proposed.	Separate dumping for O/B waste done.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not specified	Not applicable
8g	Survival rate	Not specified	40 %
8h	Water sprinkling on roads to control airborne dust	Yes	Yes, wet drilling & water spraying by tanker.
8i 	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The aesthatic beauty is satisfactory in & around the mine.

Compliance of Rule 45:

Propasals

Actual work

Remarks

Item

Sl.No.

9a	Status of submission of Monthly and Annual returns	Not applicable	The M/R submitted up to November 2019. The A/R submitted for the year 2018-19.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Sh. Satish Ratore, Manager- Sh. Gopal Prajapati & Geologist- Sh. Sudhanshu Pandey.	Found in order.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	10.07 ha, Waste dumping 1.198 ha,	Under excation- 10.07 ha, Waste dumping 1.198 ha, Plant & Building 2.21 ha
9d	Scrutiny of Annual return on afforestation	Given	Found in order
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	_	Found in order
9f	Scrutiny of Annual return on ROM stock and/or graded ore	68.485T,	Found in order
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	-	During 2018-19 a total of Rs. 2099391 had been expensed to raise aproduction of 8140 T of mineral thereby the cost of production comes about Rs. 257.91, which has been stated as Rs. 278.60 per tonne. The correct information has not been furnished in the annual return of 2018-19.
9h	Scrutiny of Annual return on fixed assets	The value of Fixed assets stated as Nil.	It can not be Nil
9k	Scrutiny of Annual return on mining machineries	Details Given	Found in order

PAGE : 12

Issued on Compliance on

Details of violations observed during violation pointed out	ng current inspection and compliance position of
Violation observed	Show couse position

Rule NO.

Date : (Sharma H.C.)

Issued on Compliance on

Rule NO.

Indian Bureau of Mines