

MCDR-MIFLOLST/2/2023-GOA-IBM\_RO\_GOA  
INDIAN BUREAU OF MINES

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/30033/2024

Review and updation of Mining Plan REPORT

Goa regional office

Mine file No : KNT/BJP/LST-75/GOA

Mine code : 38KAR26055

- (i) Name of the Inspecting : K07 ) KRISHNENDU CHATTERJEE  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/Shri D. Prahlada-Manager, Shaswant K. Lenka- ME  
Official with  
Designation
- (iv) Date of Inspection : 11-OCT-23
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) Mine Name : HALKI NINGAPUR (ML. NO. 2)
- (b) Registration NO. : IBM/784/2011
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :  
State : KARNATAKA  
District : BAGALKOT  
Village : Mingapur  
Taluka : Mudhol  
Post office :  
Pin Code :  
FAX No. : NA  
E-mail : accounts.navodayaminerals@  
Phone : 08350-240093, Mob-94808385'
- (f) Police Station : Lokapur
- (g) First opening date : 18-DEC-04
- (h) Weekly day of rest : TUE
2. Address for :  
correspondance :
3. (a) Lease Number : KAR1402
- (b) Lease area : 4.86
- (c) Period of lease : 50
- (d) Date of Expiry : 17-DEC-54
4. Mineral worked : DOLOMITE Associated  
LIMESTONE Main

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## 5. Name and Address of the

Lessee : NAVODAYA MINERALS  
P.O.-LOKAPUR TALUKA-MUDHOL  
BAGALKOT KARNATAKA  
Phone:08350-240308/309  
FAX :

Owner : NAVODAYA MINERALS( M. Venu, partner)  
High School Grounds Lokapur  
Tq-Mudhol BAGALKOT  
KARNATAKA  
Phone:  
FAX :

Geologist  
Name : Prasanna Kumar K.N., Full Time  
Qualification : Msc in Earth science & Resource Manageme  
Appointment/ : 01-JUN-18  
Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	06-SEP-04
Plan/Scheme of Mining		Modif.of approved Mining Plan	15-FEB-07
		Mining Scheme rule 12 MCDR1988	24-JUL-09
		Modif.approved Mining Scheme	20-NOV-12
		Mining Scheme rule 12 MCDR1988	30-OCT-14
		MP review under 17(1) MCR 2016	16-JAN-19

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## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil during F.Y 2022-23.	03 nos. of DTH holes drilled in F.Y 2023-24.
1b	Exploration over lease area for geological axis 1 or 2	G1	G1: 4.856 Ha.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	By Lessee.	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 proposed.	G1 achieved.	
1e	Balance reserve as on 01/04/20		1.854 million tonnes of Limestone & 0.151 million tonnes of Dolomite. As on 01.04.2023.	Limestone quality: CaO 45% Dolomite quality: MgO 20%.
1f	General remarks of inspecting officers on geology, exploration etc			Entire ML area is explored by the lessee under G1 level by drilling with 03 nos. of DTH and 10 nos. of core boreholes.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1793220 N to 1793380 N and 528600 E to 528830 E	1793220 N to 1793380 N and 528600 E to 528830 E	No change in development area.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in ore proposed.	Benches in Ore: 3 Benches in Overburden: 0	
2c	Stripping ratio or ore to OB ratio	No proposal	Nil	No OB generation proposed.
2d	Quantity of topsoil generation in m3	No proposal	Nil	

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2e	Quantity of overburden generation in m3	No proposal	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No waste generated in the mine during 2022-23.

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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed	Single pit.	Dimension of existing pit was: 180m x 140m x 15m
3b	Quantity of ROM mineral production proposed	60,000 tonnes of Limestone & 10,000 tonnes of Dolomite	Limestone: 33,374 tonnes and Dolomite: 10,000 tonnes of production were reported in 2022-23.	
3c	Recovery of sailable/usable mineral from ROM production	100% recovery of ROM proposed for Limestone & Dolomite ROM	100% recovery	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not applicable	As reported by the lessee during inspection.
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	Not Applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Mechanised mine	

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	
3j	Provision of drilling and blasting in mineral benches	Proposed to drill by jack hammer and blasting using slurry and UNFO	Jack Hammer Drilling and Blasting with Slurry Explosive and ED with 25mm diameter hole.	
3k	Provision of mining machineries in mineral benches	Air Compressor-1 Excavator-1 Tipper-1 Water Tanker-1	Air Compressor-1 Excavator-1 Tipper-1 Water Tanker-1	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5m bench height proposed.	Average height 5m is maintained	
3m	Total area covered under excavation/pits	2.964 Ha. at the end of F.Y. 2023-24.	2.60 Ha.	Actual area utilizations are furnished as per the approved RMP dated 23.02.2024
3n	Ore to OB ratio for the pit/mine during the year.	No proposal	Nil	No OB generation proposed.
3o	Total area put in use under different heads at the end of year	Area under mining: 2.96 Ha. Mineral Storage: 0.09 Ha. Infrastructure s & Road: 0.076 Ha. Green belt: 0.88 Ha.	Area under mining: 2.60 Ha. Mineral Storage: 0.30 Ha. Infrastructures & Road: 0.10 Ha. Green belt: 0.85Ha.	Actual area utilizations are furnished as per the approved RMP dated 23.02.2024

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3p	Production of ROM mineral during the last five year period as applicable	Limestone & Dolomite: 2018-19: 80,000 2019-20: 70,000 2020-21: 70,000 2021-22: 70,000 2022-23: 70,000 (in tonnes)	Limestone & Dolomite: 2018-19: 28,500 2019-20: 37,500 2020-21: 42,000 2021-22: 39,221 2022-23: 43,374 (in tonnes)
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3q	General remarks of inspecting officers on method of mining etc.	Production of ROM was less than proposal due to less demand from consumer market.
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## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal	Not applicable	
4b	Location of topsoil, OB and mineral reject dumps	No proposal	Not applicable	Top soil was earlier utilized for plantation along the 7.5m safety barrier.
4c	Number of dumps within lease area and outside of lease area	No dumping proposal within or outside lease area.	No waste dump is found located within or outside lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Not applicable	
4e	Number of active and alive dumps.	No proposal	Nil	
4f	Number of dead dumps.	No proposal	Nil	
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Not applicable	

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4i	Length of Retaining wall or garland drain all along dumps	No proposal	Not applicable	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			No waste dump is located within the ML area.

#### 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 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 mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mine pit is not matured for backfilling since mineral persists at the bottom of mine workings.

#### 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).	Proposed.	Submitted for F.Y. 2022-23	

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6b	Area available for rehabilitation (ha) .	No proposal	Nil
6c	afforestation done (ha).	0.176 Ha. during 2022-23	0.176 Ha. along the 7.5m safety barrier areas.
6d	No. of saplings planted during the year	150 nos.	150 nos. within the ML area in 2022-23.
6e	Cumulative no .of plants	Not specified.	Apprx. 1200 nos. saplings planted along the safety barrier.
6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	Not specified	Rs. 45,000/- as reported by the lessee representative
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	Not applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on 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



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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 rehabilitation (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 and buffer zone)	Proposed.	Environmental monitoring is carried out periodically and parameters are found within stipulated limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Apprx. 1200 nos. saplings were planted within the ML area along the safety barrier. PMCP compliances are being done as per approved proposal.

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**Mineral Conservation:**

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch proposed after sizing and sorting.	ROM & grade wise dispatch after sizing and sorting.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical sizing and sorting.	Mechanical sizing and sorting by crusher.	Crusher has been installed within ML area for sizing and screening of ore.
7c	Different grade of mineral sorted out at mines.	Proposed for all +34% CaO in respect of Limestone.	BF grade Limestone dispatch reported in F.Y. 2022-23.	
7d	Any beneficiation process at mines	No proposal	Nil expect crushing and dry screening.	

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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Grade wise mineral being dispatched from the mine after sizing and sorting of ores. 35213.69 tonnes of BF grade Limestone and 10,000 tonnes of Dolomite were dispatched from the mine during 2022-23.
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	No Top Soil generation in F.Y. 2022-23	
8b	Concurrent use or storage of topsoil	No proposal	Not applicable	Top soil earlier used for plantation along the safety barrier zone.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dumping of waste is proposed.	Separate dumping of waste has been made.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Mine pit is not matured for backfilling.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed during conceptual stage.	Not applicable as of now.	

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed.	Apprx. 1200 nos. saplings were planted within ML area.	
8g	Survival rate	Not specified.	60 to 70%	
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 around the ML area was good.

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to Feb. 2024 & A.R. Submitted up to 2022-2023		Date of submission of AR was 25.06.2023.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri D. Prahlada Mining Engineer: Shri Shaswant Kumar Lenka Geologist: Shri V. Anand Kumar	Manager: Shri D. Prahlada Mining Engineer: Shri Shaswant Kumar Lenka Geologist: Shri V. Anand Kumar	Manager: Shri D. Prahlada Mining Engineer: Shri Shaswant Kumar Lenka Geologist: Shri V. Anand Kumar
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Manager: Shri D. Prahlada Mining Engineer: Shri Shaswant Kumar Lenka Geologist: Shri V. Anand Kumar	No change.	
9d	Scrutiny of Annual return on afforestation	150 nos. within ML area.	150 nos.	

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9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Furnished as Nil	No mineral reject generation in 2022-23.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stocks: Nil in respect of Limestone and Dolomite both. Graded ore closing Stock of BF grade Limestone: 3965.79 tonnes. Graded ore closing Stock of Dolomite: 406.74 tonnes.	Actual was also same at that time as per mine production and dispatch register.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-Mine Price for BF grade Limestone: Rs. 636/ tonne and Ex-Mine Price for Dolomite: Rs. 771/tonne Production Cost: Rs. 434.57 /tonne	Some of the invoices were checked during inspection and sale value given was found correct.
9h	Scrutiny of Annual return on fixed assets	Net closing balance is furnished as Rs. 7240,000/-	Net closing balance and estimated market values are mentioned in AR.
9k	Scrutiny of Annual return on mining machineries	Air Compressor-1 Excavator-1 Tipper-1 Water Tanker-1	No change.

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

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

**Date :****(KRISHNENDU CHATTERJEE)**

Indian Bureau of Mines