

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR inspection REPORT**

**Goa regional office**

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

**Mine code :** 38KAR26055

- (i) Name of the Inspecting : **SP01** ) **SURESH PRASAD**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri D. Prahlada: Mine Manager.  
Official with  
Designation
- (iv) Date of Inspection : 01-SEP-21
- (v) Prev.inspection date : 14-OCT-20

**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 : 4.85
- (c) Period of lease : 20
- (d) Date of Expiry : 17-DEC-24
4. Mineral worked : DOLOMITE Associated  
LIMESTONE Main

## 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

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	3 Nos DTH Holes to explore balance 0.856 ha areain 2020-21	NIL	Violation issued
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Balance area to be explored to bring Geological axis 1 = 0.856 ha.	NIL	Violation issued
1e	Balance reserve as on 01/04/20		As on 01/04/2021 Under 111 category Limestone - 1960529 te Dolomite - 161389 te	As per AR 2020-21 Limestone CaO +34%, Dolomite MgO 15%
1f	General remarks of inspecting officers on geology, exploration etc		As per Review & updation of Mining Plan (RMP) approved dtd. 16.01.2019, out of 4.856 Ha Lease area, 4 ha. covered under Geological axis- 1 exploration. However, in view of deviation w r to approved RMP proposal on exploration in remaining area 0.856 ha; violation is issued.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	No proposal for development/waste removal in the year 2019-20	NIL	As per Review & updation of Mining Plan (RMP) approved dtd. 16.01.2019, anticipated recovery of Limestone and Dolomite is 100% and the area is devoid of top soil & overburden/intercalated waste.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not applicable	Not applicable	All the proposal given for the mineral benches only.
2c	Stripping ratio or ore to OB ratio	1:0.00	1:0.00	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	Nil	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			As per Review & updation of Mining Plan (RMP) approved dtd. 16.01.2019, anticipated recovery of Limestone and Dolomite is 100% and the proposed excavation area is devoid of topsoil & overburden/intercalated waste. Hence, proposal is given for excavation of mineral only.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	
3b	Quantity of ROM mineral production proposed	60000 tones Limestone 10000 tones Dolomite	42000 tones Limestone & 10000 tones Dolomite	

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3c	Recovery of sailable/usable mineral from ROM production	100 % recovery from ROM	100 % recovery from ROM	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
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	Jack hammer Drilling & Blasting with 25 mm dia	Jack hammer Drilling & Blasting with 25 mm dia	
3k	Provision of mining machineries in mineral benches	By deploying small excavator & tipper	By deploying small excavator & tipper	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height - 5m Bench Width - 9m	As per proposal	Observed few areas under rectifications for maintaining the systematic shape benches.
3m	Total area covered under excavation/pits	2.964 Ha. for 05 years plan period	Till FY 2020-21 : 2.430 ha	As per Annual Return submitted for 2020-21
3n	Ore to OB ratio for the pit/mine during the year.	1:0.00	1:0.00	

3o	Total area put in use under different heads at the end of year	4.014 Ha. For 05 years plan period	Till FY 2020-21: 3.042 ha	As per Annual Return submitted for 2020-21.
3p	Production of ROM mineral during the last five year period as applicable	Limestone 2016-17- 80000 2017-18- 80000 2018-19- 80000 2019-20- 80000 2020-21- 60000 Dolomite 2016-17- 20000 2017-18- 20000 2018-19- 20000 2019-20- 20000 2020-21- 10000	Limestone 2016-17- 25000 2017-18- 14000 2018-19- 28500 2019-20- 37500 2020-21- 42000 Dolomite 2016-17- 4000 2017-18- 4350 2018-19- 10300 2019-20- 7500 2020-21- 10000	Unit-Tones. ROM figure is mentioned as per latest RMP approved on 16.01.2019 and Annual Return submitted for 2020-21.
3q	General remarks of inspecting officers on method of mining etc.		Drilling & blasting with jackhammer of small dia 32 mm and by deploying small capacity backhoe with tipper combinations.	

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not Applicable	Not Applicable	There are no dumps of Topsoil, OB & Mineral Rejects and also not proposed.
4b	Location of topsoil, OB and mineral reject dumps	Not Applicable	Not Applicable	
4c	Number of dumps within lease area and outside of lease area	Lease area = Nil Non Lease area = Nil	Lease area = Nil Non Lease area = Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Applicable	Not Applicable	
4e	Number of active and alive dumps.	NIL	NIL	
4f	Number of dead dumps.	Not Applicable	Not Applicable	
4g	Number of dumps established.	Not Applicable	Not Applicable	

4h	Whether Retaining wall or garland drain all along dumps are there.	Not Applicable	Not Applicable
4i	Length of Retaining wall or garland drain all along dumps	Not Applicable	Not Applicable
4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management		No proposal/ achievement for development/ waste removal and 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.	Not Applicable	Not Applicable	No part of the Lease Area has exhausted/ matured for backfilling
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mineral has not been exhausted from any part of the lease, hence backfilling/ reclamation has not been envisaged.	

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Submitted	Submitted
6b	Area available for rehabilitation (ha) .	0.176 Ha	0.176 Ha
6c	afforestation done (ha).	0.176 Ha	0.176 Ha
6d	No. of saplings planted during the year	400 nos.	400 nos.
6e	Cumulative no .of plants		
6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year		
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	No proposal	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil



6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	EMR to be Submitted	Submitted	Observed in order
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Satisfactory	

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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 / grade Wise dispatch after size reduction	ROM/grade Wise being Despatched after size reduction	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Yes	Yes	BF grade for limestone

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7d	Any beneficiation process at mines	Nil except Dry Crushing & screening	Nil except Dry Crushing & screening
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		ROM/grade Wise mineral being despatched after dry Crushing as per requirement. One Crusher is installed.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	Topsoil is not available in the ML area, So its removal has not been proposed.
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not applicable	Not applicable	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Existing Plantation reported - about 400 nos.
8g	Survival rate	65%	65%
8h	Water sprinkling on roads to control airborne dust	Water Tanker to be used	Water Tanker used for Sprinkling
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around mines area appears to be good.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted being Submitted & AR Submitted for FY 2020-21		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager-1, Geologist-1, Mining Engineer- Nil	Mining engineer/ geologist have not found available during the inspection in the mine.	Violation issued in this respect
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current O/C working 2.430 ha No. of Plantation-400 Survival rate-65%	Covered under current O/C working 2.430 ha	
9d	Scrutiny of Annual return on afforestation	No. of Plantation-400 Survival rate-65%	No. of Plantation-150 Survival rate-65%	

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9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock : Nil Garde wise- BF grade 6951.450 te Cement grade - 780.94 te	ROM stock : Nil Garde wise- BF grade 6951.450 te Cement grade - 780.94 te	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine Price Limestone BF grade - 498 Rs/T, Cement grade - 263 Rs/T Dolomite- 480 Rs/T Cost of Production: - 402.11Rs/T	Sample invoice checked	Found in order
9h	Scrutiny of Annual return on fixed assets	Net Value of Fixed Assets (in Rs.) 4017199	Net Value of Fixed Assets (in Rs.) 4017199	
9k	Scrutiny of Annual return on mining machineries		Shovel 0.9 cum -01 Tipper 03 CUM -01 Air compressor 01 & water tanker 01 no.	

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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
MCDR17	Rule 11(1)	13-OCT-21			
MCDR17	Rule 55(1)(3)	14-SEP-21			

**Date :**

(SURESH PRASAD)

Indian Bureau of Mines