INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/CHT/LST-3 Mine code : 38RAJ09003

(i) Name of the Inspecting : GQ21) DATA RAM GURJAR

Officer and ID No.

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

(iii) Accompaning mine : Sh. Dilip Kumar Dhakar, Mine Manager

Official with Designation

(iv) Date of Inspection : 02-MAR-22
(v) Prev.inspection date : 08-OCT-20

PART-I : GENERAL INFORMATION

(a) Mine Name : MALIAKHERA

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

(c) Category : A Mechanised

(d) Type of Working : Opencast

(e) Postal address

State : RAJASTHAN

District : CHITTORGARH

Village : MALIAKHERA

Taluka : NIMBAHERA

Post office : PHALWA

Pin Code : 312617

FAX No. : 01477-220027

E-mail : mines.nbh@jkcement.com

Phone : 01477-220087

(f) Police Station : NIMBAHERA(g) First opening date : 24-JUN-89

(h) Weekly day of rest : WED

2. Address for : VILLAGE-NIMBAHERA

correspondance POST-KAILASH NAGAR, Nimbahera

DISTT-CHITTORGARH (Raj.)

3. (a) Lease Number : RAJ0007 (b) Lease area : 315.41 (c) Period of lease : 50

(d) Date of Expiry : 12-FEB-34

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 : Ajay Kumar Saraogi

J.K. Cement Ltd Kamla

Tower, Kanpur KANPUR URBAN

UTTAR PRADESH

Phone: 0512 - 2311478 FAX : 0512 - 2364250

Agent : Manish Toshniwal

J K Cement Works Kailash

Nagar, Nimbahera CHITTORGARH RAJASTHAN Phone: 01477-20087,220562 FAX: 01477-20087,220

Mining Engineer

Name : Shri D K Dhakar, Full Time

Qualification : BE, FCC
Appointment/ : 01-MAR-19

Termination date

Geologist

Name : Rajneesh Kothari, Full Time Qualification : M.sc.(Tech) Applied goelogy

Appointment/ : 13-MAY-15

Termination date

Manager

Name : D.K.Dhakar

Qualification : B.E

Appointment/ : 01-MAR-19

Termination date

6. Date of approval of Mining Plan/Scheme of Mining

Modif.approved Mining Scheme 15-JAN-04 Renewal under rule 22 MCR1960 01-OCT-04 Mining Scheme rule 12 MCDR1988 03-MAR-09 Renewal under rule 24 MCR1960 19-JAN-15 Mining Scheme rule 12 MCDR1988 20-MAY-15 MP modif under 17(3) MCR 2016 23-MAY-18 MP modif under 17(3) MCR 2016 29-NOV-18 MP review under 17(1) MCR 2016 25-NOV-19 MP modif under 17(3) MCR 2016 24-NOV-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	During the previous year 2019-20 total 28 nos. bore proposed(2000 mts).	During the year 2019-20 total 7 nos. bore hole drilling carried out(852mts).	Violation was issued during by the previous inspectin officer vide letter 16.10.2020. Backlog drilling incorporated in Modification of Review of Mining Plan for the period 2020-21 to 2024-25.
1b	Exploration over lease area for geological axis 1 or 2	During the year 2020-21 total 35 Core boreholes (2665 mts.) proposed.	During the year 2020-21 total 35 nos. of bore holes having 4019m drilling has been carried out.	Nil
lc	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration Agency: Departmentall y / M/s Synergy Geotech Private Ltd., Nagpur Expendtiures: Not specified	Exploration Agency: M/s Synergy Geotech Private Ltd., Nagpur Expendtiures: Rs. 46.48 Lacs.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per approved modification of review of mining plan(Approved on 24.11.2020), the area Under G1-279.625 hect., G2-35.784 hect. To determine its depth extension upto threshold value, explora tion is proposed during the year 2020-21 to 2021-22	During the year 2020-21 drilling has been carried out as per proposal.	As per proposal entire area will be exploraed under G1 level up to year 2021-22.

1e	Balance reserve as on 01/04/20	No specific rposal given in this regard.	Proved Mineral Reserve (111) - 100.153 Million Tonnes, Probable Mineral Reserve (122)- 68.213 Mill. Tons	Nil
1f	General remarks of inspecting officers on geology, exploration etc			As per proposal entire area will be exploraed under G1 level up to year 2021-22.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During the year 2020-21: Pit 1 E/W 461063 to 460333 & N/S 2730602 to 2729280	Mine development has been carried out as per approved proposal.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil & OB benches proposed, only mineral benhces proposed.	Overburden Benches-	Nil
2c	Stripping ratio or ore to OB ratio	1 : 0.007	1:0.0	To OB/IB generated during the year.
2d	Quantity of topsoil generation in m3	2020-21: 13986.01 Cu.m.	2020-21: 6230.77 Cu.m.	Nil
2e	Quantity of overburden generation in m3	2020-21: 20979.02 Cu.m. (30,000 Tonnes)	2020-21: Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development has been carried out as per proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks

3a	Number of pit proposed for production	One	One	Nil
3b	Quantity of ROM mineral production proposed	2020-21: 31,50,003.96 Tonnes	2020-21: 29,99,392.58 Tonnes	Nil
3с	Recovery of sailable/usable mineral from ROM production	2020-21: 30,00,000.58 Tonnes	2020-21: 29,99,392.58 Tonnes	Nil
3d	Quantity of mineral reject generation	No proposal during the year 2020-21.	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal during the year 2020-21.	Not applicable	Nil
3f	Quantity of sub grade mineral generation.	2020-21: 1,50,003.38 Tonnes	No subgrade generated during the year.	Nil
3g	Grade of sub grade mineral generation	CaO 39.8 MgO 0.9	No subgrade mineral generated during the year.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Method	Mechanised Method	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study proposed.	None during the year.	Nil
3j	Provision of drilling and blasting in mineral benches	Yes, drilling will be done by Nakoda Indus (4.5 inch dia), DTH drills holes will be blasted by explosive (Kelvex 600 and ANFO).	Yes, drilling is done by Nakoda Indus (4.5 inch dia), DTH drills holes are blasted by explosive (Kelvex 600 and ANFO).	Nil
3k	Provision of mining machineries in mineral benches	Hyd. Excavator, Drill Mach., Dozer, Tipper etc.	Hyd. Excavator, Drill Mach., Dozer, Tipper etc.	Nil

31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes suitable to the deposit.	Nil
3m	Total area covered under excavation/pits	72.239 Hect.(As on 31.03.2021)	72.001 Hect.(As on 31.03.2021)	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.007	1:0.0	Nil
30	Total area put in use under different heads at the end of year	97.004 Hect.(upto 31.03.2021)	93.37 Hect.(upto 31.03.2021)	Nil
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 1899999.74T 2017-18 - 1900000.21T 2018-19 - 2112068.515 T 2019-20 - 4175000T 2020-21 - 3150003.96T, 2021-22 - 4605119.01T	2016-17 - 1293776T 2017-18 -1560893T 2018-19 - 1686388 T 2019-20 - 2545017T 2020-21 - 2999393T 2021-22 - 3528254T(up to Feb 2022)	Nil
3q	General remarks of inspecting officers on method of mining etc.	Open cast method of mining has been proposed.	Open cast mining method is being practiced.	Method of mining is suiatble to the type of deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	of topsoil, OB and mineral	top soil dumping, direct use in plantation. Interstitial	Top soil is used in plantation area. No Interburden (clay)/ Waste generated during the year. No Subgrade generated during the year 2020-21.	Nil

4c	Number of dumps within lease area and outside of lease area		Two dumps (Within lease) Subgrade dump 1 Nos. Interburden (clay)/ Waste sump 1 Nos.	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.		01 Nos. Subgrade dump	Nil
4f	Number of dead dumps.	No proposal	Nil	Nil
4g	Number of dumps established.	No proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.		Garland drain was there along the subgrade dump.	Nil
4i	Length of Retaining wall or garland drain all along dumps		400m gralnd drain report in PMCP report.	Nil
4j	Number of settling ponds	No proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management			No issue related to waste dump management.

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.	No backfilling proposal during the year 2020-21.	None during the year.	Nil
5b	Area under backfilling of mined out area	No backfilling proposal during the last year.	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 during the last year.	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling & reclamation proposal during the last year.

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).	PMCP report should be submitted before 1st July for the previous financial year.	Yes, PMCP report 2020-21 submitted within time limit.	Nil
6b	Area available for rehabilitation (ha) .	2020-21: Area 4.59 Hects.	2020-21: Area covered - 9.29 Hects.	Nil
6c	afforestation done (ha).	2020-21: Area 4.59 Hects.	2020-21: Area covered - 9.29 Hects. within lease area & 1.07 hect outside of lease area.	Nil
6d	No. of saplings planted during the year	2020-21: 4590 Nos.	Year 2020-21: 16415 Nos. within lease and 2675 Nos. outside lease.	Nil
6e	Cumulative no .of plants	No such specicfic proposal given	Within Lease 44800 Nos. Outside Lease 13779 Nos.	Up to year 2020- 21.
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	No proposal	Rs. 6.726 Lacs	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal of backfilling.	No backfilling has been carreid out during the year.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	Not applicable	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	However rain water was accumulated in pit bottom.
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	Afforestation 4590 Nos. of plants, Area 4.59 Hects within lease.	9.29 Hects. (Afforestation within lease) having 16415 nos. saplings.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	2020-21: Area 4.59 Hects.	2020-21: Area covered - 9.29 Hects.	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)	Yes	Yes, Compliances of environmental monitoring is being carried out.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliances is satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Usable Limestone dispatched for Cement manufacturing in captive cement plant.	Usable Limestone dispatched for Cement manufacturing in captive cement plant.	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.	Subgrade mineral CaO 39.0 MgO 1.05	No subgrade generated during the reporting year 2020-21.	Nil
7d	Any beneficiation process at mines .	No proposal	None	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 for plantation.	Nil

8b	Concurrent use or storage of topsoil	Plantation	Plantation	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No overburden, waste rock. Therefore no dumping proposal.	None	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No generation of overburden/waste rock.	Not applicable	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal during the last year except plantation.	Plantation has been carried out as per proposal.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2020-21, total 4590nos. plnatation proposal over an area 4.59 hect.	16415 Nos. of plants planted covering 9.29 Hects. area within lease during the year 2020-21.	Nil
8g	Survival rate	Not specified	90%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Observed	Nil
8i 	General remarks of inspecting officer on aesthetic beauty in and around mines area			The general aesthetic beauty in and around mine area is satisfatory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto Feb 2022 A.R. submitted upto year 2020-21.		Nil

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - Sh. Dilip Kumar Dhakar Geologist - Sh. Rajneesh Kothari Manager - Sh. Dilip Kumar Dhakar	Found ok	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Seems to be correct.	Nil
9d	Scrutiny of Annual return on afforestation		Seems to be correct.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject generation reported in annual return.	No reject generated during the year.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Seems correct.	Subgrade stock.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Mine Price - Rs. 159.12/-	Seems correct	Captive mine
9h	Scrutiny of Annual return on fixed assets	Fixed assest Rs. 588181108.	Seems correct.	Nil
9k	Scrutiny of Annual return on mining machineries		Found correct.	Nil

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Details of violations observed during current inspection and compliance position of violation pointed out					
Violat	cion observed	Show couse position			
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on		

Date : (DATA RAM GURJAR)

Indian Bureau of Mines