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INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION
MCDR inspection report
Goa regional office

- (i) Name of the Inspecting Officer and ID No. : (ASO) ABHIMANYU SINGH OGRA
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine Official with Designation : R M Jumanal, Mine Owner
- (iv) Date of Inspection : 01.07.2024
- (v) Prev. inspection date : 06.02.2023

PART-I : GENERAL INFORMATION

1.	(a)	Mine Name	:	Naganapur Limestone Mine, ML No. 001
	(b)	IBM Registration Number under rule 45 of MCDR, 1988	:	IBM/19971/2015
	(c)	Mine code	:	38KAR26092
	(d)	Type of Working (Opencast, Underground)	:	Opencast
	(e)	Category (Fully Mechanized, Others or Manual)	:	Cat. A, Other than Fully Mech.
	(f)	Captive/ Non captive	:	Non-captive
	(g)	Postal Address		
		Village	:	Naganapur
		Taluk/Mandal	:	Mudhol
		District	:	Bagalkot
		Pin code	:	587122
		State	:	Karnataka
		Post office	:	Lokapur
		Nearest police station	:	Lokapur
		Nearest Railway station	:	Bagalkot
2		Address for correspondance	:	P.O.-LOKAPUR, TALUKA-MUDHOL, DISTRICT - BAGALKOT, KARNATAKA - 587 122.

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3	(a)	Total Lease Area (Ha) with breakup of Non-forest and forest land	:	8.10 Ha., Non-Forest
	(b)	Date of Grant of Mining Lease	:	09.01.2017
	(c)	Date of Execution	:	09.01.2017
	(d)	Date of opening of Mine	:	13.03.2017
	(e)	Date of expiry	:	08.01.2067; as per MMDR Amendment Act, 2015
4		Mineral(s) granted in lease and proved for mining	:	Limestone
5	(a)	Name of the lessee, Address, phone, email and fax number	:	M/s Sri Nandi Mining Company SECTOR NO. 63-A, PLOT NO.114(S), NAVANAGAR, BAGALKOT-587 103 KARNATAKA BAGALKOT KARNATAKA Phone:08354 235006
	(b)	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	:	
	(c)	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	:	
	(d)	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	:	Sri. Nagayya Bhixwati A/p Lokapur Tq: Mudhol, Dist :Bagalkot Cell no:9686168044
	(e)	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	:	Sri Bipin. G .K B.E (Mining) 10 years M/s Sri Nandi Mining Company A/p Lokapur Tq: Mudhol, Dist :Bagalkot Dt:-1-06-2020
	(f)	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	:	Sri Pawan Kumar Varimadugu M.Sc. Geology, 5 Years M/s Sri Nandi Mining Company A/p LokapurTq: Mudhol, Dist :Bagalkot Dt:-01.05.2024
6		Date of Approval of Mining Plan/Review of Mining Plan/Modified Mining Plan with five-year period and specific	:	MP/OTF-MECH-78 (KNT)/GOA/2015-16 Vol.1 ; Dt:- 19-11-2015

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condition in approval letter, if any.	RMP/MECH-05 (KNT)/GOA/2020-21 - RMP for the period from 2021-22 to 2025- 26 is approved on 08/02/2021
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PART - II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	G1 proposed	Exploration has been completed under G1 axis	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No proposal	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserves as on <u>01.04.2024</u>		111-2830410 Mt 211-3029866 Mt. As on 01.04.2024.	
1f	General remarks of inspecting officer on geology, exploration etc.	The exploration has been completed under G-1 axis as per the approved plan document.		

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit working proposed between the cross sections B-B' to D-D' between N 1789095 to 1789428, E	Pit working observed between the cross sections B-B' to D-D' between N 1789095 to 1789428, E	

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		536911 to 537134	536911 to 537134
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Benches only in ore proposed.	No Separate Benches for O.B. Proposed Mineral benches found as per approved document.
2c	Stripping ratio or ore to OB ratio	1: 0.016	1:0.092
2d	Quantity of topsoil generation in m3	2293	0
2e	Quantity of overburden generation in m3	2041	11350
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Mine development is found in accordance to approved mining plan document.	

Exploitation :

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	Single pit proposed.	Single pit worked,	
3b	Quantity of ROM mineral production proposed	124987 Mt	122500 Mt	
3c	Recovery of salable/usable mineral from ROM production	124987 Mt	122500 Mt	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Not applicable	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	

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3g	Grade of sub-grade mineral generation	No proposal	Not Applicable.
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil
3j	Provision of drilling & blasting in mineral benches	35 Ø mm J H Holes Blasting With Slurry Explosive Proposed	35 Ø mm J H Holes Blasting With Slurry Explosive
3k	Provision of mining machineries in mineral benches	Hydraulic Excavator and Tipper Proposed	Hydraulic Excavator and Tipper
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5 Mts	Benches are maintained as per approved document.
3m	Total area covered under excavation/pits	5 Ha. proposed in the approved RMP at the end of F.Y. 2025-26.	4.2 Ha. at the end of F.Y 2023-24. Actual area utilizations are furnished as per the submitted AR of F.Y 2023-24.
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.016	1 : 0.092
3o	Total area put in use under different heads at the end of year	Area under mining: 5 Ha., Mineral Storage 0.05 Ha, Top soil stacking:0.33 Ha. Waste Dump: 0.32 Ha. Road and Infrastructure : 0.14 Ha.	Area under mining: 4.2 Ha., Mineral Storage 0 Ha, Top soil stacking:0.16 Ha. Waste Dump: 0.36 Ha. Road and Infrastructure : 0.287Ha. Actual area utilizations are furnished as per the submitted AR of F.Y 2023-24. Proposals are given as per the approved RMP, at the end of F.Y. 2025-26

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		Total Area =	Total Area =
		5.84 Ha	5.00 Ha
3p	Production of ROM mineral during last five-year period, as applicable	2019-20:124987 2020-21:124987 2021-22:124987 2022-23:124987 2023-24:124987	2019-20:70000 2020-21:70000 2021-22:73400 2022-23:80750 2023-24:122500
		(in Mt Limestone)	(in Mt Limestone)
3q	General remarks of inspecting officer on method of mining etc.	Semi Mechanised mining is being carried out by Opencast method. The benches are being maintained as per approved document	

Solid Waste Management-Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate disposal of topsoil and OB proposed.	Top soil and OB waste are separately stacked	
4b	Location of topsoil, OB & mineral reject dumps	O B:Northing: 1789419 to 1789453 Easting:537042 to 537101 Top soil Northing: 1788940 to 1789000 Easting:536860 to 536970	O B: Northing: 1789370 to 1789460 Easting:537040 to 537150 Top soil Northing: 1788960 to 1788980 Easting:536870 to 536970	
4c	Number of dumps within lease area and outside lease area	1 no. top soil dump and 1 no. waste dump proposed.	Lease area = 1+1 Non Lease area = 0	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Temp. Dumps	Temp. dump out of UPL.	
4e	Number of active & alive dumps	2 nos. of active dump proposed	2 nos. of active dumps	One each for topsoil and for OB waste.
4f	Number of dead dumps	Nil	Nil	

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4g	Number of dumps stabilized	No proposal	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	Proposed	Retaining wall and garland drains constructed along the periphery of the dumps. Retaining wall at Top soil dump was not maintained properly
4i	Length of Retaining wall or garland drain all along dump	Garland drain- 140m Retaining wall- 130m	Garland drain- 140m Retaining wall- 130m
4j	Number of settling ponds	No proposal in FY 2023-24 Previously - 1 nos	1no constructed
4k	Specific comments of inspecting officer on waste dump management.	Existing retaining wall at top soil storage was not found maintained properly, violation of rule 11(1) of MCDR,2017 issued.	

Solid Waste Management-Backfilling :

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil as the mine pit is not matured for backfilling.	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Nil	

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5d	Total area fully reclaimed & rehabilitated	No proposal	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mine pit is not matured for backfilling since mineral persists at the bottom of mine workings.	

Progressive Mine Closure Plan :

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Proposed.	Submitted for F.Y. 2023-24 along with AR.	
6b	Area available for rehabilitation (ha)	No proposal	Nil	
6c	Afforestation done (ha)	0.15 Ha. during 2023-24	0.7 Ha along the safety barrier areas.	
6d	No. of saplings planted during the year	150 nos.	300 nos. within the ML area in FY 2023-24.	
6e	Cumulative no. of plants	Not specified.	Apprx. 3400 nos. saplings planted within ML.	Plantation has been observed in the barrier zone and near mine office
6f	Any other specific method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch & care during the year	Not specified	Rs. 40000 as stated by the management representatives.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D)	No proposal	Not applicable	

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6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings	No proposal	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area	No proposal	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	No proposal	Not applicable
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	No proposal	Not applicable
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha)	No proposal	Not applicable
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Not applicable
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed.	submitted
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Yearly PMCP report has been submitted. Area not matured for backfilling as the full extraction of the mineral not undertaken in any part of the mine.	

Mineral Conservation :

Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM directly to the Cement Plant and grade wise sorting & sizing.	ROM directly to the Cement Plant and grade wise sorting & sizing.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual sorting & sizing.	Manual sorting & sizing.
7c	Different grade of mineral sorted out at mines	Yes	Yes
7d	Any beneficiation process at mines	No proposal	Nil
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mineral is being dispatched directly to the consuming industries after sizing & sorting.	

Environment :

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Stacking and Utilizing for Plantation.	
8b	Concurrent use or storage of topsoil	Stacking and Utilizing for Plantation.	Stacking and Utilizing for Plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for OB.	Separate dump for OB.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	

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8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation of local Spices	Approx 2000 nos of plantation has been observed.	
8g	Survival rate	Not specified	60%	As mentioned in Fy2023-24 AR
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water tanker arrangement for water sprinkling on mine roads has been made.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around mines area is good	

Compliance of Rule 45 :

S1.No.	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to May 2024 A.R. Submitted up to 2023-2024	Date of submission of AR was 19.06.2024.

S.N.	Item	Propasals	Actual work	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist appointed.	Mining Engineer - Sri Bipin. G .K, B.E (Mining) Geologist - Sri Anil Kumar Hadagali M.Sc. Geology	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Area under mining: 5 Ha., Mineral Storage 0.05 Ha, Top soil stacking:0.33 Ha. Waste Dump: 0.32 Ha. Road and	

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			Infrastructure : 0.14 Ha.
			Total Area = 5.84 Ha
9d	Scrutiny of Annual return on afforestation	Yes	300 nos. within the ML boundary.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Yes	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	BF - 2203 Mt Cement - 1805 Mt
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Yes	Ex. Mine price of Limestone: BF grade - 547 Rs/tonne Cement grade - 290 Rs/tonne Production cost.- 345.30 Rs/tonne
9i	Scrutiny of Annual return on fixed assets	Yes	Value of Fixed Assets (in .) 8561102
9k	Scrutiny of Annual return on mining machineries	Yes	Hy. Excavators - 2 Tipper - 1 Compressor - 2 Water Tanker - 1

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

<u>Violation observed</u>			<u>Show cause position</u>		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR 17 Rule 11(1)	30.07.2024				

(Abhimanyu Singh Ogra)**Indian Bureau of Mines**