

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

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KNT/TMK/MN- /BNG

Mine code : 40KAR19029

- (i) Name of the Inspecting : **S011**) **K.SRINIVAS**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Shri R. Kenchappa, Forman, and Shankar, Mine Mate.
Official with
Designation
- (iv) Date of Inspection : 12/03/2016
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SHIVASANDRA ML 2636**
- (b) **Registration NO.** : **IBM/7264/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : KARNATAKA
- District : TUMKUR
- Village : SHIVASANDRA
- Taluka : GUBBI
- Post office : KONDLI
- Pin Code : 572211
- FAX No. : 08392-277845
- E-mail : apmines@yahoo.co.in
- Phone : 08392-277845
- (f) Police Station : Kondli
- (g) First opening date : 28/05/2010
- (h) Weekly day of rest : SUN
2. Address for : SHIVASANDRA VILLAGE, DODDAKONDLI PO
correspondance : GUBBI TALUK, TUMKUR DISTRICT
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : SUNANDA.V.ALLUM
GADGI PALACE, CAR STREET,
BELLARY, BELLARY KARNATAKA
Phone:
FAX :

Owner : SUNANDA.V.ALLUM
GADGI PALACE, CAR STREET,
BELLARY, BELLARY KARNATAKA
Phone:
FAX :

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 22/06/2015
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	5 exploratory boreholes	Nil	The violation has been pointed out.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee Not specified.	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	Nil	
1e	Balance reserve as on 01/04/20	-	-	90,200 tonnes(111) as on 1.4.2015
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The exploration proposed has not been carried out. The violation has been pointed out.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Central part of the ML	Central part of the ML	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1:1.5	1:1.5	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	6000 cu.m	525 cu.m	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The excavation during the year 2015-16 is very less. The violation has been pointed out.
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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	10,000 tonnes	700 tonnes	The violation is pointed out.
3c	Recovery of sailable/usable mineral from ROM production	100%	57%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	nil	nil	
3f	Quantity of sub grade mineral generation.	nil	300 tonnes	
3g	Grade of sub grade mineral generation	nil	+5%Mn	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual screening and sorting	Manual screening and sorting.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Crushing and screening	Crushing and screening	
3j	Provision of drilling and blasting in mineral benches	No proposal	Nil	

3k	Provision of mining machineries in mineral benches	Voltas Excavator Wheel Loader(TATA) 2 Tippers (10t)(TATA)	Voltas Excavator Wheel Loader(TATA) 2 Tippers (10t)(TATA)	
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	2.31ha	1.40 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.5	1: 1.5	
3o	Total area put in use under different heads at the end of year	Not specified	not specified	
3p	Production of ROM mineral during the last five year period as applicable	2010-11:Nil 2011-12:Nil 2012-13:Nil 2013-14:Nil 2014-15:10000t 2015-16: 10000t	2010-11:Nil 2011-12:Nil 2013-14:Nil 2014-15:1600t 2015-16: 700t	Mine started operations only in 2014. The violation is pointed out for less production.
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	Northeastern side of ML	Northeastern side of ML	

4c	Number of dumps within lease area and outside of lease area	Three dumps within the lease.	Three dumps within the lease.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side	Out side	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	Two	Two	
4g	Number of dumps established.	Two	Two	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Not constucted	The violation has been pointed out.
4i	Length of Retaining wall or garland drain all along dumps	75m Retaing wall 80m Garland drain	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	-	-	R&R measures have not been carried out. The violation has been pointed out.

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	Nil	
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 for backfilling as no worked out area is matured.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	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 (L x 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) Afforestation 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	nil	
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)	No proposal	nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	No specific proposals during this scheme period.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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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.	Screening and sorting manually.	Screening and sorting manually.	
7c	Different grade of mineral sorted out at mines.	+5 to +10% Mn.	+5 to +10% Mn.	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Only screening and sorting are being carried out in the mine.

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	Nil	Nil	
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	-	-	There is no impact of mining on aesthetic beauty in and around mines area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted MR upto Feb.2016 Submitted AR for the year 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	-

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)	30/03/2016				
Rule 42(1)(C)(I)	30/03/2016				

Date :
(K.SRINIVAS)

Indian Bureau of Mines