INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/CHT/LST-13 Mine code : 38RAJ09013

(i) Name of the Inspecting : $\textbf{G021} \hspace{0.5cm} \textbf{)} \hspace{0.1cm} \textbf{DATA} \hspace{0.1cm} \textbf{RAM} \hspace{0.1cm} \textbf{GURJAR}$

Officer and ID No.

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

(iii) Accompaning mine : SH. RC VYAS, MINES MANAGER

Official with Designation

(iv) Date of Inspection : 20-OCT-19
(v) Prev.inspection date : 05-MAR-19

PART-I : GENERAL INFORMATION

(a) Mine Name : MANGROL

(b) Registration NO. : IBM/418/2011

(c) Category : A Fully Mechanised

(d) Type of Working : Opencast

(e) Postal address

State : RAJASTHAN

District : CHITTORGARH

Village : MANGROL

Taluka : NIMBAHERA

Post office : MANGROL

Pin Code : 312617

FAX No. : 01477-20087,220562

E-mail : maheem.kachhwaha@jkcement.c

Phone : 01477-20087,220562

(f) Police Station : Nimbahera sadar

(g) First opening date : 10-JUN-13

(h) Weekly day of rest : WED

2. Address for : PO- MANGROL

correspondance DISTT CHITTORGARH

RAJASTHAN

3. (a) Lease Number : RAJ4468 (b) Lease area : 132

(c) Period of lease : 50

(d) Date of Expiry : 03-MAY-62

4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : J.K.Cement Works

Kailashnagar Nimbahera CHITTORGARH RAJASTHAN Phone:01477-220087 FAX:01477-220027

Owner : KAILASH NATH

50 MIG BUNGLOW W BLOCK JUHI

KESHAV NAGAR KANPUR UP CHITTORGARH RAJASTHAN Phone: 0512-2371478-81 FAX : 0512-2332665

Agent : MAHEEM KACHWAHA

J.K.CEMENT WORKS NIMBAEHRA CHITTORGARH CHITTORGARH

RAJASTHAN

Phone: 01477-22087 FAX: 01477-220027

Mining Engineer

Name : P.K. JOSHI, Full Time Qualification : B.E. (Mining) FCC

Appointment/ : 11-APR-13

Termination date

Geologist

Name : Manish Madhav, Full Time

Qualification : M Sc Geology
Appointment/ : 09-JUL-15

Termination date

Manager

Name : R.C.Vyas

Qualification : Diploma in mining and FCC

Appointment/ : 11-APR-13

Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 22-MAR-10 Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlog of previous year	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	During the year 2018-19 no exploration proposal given.	Nil	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	During the year 2018-19 no exploration proposal given.	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal given in approved mining plan.	Nil	Area Under G1- 50.829 hect. G3-2.945 hect.(Subgrdae zone) & 71.269 hect(No mineralised & subgrade zone)
1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2019(Pr oved & probable) 44.62 mill. Tons	Balance reserves as on 01.04.2019 (Proved & probable) 44.62 mill. Tons	
1f	General remarks of inspecting officers on geology, exploration etc			No exploration proposal during the last year.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	the eastern	Pit was developed on proposed location.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	only in	Benches only in mineral	Nil

2c	Stripping ratio or ore to OB ratio	1:0	1:0	Nil
2d	Quantity of topsoil generation in m3	16631.52 m3 during the year 2018-19.	10769.23 m3 during the year 2018-19.	Nil
2e	Quantity of overburden generation in m3	No OB generation proposal	Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development of mine pit carried out on same location as proposed however orientations of proposed benches have not been maintained as per approved proposals during the year 2018-19 hence violation of rule 11(1) of MCDR 2017 issued to the lessee.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1 pit	1 pit	Nil
3b	Quantity of ROM mineral production proposed	18,99,392.40 Tons (2018-19)	14,16,889.54 Tons (2018-19)	
3с	Recovery of sailable/usable mineral from ROM production		13,33,161.54 Tons	Nil
3d	Quantity of mineral reject generation	No proposal	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Nil	Nil
3f	Quantity of sub grade mineral generation.	4,99,003.40 Tons (2018-19)	83,728.00 Tons (2018-19)	Nil

3g	Grade of sub grade mineral generation	LSF 68.04, CaO 34% to 40% CaO & MgO 5% max	LSF 68, CaO 41.26% & MgO 0.77%	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised1	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such study proposed.	None	Nil
3ј	Provision of drilling and blasting in mineral benches	and blasting	Drilling and blasting is being carried out as per approved proposals.	Nil
3k	Provision of mining machineries in mineral benches	Using Hyd. Excavator, Drill machine, Dozer and Tipper.	Using Hyd. Excavator, Drill machine, Dozer and Tipper.	Nil
31	Whether height of benches in overburden and mineral suitable for method of mining proposed	Yes	Yes	Nil
	in MP/SOM			
3m	in MP/SOM Total area covered under excavation/pits	Area under mining =32.919 ha. at the end of mining plan period i.e. 2021-22.	19.20 hect. under mining up to year 2018-19.	Nil
3m 3n	Total area covered under	mining =32.919 ha. at the end of mining plan period i.e.	up to year 2018-19.	Nil

Nil

3р Production of ROM mineral during the last five year period 2017-18: as applicable

2018-19: 18,99,393.20 Tons

18,99,000.00 Tons

2016-17: 14,91,080.00 Tons 2015-16: 9,96,600.00 Tons 2014-15: 7,99,680.00

Tons

2018-19: 14,16,889.54

Tons

2017-18: 15,02,338.48

Tons

2016-17: 10,42,313.46

2015-16: 1223518.55 Tons 2014-15: 5,75,579.32

3q General remarks of inspecting officers on method of mining etc.

Method of mining 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)	proposals OB dumps : No	subgrade mineral is being carried out.	Nil

4b	Location of topsoil, OB and mineral reject dumps	dumping of topsoil, OB, & Mineral Reject. The proposal of dumping was only proposed for subgrade mineral.	ML A-1 Subgrade dump no.3 - Between section lines ML 8-10	Nil
4c	Number of dumps within lease area and outside of lease area	03 subgrade dumps.	03 subgrade dumps.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL	Outside of UPL	Nil
4e	Number of active and alive dumps.	_	03 subgrade dumps.	Nil
4f	Number of dead dumps.	Nil	Nil	Nil
4 g	Number of dumps established.	No proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal given for the year 2018-19	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal during the year 2018-19	Nil	Nil
4 j	Number of settling ponds	No proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management			No waste dump was observed only subgrade mineral stacking is being carried out.

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No backfilling proposal	Nil	Nil
5b	Area under backfilling of mined out area	No backfilling proposal	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Plantation	Plantation	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No proposal of backfilling during the last year.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Submitted	Submitted on time.	Nil
6b	Area available for rehabilitation (ha) .	0.8 На	0.72 На	Nil
6c	afforestation done (ha).	0.8 Ha	0.72 Ha	Nil
6d	No. of saplings planted during the year	1000 nos.	1195 nos.	Nil
6e	Cumulative no .of plants	Not specified	5255 nos.	Nil
6f	Any other method of rehabilitation	No proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs. 75,000.00	Rs. 2,03,133.00	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal of backfilling	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	N/A	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	Rain water was accummulated in the bottom of pit.
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1000 nos.	1195 nos.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.8 hect.	0.72 hect.	Nil
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	Nil

бр	Compliance of environmental monitoring (core zone and buffer zone)	Environment monitoring is being carried out as per EC & consent ot operate conditions.	Nil
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	14,00,389.80 Tons usable grade limestone will be dispatched to captive cement plant duirng the year 2018-19.	13,33,161.54 Tons usable grade limestone dispatched to captive cement plant duirng the year 2018-19.	Nil
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Nil
7c	Different grade of mineral sorted out at mines.	Usable grade of limestone for captive cement plant & subgrade.	Usable grade of limestone for captive cement plant & subgrade.	
7d	Any beneficiation process at mines .	Noproposal	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue observed related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks

8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes as per proposal	Nil
d8	Concurrent use or storage of topsoil	Concurrent use for plantation.	Concurrent use for plantation.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only subgrade dumps.	Only subgrade dumps.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal given	None	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal duirng the last year.	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000 nos. plantation proposed over an area 0.8 hect. during the year 2018- 19	1195 nos. plantation has been carried out over an area 0.72 hect. during the year 2018-19. Cummulative plantation 5255 nos. up to year 2018-19.	Nil
8g	Survival rate	75%	70%	Nil
8h	Water sprinkling on roads to control airborne dust	sprinkling of	Water sprinkling on haul roads was observed.	Nil
8i 	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty is good in and around the mines area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks

9a	Status of submission of Monthly and Annual returns	Monthly returns submitted up to Oct. 2019 & Annual returns submitted up to 2018-19.	Regular timely submission of returns.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given Geologist : Sh Manish Madhav Mining Engineer : Sh. P K Joshi Mines Manager : Sh. R C Vyas	Found correct.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Reclaimed area: 0.00 Ha	Found ok	Nil
9d	Scrutiny of Annual return on afforestation		Found ok	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject generation.	Found ok	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	in AR Closing stock	This is subgrade mineral stock stacked at the earmarked place in the lease area.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given Cost of production- Rs. 166.96 per tonne.	This is captive mine hance cost of production & ex-mine price is same.	Nil
9h	Scrutiny of Annual return on fixed assets	Details given of Fixed assets. Rs. 10015297502	This is combined information along with other mines of the Company	Nil

9k Scrutiny of Details of Annual return on mine

mining machinaries machineries given in Annual Return.

Machinary deployement Nil was observed.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation	n observed	Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on
MCDR17 Rule 11(1)	07-NOV-19		

Date :

(DATA RAM GURJAR)

Indian Bureau of Mines