

**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 : **R\$01**) **R.S.SAUDAGAR**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Gopal Pujari, Mine Owners rep.,G.Harendra,Geolog
Official with
Designation
- (iv) Date of Inspection : 29-Dec-21
- (v) Prev.inspection date : 16-Oct-20

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 : Varchagal Limestone & Dolomite Mine of S.S. Sarw
correspondance 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
	:	MP review under 17(1) MCR 2016	16-Dec-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposal in 2020-21	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1	G1: 4.86 Ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil during 2020-21	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	
1e	Balance reserve as on 01/04/20		Total Reserve: 0.594 Million Tonnes of Limestone and 0.429 Million Tonnes of Dolomite. (UNFC Cat 111) CaO 34%	Reserve position as per Annual Return submitted for FY 2020-21.
1f	General remarks of inspecting officers on geology, exploration etc			Entire mineralized area was explored by the lessee under G1 level. by drilling with 7 nos. of core boreholes drilled in 2019-20; total meterage drilled was 210 m.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1783853 to N1783963 ; E537939 to E538120	Development carried out in the same area as proposed.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and Ore proposed	Separate benches in OB and Ore maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.11	

2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	3555 Cubic Metre	1000 Cubic Metre	As per A.R. submitted for FY 2020-21

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 : 30,000Tonnes & Dolomite: 50,000 Tonnes	Limestone : 24860 Tonnes & Dolomite: 8100 Tonnes	As per Annual Return submitted for FY 2020-21.
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not Applicable.	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	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.	No proposal	Nil	

3j	Provision of drilling and blasting in mineral benches	Proposed to drill by jack hammer and blasting using slurry explosives	No change	
3k	Provision of mining machineries in mineral benches	Tractor Compressor: 01nos. Water Tanker:0 1 no. Jack Hammer: 02 No	Tractor Compressor: 01nos. Water Tanker:0 1 no. Jack Hammer: 01 No	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m bench height proposed.	Height of benches was more than 3m .Proposal for rectification of old benches has been approved in RMP for the plan period 2021-22 to 2025-26 and category of mine is changed to A Category.	
3m	Total area covered under excavation/pits	2.94 Ha at the end of FY 2020-21	2.6 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0.11	
3o	Total area put in use under different heads at the end of year		Area under mining: 2.4 Ha Reclaimed /Rehabilitated :0.158 Roads : 0. 1Ha Safety Zone /bunds: 1.062	As per Annual Return submitted for FY 2020-21
3p	Production of ROM mineral during the last five year period as applicable	2016-17 to 2020-21 Each Year : Limestone= 30000,T & Dolomite: 50000 T	2016-17: Nil 2017-18: 150T L/s , 100T D/s 2018-19: 29820T L/s , 30006T D/s 2019-20: 29700T L/s, 7350 D/s 2020-21: 24860T L/s , 8100 T D/s	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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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 been proposed to use for construction of bund all along the lease boundary	Generated waste has been utilised 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	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL	
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 utilised for formation of bund at eastern side of the lease area.

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 as the mine pit was not matured for backfilling.	
5b	Area under backfilling of mined out area	No proposal	Nil	
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.			Mine pit was not matured for backfilling since mineral persists at the bottom of mine workings.

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 on or before 1st July every year.	Submitted for F.Y. 2020-21 before 1st July, 2021.	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.09 Ha	1.30 Ha	In safety zone
6d	No. of saplings planted during the year	150 Saplings	450 Saplings	
6e	Cumulative no .of plants		Aout 1500 saplings	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Nil	No change	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Not applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Bi - Annually	Environmental monitoring is carried out through private agency.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise sizing and sorting.	Gradewise sizing and sorting.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sizing and sorting.	Manual sizing and sorting.	
7c	Different grade of mineral sorted out at mines.	Yes	Yes	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Lessee is using all the ore by blending with high grade ore as per buyers requirement.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal during 2020-	Nil	
8b	Concurrent use or storage of topsoil	Proposed for spreading on bund along safety barrier for afforestation.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	No change.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Mine pit is not matured for backfilling.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed.	Apprx .1500 nos. saplings were planted within ML so far.	
8g	Survival rate		60%	
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water tanker arrangement for water sprinkling on mine roads has been made.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around the mining area is good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to November 2021 & A.R. Submitted up to 2020-2021		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Basavaraj Kalgimath Geologist: G.Harendra	Mining Engineer and Geologist were found appointed during the time of inspection.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining: 2.4 Ha. Road: 0.1 Ha. Others (Rehabilltated) : 1.2 Ha.	As per Annual Return submitted for FY 2020-21.	

9d	Scrutiny of Annual return on afforestation	450 nos.	450 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 closing stock: Nil. Graded ore closing Stock of BF grade Limestone: 11453 tonnes: Dolomite 2229 tonnes.	Actual was also same at that time as per mine dispatch register.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex- Mine Price for B.F grade Limestone reported as: Rs.285/- & for dolomite 451/tonne. Production Cost: Rs. 346/tonne	Some of the invoices were checked during inspection and sale value given was found correct.
9h	Scrutiny of Annual return on fixed assets	Fixed assets is given	Fixed assets is filled properly
9k	Scrutiny of Annual return on mining machineries	Air Compressor ,Jack hammer	No Change.

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

Date :**(R.S.SAUDAGAR)**

Indian Bureau of Mines