

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

**MCDR inspection REPORT**

**Goa regional office**

**Mine file No :** KNT/BJP/LST-95/GOA

**Mine code :** 38KAR26077

- (i) Name of the Inspecting : **K03** ) **G. S. KANNAN**  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri.B.A.Patil, Owners Representative  
Official with  
Designation
- (iv) Date of Inspection : 18-OCT-18
- (v) Prev.inspection date : 07-JAN-18

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **LIMESTONE MINE (M.L.NO.2)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : KARNATAKA  
District : BAGALKOT  
Village : Lokapur  
Taluka :  
Post office : Lokapur  
Pin Code : 122  
FAX No. : 08350-240922  
E-mail : hvchikkud@gmail.com  
Phone : 9820107542
- (f) Police Station : LOKAPUR
- (g) First opening date : 21-OCT-09
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE: LOKAPUR, TQ: MUDHOL  
correspondance : DIST: BAGALKOT  
KARNATAKA
3. (a) Lease Number : KAR1565  
(b) Lease area : 3.31  
(c) Period of lease : 20  
(d) Date of Expiry : 31-DEC-28
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : GANGAVVA A PATIL  
 SRINIVAS MINERALS AT & POST  
 : LOKAPUR TQ: MUDHOL  
 BAGALKOT KARNATAKA  
 Phone:  
 FAX :

Owner : GANGAVVA A PATIL  
 M/S SRINIVAS MINES &  
 MINERALS AT & P.O.  
 LOKAPUR, TQ: MUDHOL  
 BAGALKOT KARNATAKA  
 Phone:  
 FAX :

## Manager

Name : Shri N F Muttanwar  
 Qualification : Mine Mate & Permit Manager  
 Appointment/ : 01-NOV-13  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	27-NOV-06
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	08-NOV-11
	:	Mining Scheme rule 12 MCDR1988	01-AUG-14

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2 Core Borehole Proposed in 2013-2014	3 DTH has drilled on 2013-2014 9 DTH has drilled on 2014-2015 6 DDH has drilled on 2015-2016	
1b	Exploration over lease area for geological axis 1 or 2	Geological axis - 1	Geological axis - 1	6 - Core boreholes and 12 DTH boreholes were drilled in the lease area for Geological axis - 1, during scheme period
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Nil	6 DDH with 240 meters has been drilled upto 2017-2018. Total expenditure towards exploration is 2.5 Lakhs
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Nil	Exploration was carried out at 100m X 100m grid interval. Entire area has been explored and under G-1.
1e	Balance reserve as on 01/04/20	As on 01.04.2018 Proved Mineral Reserves (111) = 2252342 tons Pre-Feasibility Mineral Resources (221) = 1049611 Tons.	As on 01.04.2018 Proved Mineral Reserves (111) = 2309816 tons Pre-Feasibility Mineral Resources (221) = 1049611 Tons. Inferred Mineral Resources (333) = 448673 tons	

1f	General remarks of inspecting officers on geology, exploration etc	It is part of Kaladgi basin which belongs to Upper Cuddapag system	The deposit is litho unit of Lokapur sub group of Bagalkot group which belongs to Kaladgi Super group	Geologically the top most area is more disturbed by Murram with Limestone
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During 2017-2018, there was proposal to work below the section line L-L'	Development is at the proposed area below the section lie L-L'.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, proposed separate benches in OB & Mineral. Topsoil bench is 3m height & 4m Width Limestone Bench is 3m height	Working has been carried out as per the proposal.	
2c	Stripping ratio or ore to OB ratio	1 : 0.05	1 : 0.26	
2d	Quantity of topsoil generation in m3	No Proposal	Nil, there is no topsoil generation	
2e	Quantity of overburden generation in m3	OB waste is only Intercalated waste. During 2017-2018 it is proposed 2753 tons	13860 tons of waste has been achieved.	Due to Morrum bands, the intercalated waste has been excess than proposal.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed 2753 tons of intercalated waste from 2 benches	Achieved 13860 tons of intercalated waste from 2 benches	

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Development and production was proposed in Pit-1.	Development and production are carried out in single pit.	
3b	Quantity of ROM mineral production proposed	The total target of ROM Production was 54737 tons during 2017-2018.	65860 tons of Limestone	
3c	Recovery of sailable/usable mineral from ROM production	95%	74%	
3d	Quantity of mineral reject generation	There is no Mineral Reject generation	There is no Mineral Reject generation	
3e	Grade of mineral rejects generation and threshold value declared.	Mineral reject- No Proposal. Threshold Value for Mineral rejects is not Declared	Mineral reject- No Proposal. Threshold Value for Mineral rejects is not Declared	
3f	Quantity of sub grade mineral generation.	No Sub Grade Generation	No Sub Grade Generation	
3g	Grade of sub grade mineral generation	There is No Generation of Subgrade Mineral	There is No Generation of Subgrade Mineral	
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 Benefication Study is Proposed	Only Manual Picking of Ore from Intercalated Waste	

3j	Provision of drilling and blasting in mineral benches	Spacing - 1.00m Burden - 0.90m Depth - 1.50m It is Proposed to drill by Jack Hammer and blasting by using Slurry & ANFO	Spacing - 1.00m Burden - 0.90m Depth - 1.50m As per proposal the Drilling & Blasting are done
3k	Provision of mining machineries in mineral benches	Jack Hammer - 1 Tracker Compressor - 1 Tippers - 2 Water tanker - 1	Jack Hammer - 1 Tracker Compressor - 1 Tippers - 2 Water tanker - 1
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 3m was proposed in Mineral.	Bench Height 3 - 4 m.
3m	Total area covered under excavation/pits	2.20 hect area is proposed for Pit during 2017-2018	2.00 hect areas are under Pit only.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.05	1 : 0.26
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2018. Mines = 2.20 hect Dump = 0.120 hect Infra = 0.004 hect Road = 0.090 hect Green Belt = 0.400 hect	Land use Pattern as on 01.04.2018. Mines = 2.00 hect Infra = 0.0040 hect Road = 0.090 hect Green Belt = 0.410 hect

3p	Production of ROM mineral during the last five year period as applicable	2017-2018 = 54737 tons 2016-2017 = 54737 tons 2015-2016 = 54737 tons 2014-2015 = 54737 tons 2013-2014 = 54737 tons	2017-2018 = 65860 tons 2016-2017 = 52000 tons 2015-2016 = 52000 tons 2014-2015 = 3500 tons 2013-2014 = 26800 tons
3q	General remarks of inspecting officers on method of mining etc.	Manual Mining	Manual Mining

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed for Intercalated waste	Dumping has been done as per proposal	
4b	Location of topsoil, OB and mineral reject dumps	Western Side of the Lease area	Safety bund has been formed as per proposal.	
4c	Number of dumps within lease area and outside of lease area	Lease area = 1 Non Lease area = Nil	Lease area = 1 Non Lease area = Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	No Proposal	Nil	
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.	Formation of Bund has been proposed along the Lease boundary	Bund has formed as per proposal
4i	Length of Retaining wall or garland drain all along dumps	Terracing has been proposed	50m terracing wall has been constructed
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management	Nil	Nil

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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 for Back filling	No backfilling done	
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	No Proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No Proposal	Nil	

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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).	It should be on or before 1st July every year.	Not Submitted for the year 2017-2018	Violation has pointed out under Rule 26 (2)
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.110 hect	0.120 hect	
6d	No. of saplings planted during the year	Total 50 saplings were proposed during last year 2017-2018.	50 Saplings has been planted	480 plants has been planted (350 plants upto 2014, 130 plants from 2014-2018)
6e	Cumulative no .of plants	Total 50 saplings were proposed during last year 2017-2018.	50 Saplings has been planted	480 plants has been planted (350 plants upto 2014, 130 plants from 2014-2018)
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	0.50 Lakhs	0.75 lakhs	
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 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)	Bi-Annually Survey	Environment monitoring is carried out through own as well as private agency.

6q General remarks Nil Nil  
of inspecting  
officers on PMCP  
compliance and  
progressive  
closure  
operations etc.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	54737 tons ROM/ 52000 tons Saleable Ore	65860 tons ROM/ 52000 tons Saleable Ore	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Cao = +47% Mgo = 4.0% Sio2 = 0.5 - 5.5%	Cao = +47% Mgo = 4.0% Sio2 = 0.5 - 5.5%	
7d	Any beneficiation process at mines .	Manually sorting and sizing proposed	Manually sorting and sizing is being done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Lessee is using all the ore by blending with high grade ore. As per buyers specification	

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	There is No proposal for separately remove and utilised of topsoil	Nil, Topsoil generation is not there for 2017 - 2018.	
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One Dump for OB	Safety Bund has been formed	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	At present there is no proposal for restoring.	Nil	
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)	50 saplings per year	Lessee has planted 50 plants during 2017-2018	Cumulatively 480 plants has been planted
8g	Survival rate	80%	60%	
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed for water sprinkling on haul roads.	Daily Water tanker is spraying water on mines roads side to control airborne dust.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, bushes, neem are observed in lease area	Surrounding area beyond lease area is greenery
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = September 2018 AR Submitted up to = 2017-2018	Both Annual & Monthly returns are submitting in online system.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Full time Mining Geologist has been appointed	Only Mines mate is working as Permit Manager	It is advised to appoint mining engineer. Violation has been issued under Rule 55(1)(3)(iv)
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining = 2.570Hect Office = 0.007 Hect	Landuse Pattern is not filled properly, decimal has wrongly given	
9d	Scrutiny of Annual return on afforestation	300 Plants planted	Lessee has planted 50 saplings inside lease area and 250 outside lease area during 2017-2018	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	There is no Mineral Rejects Generation	There is no Mineral Rejects Generation	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	14491 tons has been stocked with Cao=+48% Grade.	Mine has produced 52000 Tons of Production during 2017-2018	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production Rs.185/- per tons	Nil
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	Machineries details given	As available in field

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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(4)	02-NOV-18			
MCDR17	Rule 26(2)	02-NOV-18			
MCDR17	Rule 33	02-NOV-18			
MCDR17	Rule 55(1)(3)	02-NOV-18			

**Date :**

**(G. S. KANNAN)**

Indian Bureau of Mines