### 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 Officer and ID No.	:	GQ21 ) DATA RAM GURJAR
	(ii)	Designation	:	Sr. Asst. Contrl. Mines
	(iii)	Accompaning mine Official with Designation	:	Sh. Dilip Kumar Dhakar, Mine Manager
	(iv)	Date of Inspection	:	21-SEP-22
	(v)	Prev.inspection date	:	02-MAR-22
		PAI	RT-	I : GENERAL INFORMATION
1.	(a)	Mine Name	:	MALIAKHERA
	(b)	Registration NO.	:	IBM/418/2011
	(c) (d) (e)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone	: : : : : :	
	(f)	Police Station	:	NIMBAHERA
	(g)	First opening date	:	24-JUN-89
	(h)	Weekly day of rest	:	WED
2.		ess for espondance	:	VILLAGE-NIMBAHERA POST-KAILASH NAGAR, Nimbahera DISTT-CHITTORGARH (Raj.)
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	:	RAJ0007 315.41 50 12-FEB-34
4.	Mine	ral worked	:	LIMESTONE Main

5. Name	and Address of th	le	
	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/ : Termination date	01-MAR-19	
	Geologist		
	Name :	Rajneesh Kothari,Full Time	
	Qualification :	M.sc.(Tech) Applied goelogy	
	Appointment/ : Termination date	13-MAY-15	
	Manager		
	Name :	D.K.Dhakar	
	Qualification :	B.E	
	Appointment/ : Termination date		
	of approval of Mi /Scheme of Mining	.ning : Modif.approved Mining Scheme Renewal under rule 22 MCR1960 Mining Scheme rule 12 MCDR1988 Renewal under rule 24 MCR1960 Mining Scheme rule 12 MCDR1988 MP modif under 17 (3) MCR 2016 MP modif under 17 (1) MCR 2016	15-JAN-04 01-OCT-04 03-MAR-09 19-JAN-15 20-MAY-15 23-MAY-18 29-NOV-18 25-NOV-19

MP review under 17(1) MCR 2016

MP modif under 17(3) MCR 2016

25-NOV-19

24-NOV-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal during the previous year 2020-21.	None during the previuos year 2020-21.	No backlog of previous year.
1b	Exploration over lease area for geological axis 1 or 2	During the year 2021-22 total 39 boreholes (2580m) proposed.	During the year 2021-22 total 39 nos. of bore holes(3888.50m) drilling has been carried out.	Nil
1c	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. 5.268 Lacs.	Nil
ld	Balance area to be explored to bring Geological axis in 1 or 2	During the year 2021-22 it is proposed that 146.669 hect. area will be covered under G1 level.	During the year 2021-22 total 146.669 hect. area covered under G1 level.	2021-22, entire
le	Balance reserve as on 01/04/20	No specific proposal given in this regard.	Balance reserve as on 01.04.2022 Proved Mineral Reserve (111) - 96.202 Million Tonnes, Probable Mineral Reserve (122)- 68.213 Mill. Tons	
lf	General remarks of inspecting officers on geology, exploration etc			No issue observed related to geology & exploration.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks

2a	Location of development w.r.t.lease area	2021-22: Pit 1 E/W 461082 460305	During the year 2021-22, mine development has been carried out within proposed limit.	Nil
		N/S 2730602 2729255		
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil & OB benches proposed, only mineral benhces proposed.	Top soil Benches - Nil, Overburden Benches- Nil, Mineral Limestone Benches- 5 Benches	Nil
2c	Stripping ratio or ore to OB ratio	2021-22: 1 : 0.026	2021-22: 1 : 0.010	Nil
2d	Quantity of topsoil generation in m3	2021-22: 17482.52 Cu.m	2021-22: 13594.40 Cu.m.	Nil
2e	Quantity of overburden generation in m3	2021-22: 118881.12 Cu.m.	2021-22: 40886.01 Cu.m.	Interburden (clay)/ Screen rejects
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	2021-22: One	2021-22: One	Nil
3b	Quantity of ROM mineral production proposed	2021-22: 46,05,119.01 Tonnes	2021-22: 39,50,876.919 Tonnes	Nil
3с	Recovery of sailable/usable mineral from ROM production	, ,	2021-22: 36,33,227.90 Tonnes	Nil
3d	Quantity of mineral reject generation	No proposal during the year 2021-22.	Not generated during the year 2021-22.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal during the year 2021-22.	Not applicable	Nil

3f	Quantity of sub grade mineral generation.	2021-22: 4,05,051.00 Tonnes	2021-22: 3,17,649.019 Tonnes	Nil
3g	Grade of sub grade mineral generation	CaO 39.8% MgO 0.9%	CaO 39.47% MgO 1.11%	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
Зm	Total area covered under excavation/pits	77.440 Hect.(As on 31.03.2022)	75.40 Hect.(As on 31.03.2022)	Nil
3n	Ore to OB ratio for the pit/mine during the year.	2021-22: 1 : 0.026	2021-22: 1 : 0.010	Nil
30	Total area put in use under different heads at the end of year	105.952 Hects.(upto 31.03.2022)	97.088 Hects.(upto 31.03.2022)	Nil

2017-18 -1560893T 3p Production of 2017-18 -Nil ROM mineral 1900000.21T 2018-19 - 1686388 T 2019-20 - 2545017T during the last 2018-19 five year period 2112068.515 T 2020-21 - 2999393T 2021-22 - 3950876 T as applicable 2019-20 -4175000T 2020-21 -3150003.96T, 2021-22 -4605119.01T General remarks Open cast Open cast mining method Method of mining Зq method of is being practiced. is suiatble to the of inspecting officers on mining has type of deposit. method of mining been proposed. etc.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	top soil dumping, direct use in plantation. Interstitial	-	Nil
4b	Location of topsoil, OB and mineral reject dumps	Interburden (clay)/ Screen rejects/ Waste generation in South side between section line ML 22-23. Subgrade dump between ML 19 - ML 22-23 in SE side of Mining lease.		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.	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.		Active dumps 02 Nos. (one Subgrade dump & one Interburden (clay)/Screen reject 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 proposed during the year.	Garland drain made during the year.	Nil
4i	Length of Retaining wall or garland drain all along dumps		2021-22: 415 m (Garland drain) & 1100 m fencing	Nil
4j	Number of settling ponds	No proposal	Nil	Nil
4 k	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.	proposal	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 2021-22 submitted within time limit.	Nil
6b	Area available for rehabilitation (ha) .	2021-22: Area 4.46 Hects.	2021-22: Area covered - 7.905 Hects.	Nil
6c	afforestation done (ha).	2021-22: Area 4.46 Hects.	2021-22: Area covered - 7.905 Hects.	Nil
6d	No. of saplings planted during the year	2021-22: 4460 Nos.	Year 2021-22: 33316 nos. sapling planted within lease area.	Nil
6e	Cumulative no .of plants	No such specicfic proposal given	Within Lease 67116 Nos. Outside Lease 13779 Nos.	Up to year 2021- 22.
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	No specific proposal given	2021-22: Rs. 6.7 lakh	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 No proposal Nil Nil reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings 6j Compliance on No proposal Not applicable Nil reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area 6k Compliance on However rain water No proposal Nil reclamation and was accumulated in rehabilitation pit bottom. by backfilling (iv) Rehabilitation by making water reservoir 61 Compliance on No proposal Nil Nil reclamation and rehabilitation by backfilling (v) any other specific means. Compliance of Afforestation 7.905 Hects. Nil 6m -- 4460Nos. of (Afforestation within rehabilitation of waste land plants, Area - lease) having 22316 nos. - 4.46 Hects within lease saplings. (i) afforestation within lease. 2021-22: Area 2021-22: Area --Nil 6n Compliance of rehabilitation --4.59 Hects. 7.905Hects. of waste land within lease (ii)Area rehabilitation (ha) Compliance of Plantation Plantation Nil 60 rehabilitation of waste land within lease (iii) Method of rehabilitation 6p Compliance of Yes Yes, Compliances of Nil environmental environmental monitoring monitoring (core is being carried out. zone and buffer zone)

PMCP compliances is satisfactory.

6q General remarks of inspecting 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	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 39.8% MgO 0.8%	Subgrade mineral CaO 39.47 % MgO 1.11%	Nil
7d	Any beneficiation process at mines •	No proposal during the year.	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)	Yes	Yes as per proposal	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal given	None	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 2021-22, total 4460nos. plnatation proposal over an area 4.46 hect.	22316 Nos. of plants planted covering 7.905 Hects. area within lease during the year 2021-22.	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	of MCDR,2017	Monthly returns and Annual returns have been submitted timely.	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)	Not reported	No mineral reject reported	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. 166.49/-	Seems correct	Captive mine
9h	Scrutiny of Annual return on fixed assets	Fixed assest Rs. 665906382	Seems correct.	Nil
9k	Scrutiny of Annual return on mining machineries	Detail given in AR.	Found in order.	Nil

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 31(4)	03-OCT-22			

Date :

#### (DATA RAM GURJAR)

Indian Bureau of Mines