INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Gandhinagar regional office

	Mine :	file No : RAJ/CHT/LST	-2	Mine code : 38RAJ09005
	(i)	Name of the Inspecting Officer and ID No.	g :	DJ03) DILIP JAIN
	(ii)	Designation	:	Senior Mining Geologist
	(iii)	Accompaning mine Official with Designation	:	Sri Lal Singh Pokharna, Mine Manager
	(iv)	Date of Inspection	:	17-AUG-23
	(v)	Prev.inspection date	:	31-OCT-22
		PA	RT-	I : GENERAL INFORMATION
1.	(a)	Mine Name	:	NIMBAHERA
	(b)	Registration NO.	:	IBM/418/2011
	(c) (d) (e) (f) (g) (h)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone Police Station First opening date Weekly day of rest		A Fully Mechanised Opencast RAJASTHAN CHITTORGARH NIMBAHERA NIMBAHERA KAILASH NAGAR 312617 (01477)-220562 manish.toshniwal@jkcement.(01477-220087 NIMBAHERA 24-JUN-71 WED
2.		ess for espondance	:	VILLAGE-NIMBHERA & AHIRPURA POST-NIMBAHERA,312617 DISTT-CHITTORGARH
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	:	RAJ0008 403.19 50 31-MAR-30
4.	Miner	cal worked	:	LIMESTONE Main

E 17-	ma and Address of	+ h -					
5. Na	me and Address of		T K Comor				
	Lessee	•	J.K. Cemer				
			P.O. KAILA NIMBAHERA	CHITTORGAR	H		
			RAJASTHAN				
			Phone:014				
			FAX :0147	77-220027			
	Owner	:	Ajay Kuma	ar Saraogi			
				nt Ltd Kamla			
			Tower, Kar UTTAR PRAI	npur KANPUR	URBAN		
				.2 - 2311478			
			FAX : 051	2 - 2364250			
	Agent	:	Manish Tos	shniwal			
	ngene			t Works Kail	ash		
			Nagar, Nir				
				RH RAJASTHAN			
				177-20087,22			
			FAX : 014	177-20087,22	0		
	Mining Enginee	r					
	Name	:	Pradeep Ku	umar Dewar,F	'ull Time		
	Qualification		BE Mining				
	Appointment/ Termination dat		01-JUN-23				
	Mining Enginee	r					
	Name		Ramesh,Ful	ll Time			
	Qualification	:	BE Mining				
	Appointment/ Termination da		23-SEP-21		04-MAR-23		
	Minine Treniero						
	Mining Enginee		Chulpham K				
	Name Qualification		BE Mining	ulmi,Full Ti	line		
	~	:	04-MAR-23		31-MAY-23		
	Termination da		04-MAR-25		51-MA1-23		
	Geologist						
	Name	:	Prashant 1	Fiwari,Full	Time		
	Qualification	:	Msc (Geolo	ogy)			
	Appointment/ Termination da	: te	02-AUG-21				
	Manager						
	Name	:	L.S.POKHAP	RNA			
	Qualification	:	BE MINING				
	Appointment/ Termination da	: te	19-AUG-21				
6. Da	te of approval of	Mini	.ng :	Mining Sch	eme rule 12	MCDR1988	23-APR-03
	an/Scheme of Minin			Modif.appro FMCP under Renewal und	oved Mining 23C(1) der rule 22	Scheme MCR1960	01-OCT-04 24-JAN-07 04-APR-08
				Mining Sche	eme rule 12	MCDKI988	26-JUL-13

MP review under 17(1) MCR 2016 06-DEC-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	104 nos of boreholes with 5595 m of drilling during previous year 2021-22.	Drilled 104 nos of boreholes with 8249.05m of drilling during previous pear 2021-22.	No backlog.
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during reporting year (RY) 2022-23.	No exploration during reporting year (RY) 2022-23.	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable as no proposal of exploration.	Not applicable	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	Not applicable	NIL
le	Balance reserve as on 01/04/20	Reserve and Resource: 18.09 and 32.05 million tons respectively. (as on 30/09/2019)	Reserve and Resource: 15.84 and 32.05 million tons respectively. (as on 01/04/2023)	NIL
lf	General remarks of inspecting officers on geology, exploration etc	No proposal of exploration.	Not applicable.	Geologically the lease area is uniform and the litho beds are generally sub- horizontal with gentle rolling dips.

Sl.No. Item Propasals Actual work Remarks

2a	Location of development w.r.t.lease area	Ahirpura and Murlia blocks.	Development was carried out in Murlia block and no work in Ahirpura Block during RY.	Development has been observed outside of the proposed limit in Murlia block. Violation of rule 11(1) of MCDR, 2017 issued.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)		Top soil and mineral removed separately.	NIL
2c	Stripping ratio or ore to OB ratio	1 : 0.02 t/t	1 : 0.04 t/t	Violation of rule 11(1) of MCDR, 2017 issued for deviation in stripping ratio.
2d	Quantity of topsoil generation in m3	4,895.10 CuM.	4867.13 CuM.	NIL
2e	Quantity of overburden generation in m3	15438.74 CuM or 22077.40 tons.	15382.62 CuM or 22000.00 tons.	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Opencast method of development has been proposed.	Opencast method of development is being practiced.	Development method proposed is suitable for the type of deposit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	block-1 pit	Production has been carried out form Murlia block.	Total three pits exists in lease area. Murlia block- two pits and Ahirpura block-one pit.
3b	Quantity of ROM mineral production proposed	856638.30 tons	502516.84 tons	Less production due to low demand.
3c	Recovery of sailable/usable mineral from ROM production	801097.50 tons	497566.84 tons	Less production due to low ROM production and low demand.
3d	Quantity of mineral reject generation	5000.00 tons	4950.00 tons	NIL

3е	Grade of mineral rejects generation and threshold value declared.	Between 34% to 42% CaO.	CaO- 39.64%	NIL
3f	Quantity of sub grade mineral generation.	No proposal.	Not applicable.	NIL
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized (crusher and screen plant).	Mechanized through crusher and screen plant located outside of the lease area.	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	Not applicable.	NIL
3j	Provision of drilling and blasting in mineral benches		Drilling and blasting are done as per the proposal. Slurry cap sensitive explosives & ANFO is used for blasting.	NIL
3k	Provision of mining machineries in mineral benches	Excavator, drill machine, dozer & Tipper etc.	Excavator, drill machine, dozer & Tipper etc.	NIL
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the benches has been proposed 8 and 7 meter in Ahirpura and Murlia block respectively.	Height of Benches has been maintained as per proposal.	NIL
3m	Total area covered under excavation/pits	102.66 hectare at the end of the plan period i.e. 2024-25.	100.88 hectare at the end of the RY i.e.2022- 23.	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.02 t/t	1:0.04 t/t	Violation of rule 11(1) of MCDR, 2017 issued.

30	Total area put in use under different heads at the end of year		An area of 133.18 hectare by the end of 2021-22.	NIL
Зр	Production of ROM mineral during the last five year period as applicable		2018-19:954556 2019-20:742609 2020-21:697329 2021-22:774236 2022-23:502516	Figures in tones.
Зq	General remarks of inspecting officers on method of mining etc.	Opencast method of Mining has been proposed.	Opencast method of mining is being practiced.	Method of mining proposed is suitable for 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)	of top soil and separate staking/dumpin		NIL
4b	Location of topsoil, OB and mineral reject dumps	of top soil. Dumping of the waste and Sub-	Top soil generated used for plantation purpose. Dumping of waste has been observed in Eastern side of the existing dump and also near boundary pillar P.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in location of waste dumping.
4c	Number of dumps within lease area and outside of lease area	Waste dump-1 and MR/Sub-	dumping outside lease	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside ultimate pit limit.	Outside ultimate pit limit.	NIL

4e	Number of active and alive dumps.	-	Waste dump: 1 MR/Sub-grade: 1	Few heaps of the waste material near boundary pillar P has been observed, violation of rule 11(1) of MCDR issued.
4f	Number of dead dumps.	No proposals	Not applicable.	NIL
4g	Number of dumps established.	No proposals	Not applicable.	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall: Yes Garland drain : Yes	Retaining wall and garland drain observed along waste dump.	NIL
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall: NIL Garland drain: 50m.	Retaining wall: 60m Garland drain: 50m.	NIL
4j	Number of settling ponds	No proposal	Not applicable	NIL
4k	Specific comments of inspecting officer on waste dump management	Separate dumping of IB and MR.	Dumping of waste has also observed over non- approved area near boundary pillar P and Eastern side of the existing dump.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in waste dumping.

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.	part or full extraction of	Not applicable as no proposal.	NIL
5b	Area under backfilling of mined out area	No proposal.	No backfilling during reporting year. However, an area of 2.82 hectare of Ahirpura block has already been backfilled.	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)		Top soil generated used for plantation purpose.	NIL

5d	Total area fully reclaimed and rehabilitated	No proposal.	Not Applicable	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of backfilling.	Not applicable as no proposal.	None of the area matured for backfilling.

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).	As per rule 26 of MCDR, 2017 holder of mining lease shall submit PMCP report before 1st day of July every year.	PMCP report for the year 2022-23 has been submitted.	NIL
6b	Area available for rehabilitation (ha) .	No proposal.	Not Applicable	NIL
бс	afforestation done (ha).	0.75 hectare.	4.54 hectare.	NIL
6d	No. of saplings planted during the year	1500 nos.	10761 nos.	NIL
бе	Cumulative no .of plants	Not Specified.	162199 nos.	NIL
6f	Any other method of rehabilitation	No proposal.	Not Applicable	NIL
6g	Cost incurred on watch and care during the year	Rs. 375000/-	Rs. 632760/-	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal.	Not Applicable.	NIL

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	Not Applicable.	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.	Not Applicable.	NIL
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	Not Applicable.	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1500 nos.	10761 nos.	NIL
бn	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.75 ha	4.54 ha	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 of environment parameters.	Monitoring is being carried out.	NIL

6q General remarks An area of An area of 4.54 hectare PMCP compliance is of inspecting 0.75 hectare with 10761 nos of satisfactory. officers on PMCP with 1500 nos saplings has been compliance and of saplings planted. progressive has been closure proposed to operations etc. plant.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM processing through Crushing and Screening.	ROM processing through Crushing and Screening.	Crusher located at Mangrol.
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanized (Crushing and screening).	Mechanized (Crushing and screening).	NIL
7c	Different grade of mineral sorted out at mines.	Cement Grade limestone and Mineral reject (Sub-grade).	Cement Grade limestone and Mineral reject (Sub- grade).	NIL
7d	Any beneficiation process at mines	No proposal.	Not applicable.	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	ROM processing through Crushing and Screening.	ROM is being processed through Crushing and Screening.	No issue related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	7000.00 tons	Top soil of 6960.00 tons was generated and utilized for plantation.	NIL
8b	Concurrent use or storage of topsoil		Top soil generated used for plantation purpose.	NIL

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)		Separate dumping of waste (IB) & MR/Sub- grade.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Not applicable.	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Not applicable.	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	An area of 0.75 hectare with 1500 nos of saplings has been proposed to plant.	An area of 4.54 hectare with 10761 nos of saplings has been planted.	NIL
8g	Survival rate	Survival rate- 85%	Survival rate - 88.50%	NIL
8h	Water sprinkling on roads to control airborne dust	sprinkling on	Water spraying observed.	NIL
8i 	General remarks of inspecting officer on aesthetic beauty in and around mines area	An area of 0.75 hectare with 1500 nos of saplings has been proposed to plant.	An area of 4.54 hectare with 10761 nos of saplings has been planted.	The general aesthetic beauty in and around lease area is satisfactory

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	_	Annual and Monthly returns of RY have been submitted.	NIL

9b Manager, Mining Engineer Scrutiny of Manager: LS NIL Annual return Pokharna, and Geologist appointed. for information Geologist: on Mining Prasant Engineer, Tiwari, Geologist and Mining engineer: Manager Parag Dangi 9c Scrutiny of Pit area: The information on land NIL Annual return on 100.88 Ha, use furnished appears in land use pattern Reclaimed order. for area under area: 2.82 Ha, pits, reclaimed Waste Dump: area, dumps etc. 2.55 Ha, Infrastructure : 27.73 ha, Mineral reject: 2.018 ha etc. 9d Scrutiny of Within lease Found in order. NIL Annual return on area: 10761 afforestation No. Outside Lease area: NIL Scrutiny of 9e Mineral reject Found in order. NIL Annual return on : 4950.00 tons mineral reject & CaO: 41.33% generation (Grade and quantity) 9f ROM stock: NIL Closing stock of sub-Violation rule Scrutiny of Annual return on and Limestone grade mineral has been 45(7) of MCDR, ROM stock and/or stock: shown in the cement 2017 issued. graded ore 419075.71tons. grade limestone. 9g Scrutiny of Ex Mine Price Captive use of NIL Annual return on and cost of limestone. sale value, Ex. production: Rs Mine price and 222.46/tons. production cost Sale value: Rs. NIL being a captive mine. 9h Scrutiny of Value of Fixed Appears in order. NIL Annual return on Assets: Rs. 166666472.00 fixed assets 9k Scrutiny of Back Hoe, Back Hoe, Tipper, Air NIL Annual return on Tipper, Air compressor, Drilling mining compressor, Machine, Water Tanker, machineries Drilling Explosive van, Pumps Machine, Water etc. Tanker, Explosive van, Pumps etc.

Details of violations observed during current inspection and compliance position of violation pointed out				
Violatio	n observed	Show couse position		
Rule NO.	Issued on Compliance o	n Rule NO.	Issued on Compliance on	
MCDR17 Rule 11(1)	15-SEP-23			
MCDR17 Rule 45(7)(a	a) 15-SEP-23			

Date :

(DILIP JAIN)

Indian Bureau of Mines