

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

**Review and updation of Mining Plan REPORT**

**Goa regional office**

**Mine file No :** KNT/BJP/LST-100/GOA

**Mine code :** 38KAR26080

- (i) Name of the Inspecting : **K07** ) **KRISHNENDU CHATTERJEE**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/SHRI. V.R.PATIL, REPRESENTATIVE AND SHRIDHAR M.BHAT  
Official with  
Designation
- (iv) Date of Inspection : 02-MAR-20
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **MUDDAPUR LST. & DOL. MINE**
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BAGALKOT
- Village : MUDDAPUR
- Taluka : MUDHOL
- Post office :
- Pin Code :
- FAX No. :
- E-mail : sundara\_minerals@yahoo.com
- Phone : 08350280214
- (f) **Police Station** : LOKAPUR
- (g) **First opening date** : 23-AUG-10
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : VILLAGE: MUDDAPUR, TQ: MUDHOL  
DIST: BAGALKOT  
KARNATAKA
3. (a) **Lease Number** : KAR1659
- (b) **Lease area** : 4.85
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 30-JUL-30
4. **Mineral worked** : LIMESTONE Main

## 5. Name and Address of the

Lessee : VENKATESH S. PATIL  
 TALUKA-MUDHOL, DISTRICT-  
 BAGALKOT, KARNATAKA-587 313  
 BAGALKOT KARNATAKA  
 Phone:+91 9945500501  
 FAX :

Owner : SHRI VENKATESH S PATIL  
 M/S SUNDAR MINERALS  
 INDUSTRIALS ANAND  
 NAGAR,MUDHOL DIST: BAGALKOT  
 BAGALKOT KARNATAKA  
 Phone:  
 FAX :

## Manager

Name : SHRI BASWARAJ  
 Qualification : MINE MATE & PERMIT MANAGER CERTIFICATE  
 Appointment/ : 01-JUN-11  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	08-MAY-09
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	06-MAY-14
	:	Mining Scheme rule 12 MCDR1988	20-MAR-15

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil during 2018-19.	04 nos. of core boreholes drilled by the lessee during Aug. & Sep. 2019.
1b	Exploration over lease area for geological axis 1 or 2	G1 stage proposed	G1 stage explored.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal in 2018-19.	Rs. 3,58,000/- against drilled 4 nos. of core boreholes in 2019-20.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 proposed	G1 acheived.	
1e	Balance reserve as on 01/04/20		2.6 million tonnes	As on 01.04.2019
1f	General remarks of inspecting officers on geology, exploration etc		Entire mineralized area was explored by the lessee under G1 level by drilling with 8 nos. of DTH holes and 4 nos. of core boreholes.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1793950 to N 1794500 E 534850 to E 535020 in Limestone pit	No change in development location.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed	Found to be maintained	
2c	Stripping ratio or ore to OB ratio	1: 0.16	1:0.05	Considered both limestone production of 4,500 tonnes and dolomite production of 10,350 tonnes during 2018-19.

2d	Quantity of topsoil generation in m3	557 m3	200 m3	
2e	Quantity of overburden generation in m3	4860 m3	400 m3	OB waste is mainly consists of intercalated waste; BD 2.0 t/m3.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Stripping ratio during F.Y. 2018-19 has been proposed to be maintained at 1: 0.16 but actually it was maintained at 1:0.05 because of less waste handling in 2018-19. Violation of Rule 11(1) issued to the lessee dated 23.03.2020.	

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two nos. of pits proposed. One pit in Limestone and one pit in Dolomite.	One pit in Limestone located at northern side and one pit in Dolomite located at southern side of the ML area.	Dimension of Limestone pit: 110m x 55m x 12m. Dimension of Dolomite pit: 210m x 70m x 12m
3b	Quantity of ROM mineral production proposed	10,000 tonnes of Limestone	4,500 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	60% proposed for Limestone	75% recovery achieved.	
3d	Quantity of mineral reject generation	No proposal	No mineral reject generation in 2018-19.	
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	Not applicable.	

3h	Manual / Mechanised method adopted for segregating from ROM	Manual mining proposed.	Manual mining	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal given	Nil	
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting proposed	Jack hammer drilling and blasting by using slurry and ANFO.	
3k	Provision of mining machineries in mineral benches	No proposal	Nil	Manual mining operation.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m bench height proposed	Average bench height of 4 to 5m.	Violation of Rule 11(1) issued.
3m	Total area covered under excavation/pits	2.70 Ha.	2.1 Ha. upto 2018-19.	
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.16	1:0.05	Only 800 tonnes of OB handled during 2018-19.
3o	Total area put in use under different heads at the end of year	Mining: 2.70 Mineral stock: 0.27 Road and Infrastructure : 0.03 Ha. Safety zone: 0.94 (in Ha.)	Mining: 2.10 Mineral stock: 0.40 Road and Infrastructure: 0.20 Ha. Safety zone: 0.94 (in Ha.)	
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 10,000 2015-16: 10,000 2016-17: 10,000 2017-18: 10,000 2018-19: 10,000 ( in tonnes)	2014-15: 5,000 2015-16: 4,800 2016-17: 5,000 2017-18: 5,000 2018-19: 4,500 ( in tonnes)	For mineral Limestone

3q General remarks of inspecting officers on method of mining etc. During the course of inspection it was found that, at places, height of the working benches were maintained at 4 to 5m. Violation of rule 11(1) issued to the lessee dated 23.03.2020

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Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate disposal of waste was proposed to construct safety bund along the ML boundary.	Generated waste was utilized to make safety bund along the ML boundary.	No mineral reject generated during 2018-19. Top soil utilized for spreading over the safety bund for plantation.
4b	Location of topsoil, OB and mineral reject dumps	OB proposed to make safety bund along the ML boundary.	No change. Top soil utilized for spreading over the safety bund for plantation.	Height of the embankment maintained by 1m.
4c	Number of dumps within lease area and outside of lease area	No proposal	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No separate waste dumping proposal	Not applicable.	
4e	Number of active and alive dumps.	No proposal	Nil	Generated waste was utilized to make safety bund along the ML boundary.
4f	Number of dead dumps.	No proposal	Nil	
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Construct safety bund along the ML boundary proposed.	Constructed as per the proposal.	
4i	Length of Retaining wall or garland drain all along dumps	280m safety bund proposed along the ML boundary.	Constructed as per the proposal.	
4j	Number of settling ponds	No proposal	Nil	

4k	Specific comments of inspecting officer on waste dump management	Generated waste was utilized to make embankment along the safety barrier and for repairing of mine haul roads.
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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.	No proposal	Nil as the mine pits were 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)	Concurrent use of top soil proposed.	Top soil used for plantation along the safety barrier zone.	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mine pits were not matured for backfilling since mineral persists at the bottom of mine workings.	

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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	Submitted for F.Y. 2018-19 on 14/10/2019.	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.14 Ha.	0.14 Ha.	

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6d	No. of saplings planted during the year	50 nos.	50 nos. within ML area.
6e	Cumulative no .of plants	Not specified.	Apprx. 600 nos. within ML area along the safety barrier.
6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	Rs. 7,000/-	Rs. 7,000/-
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 on backfilled area	No proposal	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	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)	Proposed to be carried out twice a year.	Carried out on half yearly basis by the lessee and parameters were found within permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		The mine was working manually and impact on environment is negligible. However monitoring was carried out as per schedule through approved third party.

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Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch	ROM dispatch after manual sorting and sizing.	Nil Limestone dispatch in the year 2018-19.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Proposed for all +34% CaO.	No change.	
7d	Any beneficiation process at mines	No proposal	Nil	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No deviation in respect of mineral conservation was observed during the course of inspection dated 02.03.2020.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed.	Top soil used for plantation along the safety barrier zone.	
8b	Concurrent use or storage of topsoil	Proposed for afforestation.	No change.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste not proposed	Generated waste was utilized to make safety bund along the ML boundary.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Mine pits were 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. 600 nos. saplings were planted within ML so far along the safety barrier.	
8g	Survival rate	Not specified.	50 to 60%	
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling arrangement on mine haul road made.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mines area is good and impact on environment due to mining operation is very less due to small scale manual mining operation.
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## 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 Feb. 2020 A.R. Submitted up to 2018-2019	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil information furnished for mining engineer and for Geologist. Manager: Shri Basavraj K Hakagali.	Part-time Mining Engineer and part-time Geologist were not found appointed.	Violation of rule 55(1) (3) was issued.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mentioned in AR.	Mining: 2.10 Mineral stock: 0.40 Road and Infrastructure: 0.20 Safety zone: 0.94 (in Ha.).	
9d	Scrutiny of Annual return on afforestation	50 nos. within ML area	No change.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generation in 2018-19	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: Nil Graded ore closing Stocks, BF grade Limestone: 15872.33 tonnes and SMS grade Limestone: 476.91 tonnes	Actual was also same at that time.	Nil Limestone dispatch in the year 2018-19.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price: Rs. 300/ tonne for BF grade Limestone. Production cost: Rs. 284/ tonne	Ex-mine price of BF grade Limestone was found to be furnished incorrectly in the AR.	Violation of rule 45(7) was issued to the lessee.
9h	Scrutiny of Annual return on fixed assets	Rs. 500,000/-	Appear to be correct	
9k	Scrutiny of Annual return on mining machineries	01 no. of Air Compressor.	No change, Manual mining operation.	

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**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 35(2)	23-MAR-20			
MCDR17	Rule 45(7)(a)	23-MAR-20			
MCDR17	Rule 55(1)(3)	23-MAR-20			

**Date :**

**(KRISHNENDU CHATTERJEE)**

Indian Bureau of Mines