

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

**MCDR INSPECTION REPORT**

**Bangalore regional office**

**Mine file No :** KNT/CTD/MN/135/BNG

**Mine code :** 40KAR07059

- (i) Name of the Inspecting : S011 ) K.SRINIVAS  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri Gururaj, Manager  
Official with  
Designation
- (iv) Date of Inspection : 11/08/2015
- (v) Prev.inspection date : 20/01/2015

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : SHIVAGANGA ML 2453
- (b) **Registration NO.** : 5318
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : CHITRADURGA
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : 080-22440795
- E-mail : mail@ermgroup.in; ermgroup
- Phone : 080-26655930
- (f) **Police Station** : Holalkere
- (g) **First opening date** : 16/12/1977
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/s Alfa Minerals  
No.-59, 12th Main, Banashankari 1st stage  
1st Block, Srinagar, Bangalore--560 050
3. (a) **Lease Number** : KAR0386
- (b) **Lease area** : 23.47
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : MANGANESE ORE Main

## 5. Name and Address of the

Lessee : ALFA MINERALS.  
NO-59, 12TH MAIN  
Banashankari 1st stage, 1st  
block Srinagar-560 050  
BANGALORE KARNATAKA  
Phone:080-26655930  
FAX :080-22440795

Owner : R.PRAVEEN CHANDRA, MD  
M/s ALFA MINERALS, NO-59,  
12TH MAIN BANASHANKARI, 1ST  
STAGE, 1ST BLOCK, SRINAGAR  
560 050 BANGALORE KARNATAKA  
Phone: 080-26655930  
FAX : 080-22440795

## Mining Engineer

Name : DHANANJAYA . G.REDDY,Part Time  
Qualification : B.E (MINING), GM MINES  
Appointment/ : 01/04/2008  
Termination date

## Manager

Name : GURURAJ  
Qualification : Diploma in Mining with 2nd Class MM  
Appointment/ : 01/04/2014  
Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 11/09/2012  
Plan/Scheme of Mining

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1,G2&G3	G1,G2&G3	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Three Core/DTH boreholes	Nine core and two DTH drill holes carried out covering 3.06ha with 534 m meterage.	Rs. 11.33 lakhs incurred towards exploration.
1d	Balance area to be explored to bring Geological axis in 1 or 2	20.47	-	Extent of the area to be explored is all agricultural lands with no sign of outcrops or reef exposures.
1e	Balance reserve as on 01/04/20	-	-	12656 tonnes as on 1.04.2015.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	No specific comments.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Northeaster side of ML	Northeaster side of ML	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	yes	-
2c	Stripping ratio or ore to OB ratio	1:3	1:3.03	-
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	8976	8841	-

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The development of pit is being carried out as proposed.
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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	-
3b	Quantity of ROM mineral production proposed	5088 tonnes.	4960 tonnes.	-
3c	Recovery of sailable/usable mineral from ROM production	100%	99%	-
3d	Quantity of mineral reject generation	Nil	400 tonnes.	Silico Manganese Fines stacked separately as Mineral Rejects
3e	Grade of mineral rejects generation and threshold value declared.	-	7 to 8.5%Mn	-
3f	Quantity of sub grade mineral generation.	250 tonnes	250 tonnes	
3g	Grade of sub grade mineral generation	10-11% Mn	10-11% Mn	
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.	NA	NA	
3j	Provision of drilling and blasting in mineral benches	NA	NA	

3k	Provision of mining machineries in mineral benches	NA	NA	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	2.06 ha	2.06 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:3	1:3.03	
3p	Production of ROM mineral during the last five year period as applicable	2010-11:8000t 2011-12: 10000t 2012-13: 5088t 2013-14:5033t 2014-15:5088t	2010-11:2718t 2011-12: 1611t 2012-13: nil 2013-14:4784t 2014-15:4960t	The production figures given as per Annual Returns.
3q	General remarks of inspecting officers on method of mining etc.	-	-	There is no change in method of mining.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	-
4b	Location of topsoil, OB and mineral reject dumps	N5150-5200, E5000-5075, RL 793-803	N5150-5200, E5000-5070, RL 793-804	-
4c	Number of dumps within lease area and outside of lease area	Within lease area, 1 active, 2 stabilised.	Within lease area, 1 active, 2 stabilised.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps are outside UPL	Dumps are outside UPL	
4e	Number of active and alive dumps.	1 active	1 active	

4f	Number of dead dumps.	2	2	
4g	Number of dumps established.	2	2	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	No specific proposal for the year.	192m retaining wall, 198m garland drain.	The proposal given for the scheme period.
4j	Number of settling ponds	NA	NA	2 check dams constructed outside lease area.
4k	Specific comments of inspecting officer on waste dump management	-	-	No specific comments.

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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.	NA	NA	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed and rehabilitated	NA	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	No proposals for backfilling and reclamation.

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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).	-	Submitted.	
6b	Area available for rehabilitation (ha) .	No Proposal	nil	
6c	afforestation done (ha).	No Proposal	nil	
6d	No. of saplings planted during the year	No Proposal	nil	
6e	Cumulative no .of plants	No Proposal	nil	
6f	Any other method of rehabilitation	No Proposal	nil	
6g	Cost incurred on watch and care during the year	No Proposal	nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No Proposal	nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No Proposal	nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	nil	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal	1800 saplings, 0.72 Ha as Gap plantation in Green Belt building.	8750 cumulative plants planted till 01.04.2015.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	One Season AAQ, Surface Water monitoring, noise monitoring carried out.	One Season AAQ, Surface Water monitoring, noise monitoring carried out.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	No specific comments.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Yes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	

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7c	Different grade of mineral sorted out at mines.	Not specified	blow 22%Mn.	
7d	Any beneficiation process at mines	NA	nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	No specific comments.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	
8b	Concurrent use or storage of topsoil	No proposal	nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	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)	No proposal	nil	
8g	Survival rate	-	65%	
8h	Water sprinkling on roads to control airborne dust	yes	yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	No change.

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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 upto July,2015. AR submitted upto 2014-15.	-	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	-	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	-	-
9d	Scrutiny of Annual return on afforestation	Given	-	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	-	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	-	-

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	-	-
9h	Scrutiny of Annual return on fixed assets	Given	-	-
9k	Scrutiny of Annual return on mining machineries	Given	-	-

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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

**Date :**

**(K.SRINIVAS)**

Indian Bureau of Mines