

**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 : P01) PREM PRAKASH
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/SHRI THIPPESH, ASSTT. MANAGER AND SHIVKUMAR, OFFICE
Official with
Designation
- (iv) Date of Inspection : 14-OCT-20
- (v) Prev.inspection date : 07-MAR-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	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Proposal for (2019-20) : Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	--	--	No exploration proposal was given for the year 2019-20
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.	exploration proposal is given for the year 2020-21	
1e	Balance reserve as on 01/04/20		Cat. 111 : 2002529 te limestone & 171389 te Dolomite	As per Annual Return submitted for 2019-20
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	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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 top soil & overburden/intercalated waste. Hence, proposal is given for excavation of mineral only.	

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	Proposals (2019-20) : 60000 tonne Limestone 10000 tonne Limestone	37500 tonnes Limestone 7500 tonnes Dolomite	
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	
3f	Quantity 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	No	
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	small excavator & tipper deployed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Formation of systematic regular benches of 5m height and 9m width proposed	However, during inspection, it was observed that pit benches were not maintained in regular and systematic manner	Violation issued in this respect
3m	Total area covered under excavation/pits	2.964 Ha. For 05 years plan period	Till FY 2019-20 : 2.421 ha	As per Annual Return submitted for 2019-20
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 2019-20 : 3.033 ha.	As per Annual Return submitted for 2019-20

3p	Production of ROM mineral during the last five year period as applicable	2015-16 80,000 tonnes Lime stone & 20,000 Dolomite 2016-17 80,000 tonnes Lime stone & 20,000 Dolomite 2017-18 80,000 tonnes Lime stone & 20,000 Dolomite 2018-19 80,000 tonnes Lime stone & 20,000 Dolomite 2019-20 60,000 tonnes Lime stone & 10,000 Dolomite	2015-16 41,000 tonnes Lime stone & 5,000 tonnes dolomite 2016-17 25,000 tonnes Lime stone & 4,000 tonnes dolomite 2017-18 14,000 tonnes Lime stone & 4,350 tonnes dolomite 2018-19 28,500 tonnes Lime stone & 10,300 tonnes dolomite 2019-20 37,500 tonnes Lime stone & 7,500 tonnes dolomite	ROM figure is mentioned as per latest RMP approved on 16.01.2019 and Annual Return submitted for 2019-20.
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3q	General remarks of inspecting officers on method of mining etc.	Pit working/excavation approved to be carried out in year 2019-20 & 2020-21 in the northern side of Lease area (in-situ area) and north-eastern side of Pit/Lease area respectively up to the depth of RL 582 m. However, Pit working/excavation observed lagging far behind than approved in the northern and north-eastern part of the Pit/Lease area; and working/excavation being carried out in the central and southern part of the Pit/Lease area. Violation issued in this respect.
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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)	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
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 for development/ waste removal and waste dumping is given in approved RMP dtd. 16.01.2019.

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 and approved in RMP dtd. 16.01.2019.

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).	To be Submitted	Submitted	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.176 Ha	About 1.75 Ha	
6d	No. of saplings planted during the year	400 Nos	about 150 Nos.	
6e	Cumulative no .of plants		About 500 Nos.	
6f	Any other method of rehabilitation	About 500 Nos.		
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	Environment monitoring records were not made available during inspection.	Violation issued in this respect
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		As per approved RMP (PMCP), air pollution will be controlled by adopting of dust suppression measures. However, no such dust suppression system observed provided in the Crushing and screening plants. Violation issued in this respect.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM / grade Wise despatch 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	
7d	Any beneficiation process at mines	Dry Crushing & screening	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.	

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	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Existing Plantation reported - about 500 nos.	
8g	Survival rate		About 70%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Complied with	
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.	

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 2019-20	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager-1, Geologist-1, Mining Engineer- Nil	Mining engineer and geologist have not been employed 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) Workings : 2.421Ha	Covered under current (O/C) Workings : 2.421Ha	
9d	Scrutiny of Annual return on afforestation	No. of Plantation-150 Survival rate-70%	No. of Plantation-150 Survival rate-70%	
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	ROM stock : Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price : (Rs.per Te) : 424.33 for limestone & 383.53 for Dolomite	Ex. Mine price : (Rs.per Te) : 424.33 for limestone & 383.53 for Dolomite	
9h	Scrutiny of Annual return on fixed assets	Nil	Whereas, Mine is under operation with the help of mining machineries, processing plant etc.	Violation issued in this respect.
9k	Scrutiny of Annual return on mining machineries	i) Air Compressor-1 ii) Front End loader-1 iii) Dumper-1 iv) Water Tanker-1	deployed	

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-NOV-20			
MCDR17	Rule 31(4)	13-NOV-20			
MCDR17	Rule 45(7)(a)	13-NOV-20			
MCDR17	Rule 55(1)(3)	13-NOV-20			

Date :

(PREM PRAKASH)

Indian Bureau of Mines