

**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.H.Chikud, Lessee Representative, B.A.Patil, MM  
Official with  
Designation
- (iv) Date of Inspection : 05/06/2016
- (v) Prev.inspection date : 13/02/2014

**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 : 21/10/2009
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE: LOKAPUR, TQ: MUDHOL  
correspondance : DIST: BAGALKOT  
KARNATAKA
3. (a) Lease Number :  
(b) Lease area :  
(c) Period of lease :  
(d) Date of Expiry :
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/ : 01/11/2013  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	27/11/2006
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	08/11/2011
	:	Mining Scheme rule 12 MCDR1988	01/08/2014

## 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	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	1 Lakhs	4.50 Lakhs	
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	As on 01/04/2016 Proved Mineral Reserves = 23,56,342 Tons Pre-Feasibility Mineral Resources = 10,49,611 Tons Inferred Mineral Resources = 4,48,673 Tons	As on 01/04/2016 Proved Mineral Reserves = 2413816 Tons Pre-Feasibility Mineral Resources = 10,49,611 Tons Inferred Mineral Resources = 4,48,673 Tons	
1f	General remarks of inspecting officers on geology, exploration etc	Borehole drilled at 100m grid interval	Entire Lease is having same Geology and Mineralogy is changes from place to place. Hence borehole has to be drilled at closer interval to get quantity and quality	

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development is only Top soil, i.e. above the section line L-L' and Co-ordinates above 100-N	Development is at Existing pit only, i.e, is below the Section line L-L' and below the Co-Ordinates 100-N	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil bench is 3m height & 4m Width Limestone Bench is 3m height	Topsoil bench is 1m height & 1m Width Limestone Bench is 5-6m height	Violation has been issued for not Maintance the bench height properly
2c	Stripping ratio or ore to OB ratio	1 : 0.05	1 : 0.05	
2d	Quantity of topsoil generation in m3	2045 Tons/ Year	900 Tons has been removed on 2015-2016	
2e	Quantity of overburden generation in m3	2045 tons/ year	900 tons has been removed	Topsoil is only overburden
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil	Nil	

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Single Pit	
3b	Quantity of ROM mineral production proposed	54737 Tons	52000 Tons	
3c	Recovery of sailable/usable mineral from ROM production	95%	97%	
3d	Quantity of mineral reject generation	Nil	Nil	

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 Proposal for Subgrade Mineral Generation	There is No Generation of Subgrade Mineral
3h	Manual / Mechanised method adopted for segregating from ROM	Semi Mechanised Method is Proposed for Segrating ROM	Semi Mechanised Method is adopted for Segrating ROM and Manually Sorting and Sizing is also being done.
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 - 1m Burden - 0.90m Depth - 1.50m	Spacing - 1m Burden - 0.90m Depth - 1.50m
3k	Provision of mining machineries in mineral benches	Tippers - 2 Nos Compressors - 1 No Water tanker - 1 No Jeep - 1 No	Tippers - 2 Nos Compressors - 1 No Water tanker - 1 No Jeep - 1 No
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height - 3.0 m	Height - 5 to 6 m
3m	Total area covered under excavation/pits	1.00 Hect	0.90 Hect

3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.05	1 : 0.05
3o	Total area put in use under different heads at the end of year	Area under Mining = 1.00 Hect OB Dump = 0.06 Hect Office = 0.004 Hect Roads = 0.090 Hect Afforestation = 0.320 Hect Proposed Crusher = 0.045 Hect	Area under Mining = 0.90 Hect Office = 0.004 Hect Roads = 0.080 Hect Afforestation = 0.300 Hect
3p	Production of ROM mineral during the last five year period as applicable	2015-2016 = 54737 tons 2014-2015 = 54737 tons 2013-2014 = 54737 tons 2012-2013 = 54737 tons 2011-2012 = 54737 tons	2015-2016 = 52000 tons 2014-2015 = 3500 tons 2013-2014 = 26800 tons 2012-2013 = 8437 tons 2011-2012 = 7540 tons
3q	General remarks of inspecting officers on method of mining etc.	Nil	Nil

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#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Propoed for Intercalated Waste	No dump is present	
4b	Location of topsoil, OB and mineral reject dumps	Western Side of Lease area	No dump is present in poposed area	
4c	Number of dumps within lease area and outside of lease area	One Dump Proposed within Lease area	Nil	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Western Side of the Lease area	Nil
4e	Number of active and alive dumps.	Single Active Dump	No Dump has been formed
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	Single	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	There is proposal for Retaining Wall, Garland Drainage	No Retaining Wall & Garland Drainage has been formed
4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall = 120m Garland Drainage = 160m	Nil
4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Single Dump Proposed	No Dump has been formed

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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 Backfilling	No Backfilling done	
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	

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5d	Total area fully reclaimed and rehabilitated	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No Backfilling	No Backfilling

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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).	To be submitted before 30th July of every year	Not Submitted for the year 2014-2015 & 2015-2016	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.110 Hect/ Year	0.020 Hect done 2015-2016	
6d	No. of saplings planted during the year	50 Saplings for 50m/ Year	20 Saplings for 50m lenght	
6e	Cumulative no .of plants	450 Plants (350 Plants upto 2014, 100 Plants from 2014-2016)	400 Plants (350 Plants upto 2014, 50 Plants from 2014-2016)	
6f	Any other method of rehabilitation	No Proposal	Nil	
6g	Cost incurred on watch and care during the year	1.5 Lakhs	0.80 lakhs	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Nil	Nil	

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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	Quartely Environmental Monitoring has been done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	Nil

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	54737 Tons	52000 Tons	
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% Sio2= - 4% Mgo = 0.5-5.5%	Cao = +47% Sio2= - 4% Mgo = 0.5-5.5%	
7d	Any beneficiation process at mines .	Manually Sorting and Sizing is Proposed	Manually Sorting and Sizing is being done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Nil	

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	There is Proposal for separately remove and utilized the topsoil.	There is Little Soil Cover, separately remove and utilized.
8b	Concurrent use or storage of topsoil	Storage of topsoil	Storage of topsoil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One dump is for OB	No Dump is present
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	At preent there is no proposal for restoring.	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 Sapling/ Year	350 Sapling planted upto 2014 100 Sapling last two years
8g	Survival rate	80%	60%
8h	Water sprinkling on roads to control airborne dust	Water tanker with 3000 liters	Daily Water tanker is spraying water on mines roads side t control airborne dust.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	Nil
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Submitted within the time limits	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No Mining Engineer, Geologist	Only Mines mate is working as Permit Manager	It recommended to appoint the Mining Engineer, Geologist
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Landuse Pattern is shown as Nil	Landuse Pattern is not filled properly	
9d	Scrutiny of Annual return on afforestation	Nil	Annual Return on afforestation is not filled properly	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	There is no Mineral Rejects generation	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	3500 Tons Stock Grade Cao= +50	3500 Tons Stock Grade Cao= +50	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production is given for Entire year	Instend of per ton, the lessee has given for entire year	
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is given as Nil	Fixed Assests are not filled Properly	

9k	Scrutiny of Annual return on mining machineries	Nil	Not Filled Properly
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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 13(1)	27/06/2016				
Rule 23E(2)	27/06/2016	25/07/2016			
Rule 27(4)	27/06/2016				
Rule 42(1)(b)(ii)	27/06/2016				
Rule 63	27/06/2016	25/07/2016			

**Date :**

**(G. S. KANNAN)**

Indian Bureau of Mines