

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

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KNT/BNG/FELSPAR/3/BNG

Mine code : 22KAR01004

- (i) Name of the Inspecting : 130) PRASHANT S HEGDE
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/Shri N. Gangadhar Shetty, Mines Manager and M.N. Vi
Official with
Designation
- (iv) Date of Inspection : 09/10/2013
- (v) Prev.inspection date : 07/03/2012

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : ARUDI M.L.NO.1176/1752
- (b) Category : B Manual
- (c) Type of Working : Opencast
- (d) Postal address
- State : KARNATAKA
- District : BANGALORE
- Village : ARUDI
- Taluka : DODDABALLAPUR
- Post office : ARUDI
- Pin Code : 561204
- FAX No. : 080-25580373
- E-mail : info.mml@nic.in
- Phone : 080-25583172
- (e) Police Station : HOSALLI
- (f) First opening date : 28/02/1974
2. Address for : M/s MML # 39,M.G.ROAD,
correspondance BANGALORE,
KARNATAKA-560001.
3. (a) Lease Number : KAR0866
- (b) Lease area : 18.21
- (c) Period of lease : 20
- (d) Date of Expiry : 27/01/2013
4. Mineral worked : QUARTZ Associated
FELSPAR Main

5. Name and Address of the

Lessee : MYSORE MINERALS LTD
 NO.39, M.G.ROAD, BANGALORE,
 BANGALORE KARNATAKA
 Phone:080-25580373
 FAX :080-25580372

Owner : MYSORE MINERALS LTD
 NO.39, M.G.ROAD, BANGALORE,
 BANGALORE KARNATAKA
 Phone: 5580373,5580374
 FAX : 080-5583172

Agent : Y. THOMAS
 M/s MYSORE MINERALS LIMITED
 NO.39, M.G. ROAD BANGALORE
 KARNATAKA
 Phone: 080-25580373
 FAX : 080-25580372

6. Date of approval of Mining : 02/11/2012
 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	300
Others	1	300
Ministrial	1	300

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					
Health	0.00	0.00	0.00	0.00	
Safety	0.00	0.00	0.00	0.00	
Water supply	0.00	0.00	0.00	0.00	
Medical facility	0.00	0.00	0.00	0.00	
Housing	0.00	0.00	0.00	0.00	Mine temp. disco
Sanitation	0.00	0.00	0.00	0.00	
Sub total	0.00	0.00	0.00	0.00	
Infrastructure					
Roads	0.00	0.00	0.00	0.00	
Public transport	0.00	0.00	0.00	0.00	
Communication	0.00	0.00	0.00	0.00	
Electricity	0.00	0.00	0.00	0.00	
Sub total	0.00	0.00	0.00	0.00	
Employment	0.00	0.00	0.00	0.00	
Others	0.00	0.00	0.00	0.00	
Training	0.00	0.00	0.00	0.00	
Sports activities	0.00	0.00	0.00	0.00	
Recreation	0.00	0.00	0.00	0.00	
Environment management	0.00	0.00	0.00	0.00	
Total	0.00	0.00	0.00	0.00	

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

No violations of rules were pointed out during last MCDR inspection dated 07/03/2012. No violations MCDR 1988 are observed during current inspection, as mine was not working since 01/06/2004 due to lack of demand and operation becoming uneconomic.

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.

No such recommendation as non-working mine.

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
A. Exploration (Rule 13)			
a.Type of prospecting and exploration i.e. pitting, drilling	: 2 Trail pits with Dimension 5m X 5m X 5m	NIL	Non-working since 01/06/2004
b.Total area covered	: No such proposals	NIL	NIL
B. Working (Rule 13)			
a.Number and size of each pit (LxWxH)	: Development of 60 m x 25m area within pit No.1	NIL. Existing old pit dimensions are Pit No.1: 120 mX 35 m X6m and Pit no 2: 60m X 10m X 3m	NIL
b.Bench size(LxWxH)length can be defined as regular/irregular	: Regular benches with 1.5 m height and 3 m width	Non-working mine. Existing three number of benches with 1.5 to 2 m height and 2.5 to 3 m width.	Nil
c.Ore to waste ratio pit wise if possible otherwise for mine	: 1:6.33	No production and development.	NIL
d.Total area covered under excavation/pits	: 60m X25m i.e. 0.15 Ha	Nil during year. Total area under mining so far is 0.58 Ha	NIL
C. Waste disposal (Rule 13)			
a.Location of dumps	: Eastern side of ML on non-mineralised ground.	NIL	NIL
e.Yearly generation of waste quantity.	: 22,660 tonnes	NIL	NIL
b.Method of dumping whether advancing/retreat	: Retrest	NIL	NIL
c.Total area covered under waste dump.	: Proposed to dump in eastern side of ML.	NIL	NIL
d.No.and size of each waste dump with No of steps/lift/bench	: one dump with one step	NIL	NIL
D. Production			
b.Year wise production of last five year.	: Feldspar:--- NIL (2009-10); 3,250 (year 2010-11); 3,575 (2011-12); 3,575 (2012-13); 3738 (2013-14); Quartz:---NIL (2009-10);4550 (year 2010-11); 5,005 (2011-12); 5,005 (2012-13); 5,232(2013-14);	There is no production since 01/06/2004 due to lack of demand.	NIL

D. Reserve

a. Reserve position as : Feldspar:---- No change as non-working NIL
 per latest MP/MS and 43,875 t (111) + mine.
 at the time of 33,963 t (122) =
 inspection. 77,838 tonnes
 (K2O+N2O=15%)

Quartz:-----
 61,425 t (111) +
 47,547 t(122) =
 1,08,972 tonnes
 (SiO2-97%) (As on
 2012)

RESERVE POSITION AS ON 01/04/2013

QUARTZ		
Category	Quantity in Tonnes	Grade
Proved	61425	SiO2---97%
Probable	47547	
Possible		
Total	108972	As on 1/4/2013
FELSPAR		
Category	Quantity in Tonnes	Grade
Proved	43875	Al2O3---15 to 19%; K2O 6to 11 % and Na2O 3 to 5%
Probable	33963	
Possible	0	
Total	77838	As on 01/04/2013

PRODUCTION FOR THE PREVIOUS YEAR 2012 - 2013

Mineral	Production	Unit
QUARTZ	0	TON
FELSPAR	0	TON

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

Efforts for improving low grade and sub grade mineral. : There is no mineral beneficiation except sizing and sorting manually.

Efforts for improving percentage of recovery of ore. : Not applicable.

Mineral Rule 15

Percentage of recovery of ore pitwise w.r.t. ROM and total material : Non-working mine. As informed 40% recovery of Feldspar and 10% recovery for quartz.

Number of benches in ore and waste. : One bench in OB and two benches in Ore.

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : There is no separate sub-grade stack. However, there are ore stacks.
Low-grade Feldspar:717 tonnes(mixed grade)
Ore stack:-- 578 tonnes of -10mm size and 50 tonnes of +10mm size
There is no quartz-ore stack.

Number and size of each stack : There are three ore stacks of felspar of different grade.

Location of stacking. : Towards western side of ML.

Separate stacking from waste : There is a sub-grade stack

Total area covered for stacking : 0.15 Ha and are for different grade of ore stack of feldspar.

Exploration data as on 31/03/ 2013

No. of Boreholes	No. of Pits	No. of Trenches
0	6	0
0	0	0

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2012 - 2013

Overburden/waste removed (in m3) : 0

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 Mining lease area flat terrain with gently sloping towards South. Highest elevation is 760 m RL and lowest elevation is 740 m RL.
- b. Aesthetic environment : ML area is mainly agricultural and revenue land
- c. Soil and land use pattern : Reddish colour sandy soil.
- d. Agriculture : Zawar and Ragi are main agricultural crop in the area.
- e. Forest(flora and fauna) : Non-forest land with scanty vegetation and thorny bushes.
- f. Vegetation : Zawar and Ragi are main agricultural crop in the area.
- h. Public building, places and monuments (protected, historical), place of worship and places of tourist : There is no. Public building, places and monuments (protected, historical), place of worship and places of tourist in the area.

B Water environment.

- a. Surface water : There is no perennial water source in the ML. A seasonal water tank exist adjacent to ML.
- b. Ground water : There is a well near Village Arudi (about 2 kms)
- c. Quality of water : There is no water discharge from the pit/mine except rain water. No adverse remarks on quality of water reported.

C. Air environment

- a. Noise : The Proposed mining was open-cast manual and non-working mine since long. Therefore, noise pollution has not been reported.
- b. Air : The Proposed mining was open-cast manual and non-working mine since long. Therefore, air pollution has not been reported.
- c. Climatic condition : Dry climatic condition.

D. Socio economic environment

- a. Social and demographic profile. : There are 9 villages within 5 Kms radius from the mine with total population of 10,285. The villagers mainly depend on agriculture.
- b. Recommending health and safety. : The taluk H/Qs Doddaballapur and Gauribidanur are located at about 30 kms from the mine site. All health and safety facilities are available in taluk H/Qs. Primary health Centre is exist in V-Arudi.
- c. Human settlement : There is no human settlement within ML. Nearest village- Arudi (with population of 2891) located about 2 km in NNW direction from mine site.
- d. Recreational facility. : The taluk H/Qs Doddaballapur and Gauribidanur are located at about 30 kms from the mine site and recreational facilities are available in taluk H/Qs.

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>					
Within lease area			Outside lease area		
Area	Trees planted	Survival rate	Area	Trees planted	Survival rate
0	0	0	0	0	0

Area in Hect.

<u>TOP SOIL MANAGEMENT</u>	
Quantity as on 31/03/2013	

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

The party has submitting the Monthly and Annual returns regularly to IBM.

For year 2012-13(Feldspar):-

Opening Stock: 1345 tonnes

Production:-- NIL

Closing stock:-- 1345 tonnes

Cost of production:-- Not mentioned as non-working mine

Ex-mine price of feldspar : Rs 500 (+10 size) Rs 230(-10mm Size) and Rs 100 (low mixed grade) per tonne.

Quartz: No stock.

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.

Not applicable

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

Not applicable

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

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

NIL

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

The boundary pillars of the mining lease are not well maintained condition at time inspection. Necessary action to be initiated for erect/repair/maintenance of boundary pillars by the lessee under Rule 33 of MCR 1960 and Item No. 2 Part-VII of Form K.

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

NIL

Date :

(PRASHANT S HEGDE)

Indian Bureau of Mines