

**INDIAN BUREAU OF MINES
MINES CONTROL AND CONSERVATION OF MINERAL DIVISION**

MCDR INSPECTION REPORT

Goa regional office

Mine file No : KNT/BJP/LST-33/GOA

Mine code : 38KAR05009

- (i) Name of the Inspecting : **J003**) **JANGID G K**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sh Basavarajappa, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 10/07/2013
- (v) Prev.inspection date : 09/08/2011

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KALADGI (280 ACRES)**
- (b) Category : A Other than Fully Mech.
- (c) Type of Working : Opencast
- (d) Postal address
State : KARNATAKA
District : BAGALKOT
Village : KALDGI
Taluka : BAGALKOT
Post office : KALADGI
Pin Code : 587204
FAX No. : 08354-235117
E-mail : mmlbgkdivision@gmail.com
Phone : 080-25580373, 25580374,2558
- (e) Police Station : BAGALKOT
- (f) First opening date : 01/07/1981
2. Address for : At- Chikkashellikeri
correspondance PO-Kaladgi
Taluka and Dist-Bagalkot
3. (a) Lease Number : KAR0024
(b) Lease area : 467.83
(c) Period of lease : 20
(d) Date of Expiry : 12/03/2001
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : MYSORE MINERALS LIMITED
 NO:39, MAHATMA GANDHI ROAD
 BANGLORE URBAN KARNATAKA
 Phone:080-25583173, 25583174
 FAX :080-25583172

Owner : M/S MYSORE MINERALS LIMITED
 39, M.G. ROAD BANGLORE
 URBAN KARNATAKA
 Phone: 080-25580373,74
 FAX : 080-25583172

Agent : SHANKARALINGAIAH
 BRINDAVAN SECTOR NAVANAGAR,
 63/3 BAGALKOT KARNATAKA
 Phone: 08354-235117, 9731328141
 FAX : 08354-235117

Manager	
Name	: H.J.BASAVARAJAPPA
Qualification	: DIP. IN. MINING AND II ND CLASS MM CERT
Appointment/	: 30/01/2009
Termination date	

6. Date of approval of Mining : 24/12/2009
 Plan/Scheme of Mining

PART - II : TECHNICAL DETAILS/COMMENTS

1. Details about Average employment :

Maximum number of persons employed on any day during the year

Employment category	No.of employment	Av. yearly working days
DIRECT		
Managerial	1	302
Supervisory	14	302
Others	14	302
Ministrial	0	0
Plant	0	0
Workers	13	302

2. Community Development Plan (in and around the mines) : Proposed action and expenditure towards socio-economic development.

Action during the year	Expenditure in Rs. Lakhs for				Remarks
	previous year		current year		
	Proposed	Incurred	Proposed	Incurred	
General					
Housing	0.00	0.00	0.00		
Safety	0.00	0.75	0.00		
Water supply	0.00	0.90	0.00		
Health	0.00	0.50	0.00		
Medical facility	0.00	0.40	0.00		
Sanitation	0.00	0.50	0.00		
Sub total	0.00	3.05	0.00		
Infrastructure					
Public transport	0.00	0.00	0.10		
Communication	0.00	0.00	0.35		
Roads	0.00	0.00	0.60		
Electricity	0.00	0.00	4.80		
Sub total	0.00	0.00	3.05		
Training	0.00	0.00	0.10		
Employment	0.00	0.00	25.80		
Sports activities	0.00	0.00	0.05		
Recreation	0.00	0.00	0.30		
Environment management	0.00	0.00	1.00		
Others	0.00	0.00	1.20		
Total	0.00	0.00	37.35		

3. Status of compliance of MCDR, 1988, including therewith the rectification of the outstanding violation of rules.

The mine was last inspected on 09.08.2011 under MCDR inspection and a violation letter for rules 13(1) and 23(E)2 was issued. Rule 13(1) was for non-compliance of exploration proposal and lessee assured to comply it during 2011-12. However, exploration as proposed in SOM is not carried out till date. After the current inspection, violation for rule 13(1) was issued for compliance on 24.07.2013.

4. A note on the justification in case of suspension of mining operation under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988, if recommended.

The suspension of mining operations under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988 is not recommended right now; however if lessee failed to comply the violation of rule 13(1), action for imposing rule 13(2) will be initiated.

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
A. Exploration (Rule 13)			
a.Type of prospecting and exploration i.e. pitting, drilling	Proposal to drill twenty boreholes each of 60m depths in 2011-12 and 2012-13.	Additional exploration was not carried out during last four years.	Violation letter issued for rule 13(1).
b.Total area covered	Area proposed was 1200m X 400m covering 20 boreholes at 200m X 200m grid interval.	Additional exploration was not carried out during last four years.	Violation letter issued for rule 13(1).
B. Working (Rule 13)			
a.Number and size of each pit (LxWxH)	There were three existing pits and further planning was to advance pit-1 & 3 laterally and in depths.	The size of three pits are : Pit-1 of 300m X 220m X 25m, Pit-2 of 120m X 100m X 10m and Pit-3 of 250m X 110m X 20m.	
b.Bench size(LxWxH)length can be defined as regular/irregular	Regular benches of 6m height and 9m width were proposed.	Regular benches of 4-5m height and 5-6m width are maintained with J/H drilling and blasting.	
c.Ore to waste ratio pit wise if possible otherwise for mine	Planned Ore to waste ratio was 1:0, as almost 97% recovery is there.	Recovery percentage is more than 98% from ROM. There is no OB except thin slice of topsoil.	
d.Total area covered under excavation/pits	Area proposed under pits at the end of 2012-13 was 12.65ha.	Area covered under pits is 12.50ha, as achieved production was hardly 30% of proposal of SOM.	
C. Waste disposal (Rule 13)			
a.Location of dumps	It was proposed to dump the reject material in continuation of dump-1 for first two years and on northern corner of lease area for remaining three years.	There is no fresh reject dump within lease area. NE face of pit-1 is having more MgO and high MgO limestone was dumped towards north direction of pit-1.	
e.Yearly generation of waste quantity.	It was proposed for 6480t topsoil and 5585t reject generation during the year 2012-13.	Topsoil of 15100t & nil and reject generation was 3848t and 4293t in 2011-12 & 2012-13 was generated. Topsoil was used for agriculture purpose by private land owner.	
b.Method of dumping whether advancing/retreat	Method of dumping was advancing over virgin area.	Topsoil was used by private field owner for cultivation. Separate	

dump was made for High MgO limestone treated as sub grade mineral.

c.Total area covered : Additional area of 0.90ha was proposed for reject dump. Fresh dumping was not observed and total area under dump is 1.0ha.

d.No.and size of each waste dump with No of steps/lift/bench : Two dumps of 130m X 70m X 10m and 150m X 67m X 10m were proposed for reject material. The size of existing dumps is 70m X 50m X 8m, 40m X 40m X 9m and 140m X 10m X 3m. High MgO subgrade stack is of 30m X 15m X 5m.

D. Production

b.Year wise production of last five year. : Target of production from 2008-09 to 2012-13 was 2.5 lac t per annum. Actual production from 2008-09 to 2012-13 was 120023t, 173493t, 207770t, 204197t and 190770t respectively.

D. Reserve

a.Reserve position as per latest MP/MS and at the time of inspection. : Reserves under 111 - 24510473t. Resources under 121 & 122 were 12978597t. Balance reserves as on 01.04.2013 are 37489070t.

RESERVE POSITION AS ON 01/04/2013

LIMESTONE		
Category	Quantity in Tonnes	Grade
Proved	24510473	
Probable	12978597	
Possible		
Total	37489070	

PRODUCTION FOR THE PREVIOUS YEAR 2012 - 2013

Mineral	Production	Unit
LIMESTONE	190770	TON

6. Conservation of Mineral - both quantitative and qualitative**Beneficiation (Rule 20 and 26)**

Efforts for improving percentage of recovery of ore. : Lumps are directly loaded from faces without any loss.

Mineral Rule 15

Number of benches in ore and waste. : There is negligible topsoil cover, which is separately scraped. Four benches in Pit-1, two benches in Pit-2 and three benches in Pit-3 are maintained in mineral.

Percentage of recovery of ore pitwise w.r.t. ROM and total material : The recovery percentage is almost 100% without any reject or loss.

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : Nil

Number and size of each stack : Nil

Location of stacking. : Waste OB was not observed in both the pits. There are few small pockets of yellow coloured clayey material, which is sometimes sorted out and sometimes blended as per supply of the material.

Total area covered for stacking : Direct loading is being carried out from working faces without any stacking at surface level. Even loading itself is being carried out by purchaser machines at working faces.

Exploration data as on 31/03/ 2013

No. of Boreholes	No. of Pits	No. of Trenches
0	0	0

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2012 - 2013

Overburden/waste removed (in m3) :	0
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Utilisation of Sub Grade Mineral and Mineral Rejects

Generated	Utilised	Stacked	(In Ton.)

7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : The area is gently sloping from North to South having seasonal nalah within lease area.
- b. Aesthetic environment : The lease area is surrounded by private agriculture field and other mining lease in west direction. Lease area is having bushes and outcrops of limestone surrounding the working pits.
- c. Soil and land use pattern : Topsoil is black in colour and thickness varies from 0.2m to 0.5m.
Area used under pit - 12.65ha.
Area used under crusher plant : 1.0ha
- d. Agriculture : The lease area is having agriculture field and surrounded by private agriculture field in all direction, except western side having limestone lease.
- e. Forest(flora and fauna) : Forest land is not there inside the lease area.
- f. Vegetation : Thorny bushes & shrubs are prominent vegetation noticed within lease area. Few big banayan, neem trees are there within lease area. Overall tree density is less than 10 per ha.
- h. Public building, places and monuments (protected, historical), place of worship and places of tourist : Public building, places and monuments, place of worship and places of tourist interest are not there within lease and surrounding area.

B Water environment.

- a. Surface water : Area is gently sloping towards North to South and South to North, as there is seasonal nalah passing within lease area in W-E direction.
- b. Ground water : Water table is at a depth of 25-30m and there is no adverse impact due to mining.
- c. Quality of water : There is no adverse impact on quality of water due to shallow mining.

C. Air environment

- a. Noise : Mining operations are manual with small dia jackhammer drilling & blasting. Noise level is within permissible limit as per environment monitoring carried out.
- b. Air : Water sprinklers are there and occasionally being used on haul road to suppress the air borne dust.
- c. Climatic condition : Climate condition is sub-tropical and average rainfall in the area is 500-800mm. Minimum and maximum temprature varies from 20 degree celcius to 45 degree celcius.

D. Socio economic environment

- a. Social and demographic profile. : Nearby villages to the lease area are Govinakoppa, Chikkashellikeri, Hireshellikeri, Kalaskoppa, Yandigere, Karadigudda, Nimbudihal etc. Male to female ratio is 1000:903. Literacy rate is 64%.
- b. Recommending health and safety. : Health and safety of persons is not in danger due to dolomite mining.
- c. Human settlement : There are few agriculture fields with huts within lease area. Villagers are settled there and therefore

deephole drilling & blasting is not possible.

- d. Recreational facility. : Balgalkot, Lokapur are the nearest town/city having all the basic facilities. Otherwise satellite TV connection is available for entertainment.

7.1 Comments on the steps taken by the lessee towards maintaining environment and monitoring of environmental parameters to ensure the qualitative improvement in the environment and ecology.

<u>Water Management</u>					
Season	Station type	Station name	Parameter	Value	
				Actual	Excess

<u>Air data for excess parameters</u>					
Season	Station name	Type of area	Parameter	Value	
				Actual	Excess

<u>PLANTATION DURING THE PREVIOUS YEAR</u>						<u>2012 - 2013</u>		Area in Hect.
Within lease area			Outside lease area					
Area	Trees planted	Survival rate	Area	Trees planted	Survival rate			
.1	100	90	0	0	0			

<u>TOP SOIL MANAGEMENT</u>				
<u>Quantity as on 31/03/2013</u>				
Cumulative quantity in tonne				
Generated		Utilised		Balance
75000		75000		0

8. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.

Annual returns for the year 2012-13 scrutinised during inspection of mine and deficiencies were explained to mines manager for correction.

Land use pattern : It is filled up correctly.

Manpower and technical staff: Diploma with 2nd Class manager is not included. Salary to technical staff is not given.

Reserves: Balance reserves as on 01.04.2012 are not given.

Quantity of OB/waste generation : Limestone of 35-40% CaO is treated as reject, which is above threshold value.

Sale & despatch figures:It is filled up correctly.

Cost of operation: Royalty paid is not included.

Pit mouth value: It is filled up correctly.

PART - III : PERFORMANCE OF MINE OWNER
(In case of lease expiring within 2 years - as per guidelines)

a. Compliance of terms and conditions of lease deed.

The mining lease was renewed from 26.04.1999 for 20 years and renewal lease number is 2494. An area of 48.96ha was deleted and renewal was executed for 64.35ha.

b. Compliance of the provisions of MCDR, 88 and advise given.

The mining plan for renewal of mining lease was approved on 01.03.2001 for 70.17ha, however renewal was executed for 64.35ha only. The mining scheme was approved on 07.06.2004 for the period 2004-05 to 2008-09. Second scheme of mining was approved on 24.12.2009 for the period 2009-10 to 2013-14.

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

Indian Bureau of Mines (any issue related to CGPB, SGPB, Assistance, Consultancy, Annual Programme and studies, etc.)

None at present.

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

None at present.

The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

None at present.

Date :

(JANGID G K)

Indian Bureau of Mines