

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-103/GOA

Mine code : 38KAR26085

- (i) Name of the Inspecting : **SP01**) **SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : **SHRI. SURESH B.KATTI, LESSEE'S SON & MINIES MANAGER**
Official with
Designation
- (iv) Date of Inspection : 07-DEC-20
- (v) Prev.inspection date : 23-SEP-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HEBBAL MINE (ML NO. 2656)**
- (b) **Registration NO.** : **IBM/6733/2011**
- (c) **Category** : **A Other Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **BAGALKOT**
- Village : **HEBBAL**
- Taluka : **MUDHOL**
- Post office :
- Pin Code :
- FAX No. : **08350-240545**
- E-mail : **sandeepmineralslkp@gmail.co**
- Phone : **08350-240545**
- (f) **Police Station** : **Lokapur**
- (g) **First opening date** : **25-APR-11**
- (h) **Weekly day of rest** : **TUE**
2. **Address for** : **BHIMAPPA DUNDAPPA KATTI,**
correspondance **KADARAKOPPA ROAD, LOKAPUR**
MUDHOL-587122
3. (a) **Lease Number** : **KAR1666**
- (b) **Lease area** : **4.85**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **04-JAN-31**
4. **Mineral worked** : **DOLOMITE** **Associated**
LIMESTONE **Main**

5. Name and Address of the

Lessee : B. D. KATTI
 P.O. LOKAPUR TALUKA-MUDHOL,
 BAGALKOT KARNATAKA
 Phone:
 FAX :

Owner : BHIMAPPA DUNDAPPA KATTI
 KADARAKOPPA ROAD, LOKAPUR
 MUDHOL BAGALKOT KARNATAKA
 Phone: 08350-240545
 FAX : 08350-240545

Mining Engineer

Name : CHANNAPPA MALI, Full Time
 Qualification : DIPLOMA MINING
 Appointment/ : 15-JUL-14
 Termination date

Manager

Name : Shri Shiv kumar Basutkar
 Qualification : Mine mate & permit manager holder
 Appointment/ : 01-DEC-11
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	14-JUN-10
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	15-OCT-13
	:	Mining Scheme rule 12 MCDR1988	08-AUG-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	03 (2017-18)	3 core boreholes a total meterage of 90m	
1b	Exploration over lease area for geological axis 1 or 2	G1 Scale	G1 Scale	Most of the area is explored under G-1 level of exploration
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	M/s. Geotech - Exploration, Rs.1,60,000/-	As per information furnished by mine management.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20		0.442 million tonnes of limestone under 111 category 0.401 million tonnes under 221 category	As per AR 2019-20.
1f	General remarks of inspecting officers on geology, exploration etc		Most part of the area is explored under G-1 level of exploration.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E-53835-534866 N-1789836- 1789924	Yes	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	Waste is generally in the form of intercalated waste.
2c	Stripping ratio or ore to OB ratio	1:0.10	1:0.05	
2d	Quantity of topsoil generation in m3	Nil	Nil	

2e	Quantity of overburden generation in m3	4445	700	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Waste is generally in the form of intercalated waste.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	65000 ton of limestone and 35000 ton of dolomite	31000 ton of limestone	
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.	Nil	Nil	+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	Manually	Size wise segregation in manually.	
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	Drilling by jackhammer and blasting by using slurry explosive	Yes	
3k	Provision of mining machineries in mineral benches	Volvo 220 Excavator	Lessee is using Hitachi PC-71 for both mining and loading.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3-4 mtr bench height is proposed	Observed slightly greater height in some places.	Advice to complete the rectification and maintain as per the proposal.
3m	Total area covered under excavation/pits	2.80 Ha.	1.50Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.10	1:0.05	
3o	Total area put in use under different heads at the end of year	Mining; 2.80 Ha., 0.152 Ha. waste, 0.092Ha. mineral stock, roads 0.55Ha.	Mining; 1.48 Ha., Infrastructure-0.01 Ha., mineral stock-0.30 Ha., roads-0.05Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2015-16-65000 tons, 2016-17-65000 tons, 2017-18-65000 tons, 2018-19-65000 tons, 2019-20-65000 tons,	2015-16-64765 tons, 2016-17- 64800 tons 2017-18-65000 tons, 2018-19-62000 tons, 2019-20-31000 tons	Mining with deployment of small capacity backhoe and tipper combination in opencast mining with drilling and blasting.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes. And no proposal given for topsoil	Waste was utilized for maintenance of road and some quantity utilized for making bund in boundary line.	

4b	Location of topsoil, OB and mineral reject dumps	No proposal was given for storage of topsoil and mineral reject and it was propose to use major part of the OB for road maintenance and some quantity to be dumped In the North-eastern part of the lease area near BP-B.	Waste was utilized for maintenance of road and some quantity utilized for making bund in boundary line.	
4c	Number of dumps within lease area and outside of lease area	One within the lease area	No waste dump formed. The waste generated was utilized for making roads and for making bunds in the lease boundary.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	No dump was formed	
4e	Number of active and alive dumps.	One	NIL	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	NIL	NIL	No waste dump formed.
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NIL	No waste dump formed.
4j	Number of settling ponds	NIL	NIL	No waste dump formed.
4k	Specific comments of inspecting officer on waste dump management		No waste dump formed. The waste generated has utilized for making roads and for making safety barriers in the lease boundary.	

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal	NIL	Working has not been reached to a proved depth.
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	Working has not been reached to a proved depth.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The mining is not reached to a proved depth and hence no proposals were made for reclamation/ rehabilitation are envisaged.	

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).	Yes	Submitted	
6b	Area available for rehabilitation (ha) .	NIL	NIL	The mining is not reached to a proved depth and hence no proposals were made for reclamation/ rehabilitation are envisaged.
6c	afforestation done (ha).	For green belt develoement only	Yes	
6d	No. of saplings planted during the year	50 nos.	50nos.	For the year 2019-20.

6f	Any other method of rehabilitation	NIL	NIL	The mining is not reached to a proved depth and hence no proposals were made for reclamation/ rehabilitation are envisaged.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	NIL	The mining is not reached to a proved depth and hence no proposals were made for reclamation/ rehabilitation are envisaged.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	The mining is not reached to a proved depth and hence no proposals were made for reclamation/ rehabilitation are envisaged.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	3 buffer zone One core zone	3 buffer zone One core zone	found within permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		The mining is not reached to a proved depth and hence no proposals were made for reclamation/ rehabilitation are envisaged.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM with manual sorting	ROM with manual sorting	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual sorting	manual sorting	
7c	Different grade of mineral sorted out at mines.	Cement Grade	Cement Grade	

7d	Any beneficiation process at mines	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		No any beneficiation. Sizing is being done manually.

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	No Proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Major part of the waste was proposed to utilize for maintenance of Road and remaining was propose to stack in the nort eastern part of the lease area	The waste generated was utilized for making roads and putting bund in the lease boundary	
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)	50 plants in the lease area	50 plants in the lease area	Year 2019-20 and with cumulative 0.50 Ha. of 7.5m S/Z 200 numbers
8g	Survival rate	65-70%	65-70%	
8h	Water sprinkling on roads to control airborne dust	Water tanker	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around mines area observed as 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 = October 2020 AR Submitted up to = 2019-20	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Suraj S.Mense - Geologist	Not observed as per rule.	Violation issued
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining-1.50ha, roads & buildings- 0.073 Ha., and others purpose-3.287 Ha.	The area mentioned under different headings are almost matching.	
9d	Scrutiny of Annual return on afforestation	50 plants	Plantation was made as per the proposal	
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 Cement Grade- 7416 tonnes	ROM- Nil Cement Grade-7416 tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine Price- Rs.294.63/ton, Production cost-253.30 Rs/T	Sample invoice checked	Found in order.
9h	Scrutiny of Annual return on fixed assets	Furnished	Rs 3620000 lakh	
9k	Scrutiny of Annual return on mining machineries		Backhoe 01 Tipper 03	

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(3)	01-JAN-21			
MCDR17	Rule 55(1)(3)	01-JAN-21			

Date :

(SURESH PRASAD)

Indian Bureau of Mines