

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

**MCDR inspection REPORT**

**Goa regional office**

**Mine file No :** KNT/BJP/LST-30/GOA

**Mine code :** 38KAR26019

- (i) Name of the Inspecting : P01 ) PREM PRAKASH  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : SHRI. G.HARENDRA, GEOLOGIST  
Official with  
Designation
- (iv) Date of Inspection : 16-OCT-20
- (v) Prev.inspection date : 10-MAR-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : VERCHAGAL (ML 2308 )
- (b) **Registration NO.** : IBM/5485/2011
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BAGALKOT
- Village : VERCHAGAL
- Taluka : MUDHOL
- Post office : LOKAPUR
- Pin Code : 587122
- FAX No. :
- E-mail :
- Phone : 08350-240640
- (f) **Police Station** :
- (g) **First opening date** : 04-JUN-01
- (h) **Weekly day of rest** : THU
2. **Address for correspondance** : Varchagal Limestone & Dolomite Mine of S.S. Sarw  
At- Varchagal Tq- Mudhol  
Dist-Bagalkot
3. (a) **Lease Number** : KAR1315
- (b) **Lease area** : 4.86
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 01-JUN-21
4. **Mineral worked** : LIMESTONE Associated  
DOLOMITE Main

## 5. Name and Address of the

Lessee : S.S. SARWAD (M/s SHRINIWAS MINERALS)  
 K.H.B. Colony Mantur Road  
 Mudhol BAGALKOT KARNATAKA  
 Phone:08350-281415  
 FAX :

Owner : S.S. SARWAD (M/s SHRINIWAS MINERALS)  
 K.H.B. Colony Mantur Road  
 Mudhol BAGALKOT KARNATAKA  
 Phone: 08350-281415  
 FAX :

## Geologist

Name : P.Abhichandra,Full Time  
 Qualification :  
 Appointment/ : 01-MAY-15 31-DEC-15  
 Termination date

## Geologist

Name : MR.Suresh Katti,Part Time  
 Qualification : M.sc Geology  
 Appointment/ : 01-DEC-14 30-APR-15  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	22-DEC-00
Plan/Scheme of Mining		Modif.of approved Mining Plan	10-APR-03
		Mining Scheme rule 12 MCDR1988	23-OCT-06
		Mining Scheme rule 12 MCDR1988	15-FEB-12
		Mining Scheme rule 12 MCDR1988	05-AUG-16

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1b	Exploration over lease area for geological axis 1 or 2	Geological Axis 1	Geological Axis 1	4.86 Ha. In G1 scale
1c	Exploration Agencies and Expenditure in lakh rupees during the year		M/s. Geotech - Exploration, 51, Panchdeep Nagar, Wardha Road, Nagapur - 440025	
1d	Balance area to be explored to bring Geological axis in 1 or 2		The entire Lease area is covered under Geological axis 1 or 2.	
1e	Balance reserve as on 01/04/20		Limestone : 306480 tonnes-111 & Dolomite : 260590 tonnes-122	Reserves position given as per Annual Returns submitted for FY 2019-20. Further, Reserve has been updated in recently approved Review & updation of mining plan, dtd. 16.12.2020
1f	General remarks of inspecting officers on geology, exploration etc		The entire Lease area is covered under Geological axis 1 or 2.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N-1783853 to 1783945/ E-538016 to 538036	Development being carried out in the same area as proposed	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	yes	
2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.1	Te : te
2d	Quantity of topsoil generation in m3	Nil	Nil	

2e	Quantity of overburden generation in m3	8888 te	3600 te	as per Annual Returns submitted for FY 2019-20
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development of pit being carried out as proposed in Mining Plan/SOM.	

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit no.1 dolomite & Pit no.2 limestone	Pit no.1 dolomite & Pit no.2 limestone	
3b	Quantity of ROM mineral production proposed	Limestone=30000 te Dolomite=50000 te proposal in FY 2019-20	Limestone=29700 te Dolomite=7350 te Achieved in FY 2019-20	as per Annual Returns submitted for FY 2019-20
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	Manual	Manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	
3j	Provision of drilling and blasting in mineral benches	Jack Hammer drilling & blasting	Jack Hammer drilling & blasting	
3k	Provision of mining machineris in mineral benches	Jack hammer-1 Tractor compressor-1	Jack hammer-1 Tractor compressor-1	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Pit working/excavation approved to be carried out by formation of systematic regular benches of 3m height and 3m to 5m width.	pit benches were not maintained in regular & systematic manner, and height of pit benches are more than 3m at places.	Violation issued in this respect
3m	Total area covered under excavation/pits	2.94 Ha. For Five Years plan period	about 2.35 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0.1	te : te
3o	Total area put in use under different heads at the end of year		Mines = 2.35 Ha. Road = 0.10 Ha. Rehabilitated = 0.158 Ha.,	as per Annual Returns submitted for FY 2019-20
3p	Production of ROM mineral during the last five year period as applicable	2016-17 to 2019-20 Each year: Limestone=3000 0 te Dolomite=50000 te	2016-17 : Nil, 2017-18 : 150 limestone + 100 dolomite, 2018-19 : 29,820 limestone + 30006 dolomite, 2019-20 : 29700 limestone + 7350 dolomite. (in te)	ROM (te) production figure is mentioned as per last approved Review of Mining Plan (RMP) and Annual Returns submitted for 2019-20
3q	General remarks of inspecting officers on method of mining etc.		Open Cast mining being carried out with Jack Hammer drilling & blasting.	

---

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping for OB has been Proposed	Separate dumping for OB has been done	

4b	Location of topsoil, OB and mineral reject dumps	OB/waste has proposed to use for construction of bund all along the lease boundary.	Generated waste has been used for formation of bund at eastern side of the lease area	
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	Generated waste used for formation of bund at eastern side of the lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	
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.	NA	NA	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management		Generated waste has been used for formation of bund at eastern side of the lease area as safety barrier of nalla.	

#### Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No back filling proposal	Nil	No any part of the Lease Area has got exhausted/ matured for backfilling.

5b	Area under backfilling of mined out area	No back filling proposal of mined out area	Nil	About 0.158 hect. Has been reclaimed in eastern side of the lease area for making 50m safety barrier for nalla
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	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 area, hence backfilling/ reclamation of mined out area has not 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).	To be submitted	submitted	
6b	Area available for rehabilitation (ha) .	0.09 Ha.	1.30 Ha.	In safety zone
6c	afforestation done (ha).	0.09 Ha	1.30 Ha.	In safety zone
6d	No. of saplings planted during the year	150 saplings	500 saplings	In safety zone and in gap area of earlier plantation
6e	Cumulative no .of plants		about 1500 saplings	In safety zone area
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Rs. 7500/-	Rs.15000/-	

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	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	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)	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.		Eastern side of the lease area has been Reclaimed & rehabilitated by plantation for making 50m safety barrier for nalla	

---

Mineral Conservation:

---

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

---



7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade wise sorting	grade wise sorting
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual
7c	Different grade of mineral sorted out at mines.	yes	yes
7d	Any beneficiation process at mines	Manual sorting & sizing	Manual sorting & sizing
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Mineral being despatched after Manual sorting and sizing of ROM ore as per requirement

---

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	yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Generated waste has been used for formation of bund at eastern side of the lease area for plantation

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)	150 saplings in 2019-20	Number of trees planted during the year 2019-20 : Within lease area -500 nos. and Outside lease Area-120 nos.
8g	Survival rate		75%
8h	Water sprinkling on roads to control airborne dust	Water tanker to be used for Sprinkling	Being used
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around mines area is good

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	2017-18- 5 no.s BHs, 2018-19- 5 no.s BHs.	7 core Boreholes of 210m drilled in Fy 2019-20	Further, Exploration proposal has been ratified & updated in recently approved Review & updation of mining plan, dtd. 16.12.2020
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - BASAVARAJ KALIGIMATH, Geologist - G HARENDRA	Manager -BASAVARAJ KALIGIMATH, Geologist - G HARENDRA	No mining Engineer appointed. Violation issued in this regard.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mines = 2.35 Ha. Road = 0.10 Ha. Rehabilitated = 0.158 Ha.,	Mines = 2.35 Ha. Road = 0.10 Ha. Rehabilitated = 0.158 Ha.,	

9d	Scrutiny of Annual return on afforestation	Within lease area -500 nos. and Outside lease Area-120 nos.	Within lease area -500 nos. and Outside lease Area-120 nos.	
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, graded ore stock of Limestone: 12543 te, Dolomite: 6208 te	ROM stock =Nil, graded ore stock of Limestone: 12543 te, Dolomite: 6208 te	As per submitted Annual Return of the year 2019-20
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price -Limestone: 269 Rs./te; Dolomite: 325 Rs./te	Ex. Mine price - Limestone: 269 Rs./te; Dolomite: 325 Rs./te	As per submitted Annual Return of the year 2019-20
9k	Scrutiny of Annual return on mining machineries	Jack-hammer & air compressor	Jack-hammer & air compressor, Manual Mining	MR Submitted up to = September 2020 AR Submitted up to = Fy 2019-20; Violation issued for deficiencies observed in Returns.

---

**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 45(7)(a)	13-NOV-20				
MCDR17 Rule 47(a)	13-NOV-20				
MCDR17 Rule 48	13-NOV-20				
MCDR17 Rule 55(1)(3)	13-NOV-20				

**Date :**

**(PREM PRAKASH)**

Indian Bureau of Mines