INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Gandhinagar regional office

	Mine :	file No : RAJ/CHT/LST-	- 3	Mine code : 38RAJ09004
	(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	:	Shri L.S. Pohkarna, Mine Manager
	(iv)	Date of Inspection	:	07-DEC-19
	(v)	Prev.inspection date	:	15-NOV-18
		PA	RT-	I : GENERAL INFORMATION
1.	(a)	Mine Name	:	MANGROL TILAKHERA
	(b)	Registration NO.	:	IBM/418/2017
	(c) (d) (e)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone		A Mechanised Opencast RAJASTHAN CHITTORGARH MANGROL,TILAKHERA NIMBAHERA MANGROL 312617 91-512-2332665,2399854 shambhu.singh@jkcement.com 91-512-2371478,2371479,237:
	(f)	Police Station	:	NIMBAHERA
	(g)	First opening date	:	09-MAY-79
	(h)	Weekly day of rest	:	WED
2.		ess for espondance	:	VILLAGE-MANGROL & TILAKHERA POST-MANGROL DISTT-CHITTORGARH
3.	(a) (b) (c) (d)		:	RAJ0009 299.2 31-MAR-30
4.	Miner	ral worked	:	LIMESTONE Main

5.	Name	and Address of	the			
		Lessee	:	J.K.Cement	t Works	
				Kailashnag	gar Nimbahera	
					RH RAJASTHAN	
				Phone:014		
				FAX :0147	//-22002/	
		Owner	:	KAILASH N	JATH	
					NGLOW W BLOCK JUHI	
					GAR KANPUR UP RH RAJASTHAN	
					2-2371478-81	
				FAX : 051	2-2332665	
		Agent	:	MAHEEM KAG	СНЖАНА	
					I WORKS NIMBAEHRA	
				CHITTORGAN RAJASTHAN	RH CHITTORGARH	
				Phone: 014	177-22087	
				FAX : 014	177-220027	
		Geologist				
		Name	:	Om Prakasl	n Sharma,Full Time	
		Qualification	:	MSC Geolog	ЭХ	
		Appointment/	:	01-JUL-15		
		Termination da	te			
		Manager				
		Name	:	L.S.POKHAP	RNA	
		Qualification	:	BE MINING		
		Appointment/ Termination da	: te	11-NOV-18		
б.	Date	of approval of	Mini	ng :	Mining Scheme rule 12 MCDR1988	01-OCT-04
	Plan/	Scheme of Minin	g		FMCP under 23C(1)	24-JAN-07
					Mining Scheme rule 12 MCDR1988 Modif.approved Mining Scheme	04-AUG-10 25-JUL-11
					Mining Scheme rule 12 MCDR1988	06-APR-15
					MP review under 17(1) MCR 2016	16-NOV-17
					MP modif under 17(3) MCR 2016	03-JAN-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	During the year 2018-19 exploration was proposed by 8 bore hole drilling.	During the year 2018-19, no drilling has been carried out.	Violation of rule 11(1) of MCDR 2017 issued to the lessee.
1b	Exploration over lease area for geological axis 1 or 2	During the year 2018-19 exploration was proposed by 8 bore hole drilling for G1 level.	No drilling has been carried out so far.	Violation of rule 11(1) of MCDR 2017 issued to the lessee.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration agency- Self departmental drilling, Expenditure- Not specified	During the year no exploration work has been carried out.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	During the year 2018-19 exploration was proposed by 8 bore hole drilling for G1 level.	No exploration drilling has been carried out during the year 2018-19.	As per modified mining plan approved for the period 2019-20 to 2022-23 Total minearlised area 76.007 Ha (G1 level-66.43 ha, G2 level-9.64 ha) Exploration proposed during the year 2019-20 & 2020-21 to convert G2 level into G1 level.
1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2019 25.16 mill. Tons	Balance reserves as on 01.04.2019 25.16 mill. Tons	Nil
lf	General remarks of inspecting officers on geology, exploration etc			Exploration drilling has not been carried out during the year 2018-19, hence violation of rule 11(1) of MCDR 2017 issued to the lessee.

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Northern side & southern side of the lease area.	Northern side & southern side of the lease area as per approved proposal.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches proposed in mineral .	As per proposal.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.006	1 :0.008	Nil
2d	Quantity of topsoil generation in m3	6993	6657.34	Nil
2e	Quantity of overburden generation in m3	4800	4797.6	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development is going as per proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 pit(North pit & South Pit)	2 pit(North pit & South Pit)	Nil
3b	Quantity of ROM mineral production proposed	2018-19 19,09,129.50 Tons		Nil
3с	Recovery of sailable/usable mineral from ROM production	14,50,355.60		Nil
3d	Quantity of mineral reject generation	No proposal	Not generated	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not applicable	Nil
3f	~	2018-19 4,58,773.90 Tons	2018-19 1,91,910.00 Tons	Nil

3g	Grade of sub grade mineral generation	2018-19 CaO : 41.85% MgO : 0.71%	2018–19 CaO : 38.42% MgO : 1.30%	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	Nil
3ј	Provision of drilling and blasting in mineral benches	Yes, proposed	As per proposal	Nil
3k	Provision of mining machineries in mineral benches	Excavator,	As per proposal	Nil
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Nil
3m	Total area covered under excavation/pits		2018-19 37.97 На.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.006	1 :0.008	Nil
30	Total area put in use under different heads at the end of year		At the end of year 2018- 19 total area put ot use under different heads- 112.972 hect. (Including plantation)	Nil

3p Production of 2014-15: 2014-15: 7,57,743.59 Nil ROM mineral 16,00,199.03 Tons during the last Tons 2015-16: 11,61,465.12 five year period 2015-16: Tons as applicable 3,60,132.05 2016-17: 14,10,237.31 Tons Tons 2016-17: 2017-18: 13,19,700.70 13,63,360.02 Tons Tons 2018-19: 14,92,276.13 Tons 2017-18: 13,69,966.00 2019-20: 8,38,537.96 Tons Tons (up to Nov. 2019) 2018-19: 19,09,129.50 Tons 2019-20: 18,57,868.03 Tons 3q General remarks Method of mining of inspecting is suitable to the deposit. officers on method of mining

Solid Waste Management - Dumping:

etc.

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping proposal of OB/IB & Subgrade mineral.	Separate dumping of OB/IB & subgrade mineral.	Nil
4b	Location of topsoil, OB and mineral reject dumps	lease boundary		During the year 2018-19 sugrade dumping was proposed between section lines ML3 to ML5 but actual subgrade dumping has been carried between section lines ML2 to ML5, Hence violation of Rule 11(1) of MCDR 2017 issued to the lessee.
4c	Number of dumps within lease area and outside of lease area	02 subgrade dumps 02 Overburden waste dumps	02 Overburden waste	Nil

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Nil
4e	Number of active and alive dumps.	5	02 subgrade dumps 02 Overburden waste dumps	Nil
4f	Number of dead dumps.	None	None	Nil
4g	Number of dumps established.	No proposal	None	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain proposed.	Garland drain along the dumps.	Nil
4i	Length of Retaining wall or garland drain	2018-19 Garland drain : 148m	2018-19	Nil
	all along dumps		Garland drain : 200m	
4j	Number of settling ponds	No proposal	None	Nil
4k	Specific comments of inspecting officer on waste dump management			During the year 2018-19 sugrade dumping was proposed between section lines ML3 to ML5 but actual subgrade dumping has been carried between section lines ML2 to ML5, Hence violation of Rule 11(1) of MCDR 2017 issued to the lessee.

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.	Not proposed	Nil	Nil
5b	Area under backfilling of mined out area	Ni proposal	Nil	Nil

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed for plantation	Used for plantation	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Pits are active hence backfilling has not been carried out.

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).	PMCP report shall be submit up to 1 july for the previous financial year/	PMCP report for the year 2018-19 submitted on time.	Nil
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
бс	afforestation done (ha).	1.5 ha	1.10 ha	Nil
6d	No. of saplings planted during the year	1500 nos.	1890 nos.	
6e	Cumulative no .of plants	No specific proposal	40385 nos. plants.	Nil
бf	Any other method of rehabilitation	No proposal	None	Nil
бд	Cost incurred on watch and care during the year	Rs.3,00,00.00	Rs. 6,62,648.00	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	None	Nil

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	None	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	None	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	However rain water accumulated at the pit bottom	Nil
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	None	Nil
бm	Compliance of rehabilitation of waste land within lease (i)afforestation	1500 nos.	1890 nos.	Nil
бn	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.5 hect.	0.95 ha by plantation.	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)	Regular monitoring proposed.	Regular monitoring is being carried out.	Nil

PMCP compliances satisfacory.

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	Cement grade limestone will be disptached to captive cement plant & sabgrade mineral will be stack at designated place.		proposal	Nil
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechan:	ical	Nil
7c	Different grade of mineral sorted out at mines.	Cement grade & subgrade	Cement	grade & subgrade	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 was observed related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	given for	As per proposal	Nil

8b	Concurrent use or storage of topsoil	Concurrent use in plantation	As per proposal	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal given for waste dump & subgrade dumps	As per proposal.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	None	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	None	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1500 nos. sapling proposed over an area 1.5 ha during the year 2018-19.	5 1	Nil
8g	Survival rate	70%	70%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling was observed.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty is good in and around mine area.

Compliance of Rule 45:

SI.NO. ITEM PIOPASAIS ACTUAL WORK REMAINS	Sl.No. Item	Propasals	Actual work	Remarks
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9a Status of Annual return Returns submitted on Nil submission of submitted up time. Monthly and to year 2018-Annual returns 19 Monthly return submitted up to Dec. 2019. 9b Scrutiny of Mining Found correct. Nil Annual return Engineer : L S Pokharna for information on Mining Geologist : 0 Engineer, P Sharma Geologist and Manager : L S Pokharna Manager 9c Scrutiny of Pit area : Seems to be correct. Nil Annual return on 37.97 Ha land use pattern Waste Dumps & for area under subgrade dumps : 4.519 ha, pits, reclaimed area, dumps etc. Occupied by plant, building roads etc.-60.210 ha, Other work undr PMCP-14.110 9d No. of trees Seems to be correct. Scrutiny of Nil Annual return on planted : 1890 afforestation nos. (Inside ML) & 40 nos. (outside ML) 9e Scrutiny of No mineral No mineral reject Nil Annual return on reject generated. mineral reject generation generation shown (Grade and quantity) 9f Scrutiny of Closing stock Seems to be correct. Nil Annual return on of 564434 ROM stock and/or tonnes shown. This is graded ore subgrade limestone. 9g Scrutiny of Cost of Seems to be correct. Nil Annual return on producton sale value, Ex. shown-Rs. Mine price and 192.78 per production cost tonne 9h Scrutiny of Seems to be correct. Nil Rs. Annual return on 10015297502 fixed assets 9k Scrutiny of Machinary Found correct. Nil Annual return on details given mining machineries

Details of violations observed during current inspection and compliance position of violation pointed out				
Violatior	n observed	Show couse position		
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on	
MCDR17 Rule 11(1)	31-DEC-19			

Date :

(DATA RAM GURJAR)

Indian Bureau of Mines