

**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 : **K02**) **KALMATA M.K.**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Prasannakumar K.N, Geologist.
Official with
Designation
- (iv) Date of Inspection : 23-AUG-18
- (v) Prev.inspection date : 10-JAN-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@]
- 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Four core holes were proposed in the year 2016-17.	Lessee has drilled 10 core holes in the year 2017-18.	
1b	Exploration over lease area for geological axis 1 or 2	Entire area was proposed to explore under G-1 level in the year 2016-17.	Entire area is explored under G-1 level.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Exploration was carried out by the lessee under the supervision of Geologist by hiring drilling machine. Total expenditure incurred on exploration is about 4.0lakhs.	
1d	Balance area to be explored to bring Geological axis in 1 or 2		Entire area is explored under G-1 level.	
1e	Balance reserve as on 01/04/20		Limestone Reserves- 1767652 tons Remaining resources- 2995679 tons	
1f	General remarks of inspecting officers on geology, exploration etc		Lessee has drilled 10 coreholes in the year 2017-18 and entire area is explored under G-1 level.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In the year 2017-18 there was a proposal to work between co-ordinates N-50 to N-150 and E-200 to 270 upto 580 RL for limestone.	Working has been not carried out as per the proposal.	Violation and showcause was issued by JMG for the same in earlier inspection. so no fresh violation was pointed out.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches were proposed in ore ore only.	Benches were made in ore only.	
2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.03	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	4444 in lime stone.	300	The production was less than the proposal due to market conditions so OB removed was also less than the proposal.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development is not made as per the proposal due to less production. OB is found as intercalated caly only so no separate OB benches were proposed and made.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	80000 tons limestone in the year 2017-18.	14000 tons limestone was produced in the year 2017-18.	lessee production was due to market conditions.
3c	Recovery of sailable/usable mineral from ROM production	90%	95%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	Nil	Nil	

3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical	Mechanical	
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	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes, 02 excavators were proposed.	yes, 01 excavator was used.	Production was less than the proposal so only one excavator was used.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	03 mtr	Benches were irregular in size and not as per the proposal.	Violation and showcause was issued for the same by JMG in the earlier inspection and now lessee is started rectifying the benches, so no fresh violation was issued.
3m	Total area covered under excavation/pits		2.50ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0.03	
3o	Total area put in use under different heads at the end of year		Area under mining-2.5ha, waste dump-0.12ha, Infrastructure-0.494ha	
3p	Production of ROM mineral during the last five year period as applicable	Limestone production. 2013-14 to 2017-18 80000 tons/ annum	2017-18 14000 tons. 2016-17 25000 tons 2015-16 41000 tons 2014-15 12000 tons 2013-14 26800 tons	

3q General remarks of inspecting officers on method of mining etc.

The benches were not made as per the proposal and violation was pointed out for the same by JMG in the earlier inspection, so no fresh violation was issued. Lessee has started rectifying the benches.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Only OB dump was proposed.	OB was utilized to making ramp for the crusher near BP-3.	
4b	Location of topsoil, OB and mineral reject dumps	OB was proposed to dump in the western part of the lease area.	Waste was utilized for making ramp for the crusher.	
4c	Number of dumps within lease area and outside of lease area	One	OB was utilized for making ramp.	One old dump (old ramp) is present in the northern side of the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Waste was utilized for making ramp for the crusher.	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	One	One	
4h	Whether Retaining wall or garland drain all along dumps are there.	yes	No	Dump is not formed as per the proposal and waste is utilized for making ramp.

4i	Length of Retaining wall or garland drain all along dumps	395mtr	Nil	Dump was not formed as per the proposal so no retaining wall was made. However violation was issued by the JMG for the same in the earlier inspection. So no fresh violation was issued for the same.
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management		Entire waste generated was utilized for making ramp for the crusher and no external dump was made in the year 2017-18.	

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.	The mine is not worked upto proved depth and no Proposal was given for backfilling.	No backfilling was proposed.	
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.		The mine was not worked upto the proved depth and no backfilling was proposed.	

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).	before 1st july of every year.	Report on PMCP was submitted for the year 2017-18.	Plantation details given in the report was incorrect and violation is pointed out for the same.
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.015	0.01ha	
6d	No. of saplings planted during the year	50	50	
6e	Cumulative no .of plants		200	
6f	Any other method of rehabilitation	Nil	Nil	
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 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)		Lessee is regularly monitoring air, water and noise and all the parameters are within permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Lessee is regularly monitoring air, water and noise. Lessee has submitted yearly report on PMCP for the year 2017-18 but data given on plantation was incorrect, so violation is pointed out for the same.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		Lessee is sorting ROM through crushing and screening.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical.	Mechanical.	

7c	Different grade of mineral sorted out at mines.		BF grade and Cement grade.
7d	Any beneficiation process at mines .	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Lessee is sorting ore mechanically through crushing and screening. Lessee is blending lowgrade ore with highgrade ore as per the requirement of the buyor.

Environment:

Sl.No.	Item	Propasals	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)	yes	waste generated during 2017-18 was utilized for making ramp to crushing plant.	
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)	200 plantation was made
8g	Survival rate	65 to 70%
8h	Water sprinkling on roads to control airborne dust	lessee is using tractor mounted water tank for dust control.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation was made in and around the lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Lessee is regularly submitting monthly and annual returns.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details of mining engineer and geologist was shown as nil.	Lessee has appointed Geologist on	JMG has issued violation and showcause notices for appointment of Mining engineer and geologist in the recent inspections. Lessee has appointed geologist on...
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining -3.2ha, waste dump-0.492, infrastructure -0.494.	Area under mining-2.5ha, waste dump-0.12ha, Infrastructure-0.494ha	
9d	Scrutiny of Annual return on afforestation	50	35 to 40	
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	Limestone 4381.3 tons.	stock was approximately 2000 on the day of inspection.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Exmine price of limestone was shown as Rs-519/ton, cost of production Rs-275/tons and sale value shown from Rs-393 to rs.630/ton.	few invoice were checked and found matching.
9h	Scrutiny of Annual return on fixed assets	Rs-2700000	
9k	Scrutiny of Annual return on mining machineries	Air compressor.	Less is using one excavtor for mining.

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

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17 Rule 48	04-SEP-18				
MCDR17 Rule 26(2)	04-SEP-18				

Date :

(KALMATA M.K.)

Indian Bureau of Mines