

**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 :
Official with
Designation
- (iv) Date of Inspection : 07-MAR-20
- (v) Prev.inspection date : 23-AUG-18

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@l**
- 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	G1 or G2	G1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	Not applicable	Exploration work completed upto G1 level
1e	Balance reserve as on 01/04/20	As on 20.12.2018 under (111) - 20,40,029 Te (as per the RMP)	As on 1.4.2019 Under (111) -17,47,152Te (as per AR 2018-19)	Reserve updated in the approved RMP based on the exploration.
1f	General remarks of inspecting officers on geology, exploration etc		Lease area is covered under G1 level of exploration.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Cross section between DD' to FF'	Development of pits are observed in lagging as less achievement of production / development	The intercalated waste as generated being treated as OB/waste.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Nil	Nil	Benches are developed in Ore Only
2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.05	The intercalated waste as generated being treated as OB/waste.(Te:te)
2d	Quantity of topsoil generation in m3	NIL	NIL	

2e	Quantity of overburden generation in m3	11111 te	2020 te
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The intercalated waste as generated being treated as OB/waste.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1 Pit	1 Pit	
3b	Quantity of ROM mineral production proposed	Limestone-80,000Te Dolomite-20,000te	Limestone-28,500te Dolomite - 10,300te	As per approved RMP &AR 2018-19
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	TLV- 35%CaO,
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	Mechanised	Mechanised	Dry screening & crushing
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	

3j	Provision of drilling and blasting in mineral benches	Provided	Provided	JH Hole with Electronic detonator
3k	Provision of mining machineries in mineral benches	Provided	Provided	small capacity excavator and tippers.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m	Observed deviation	Violation issued for rectification.
3m	Total area covered under excavation/pits	As per the approved RMP (dtd 16.01.2019) :- 2.286 Ha. at the start of plan	As per the Annual return 2018-19 as on 1.4.2019 3.20 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0.05	The intercalated waste as generated being treated as OB/waste.(Te:te)
3o	Total area put in use under different heads at the end of year	As per the approved RMP (dtd 16.01.2019 4.014 Ha.	3.877 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15 to 2018-19 Limestone 4.00 LT Dolomite -2.0 LT	2014-15 to 2018-19 Limestone 1.205 LT Dolomite -0.246 LT	Figures, as per the approved RMP & AR 2018-19. (LT- Lakh Tonnes)
3q	General remarks of inspecting officers on method of mining etc.		The benches were not maintained properly in systematic manner as proposed.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NIL	NIL	No dump formations proposed/ achieved.

4b	Location of topsoil, OB and mineral reject dumps	NIL	NIL	OB generation is very less in the form of intercalated waste.
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.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Not applicable
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			Waste generation is very less in the form of intercalated waste; The wastes are generated in the form of intercalated waste and are used for road maintenance etc. purposes only.

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.	Nil	Area not 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.		Mined out area not matured for backfilling and for R&R.

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	complied	Submitted for the year 2018-19.
6b	Area available for rehabilitation (ha) .	NIL	NIL	Area not matured for backfilling/ R&R
6d	No. of saplings planted during the year	Sapling propped-100 nos.	Sapling propped-100 nos.	For green belt dev.
6f	Any other method of rehabilitation	NIL	NIL	Minerals not exhausted from the pit; therefore not matured for backfilling.
6g	Cost incurred on watch and care during the year	NIL	NIL	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	NIL	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Nil	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Complied	Complied	Monitering is being carried out.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The mineral is not exhausted from the pit; therefore no PMCP compliance has initiated towards the backfilling/R&R in the pit. However, progression in plantation towards the green belt development on safety barriers were observed.
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Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	As per the buyers requirement in grade wise	As per the buyers requirement in grade wise	With sorting and sizing by crusher
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Limestone CaO-47 % Dolomite- CaO - 29%, MgO- 19% min.	Limestone CaO-47 % Dolomite- CaO - 29%, MgO- 19% min.	
7d	Any beneficiation process at mines	Dry screening & Crusing	Dry screening & Crusing	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Dry screening & Crusing of minerals with the help of small capacity installed plant.	

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	

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)	NIL	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100sapling for 2018-19	100sapling for 2018-19	
8g	Survival rate	70%	70%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Complied	Deployed water tanker
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		satisfactory	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = Feb 2020 AR Submitted up to = FY 2018-19	MR Submitted up to = Feb 2020 AR Submitted up to = FY 2018-19	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Furnished	Observed that the Statutory appointment are not being made under this rule	Violation issued.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	3.877 Ha.	3.877 Ha.	Area not matured for backfilling/R&R
9d	Scrutiny of Annual return on afforestation	100 nos.	100 nos.	Green belt dev.
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 Nil BF grade 7389.325 te Dolomite- 1425.214 te	ROM Nil BF grade 7389.325 te Dolomite- 1425.214 te	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine BF Grade price:- 506.00 Rs/te Dolomite- 399.27 Rs/te Cost of production:- 311.00 Rs/Te	Ex mine BF Grade price:- 506.00 Rs/te Dolomite-399.27 Rs/te Cost of production:- 311.00 Rs/Te	Sample invoice checked and found in order.
9k	Scrutiny of Annual return on mining machineries	Furnished	Wheel loader 01 Air compressor 01	

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)	23-MAR-20			
MCDR17	Rule 55(1)(3)	23-MAR-20			

Date :

(SURESH PRASAD)

Indian Bureau of Mines