

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : Sri Kenchappa, Manager
Official with
Designation
- (iv) Date of Inspection : 16/07/2018
- (v) Prev.inspection date : 12/03/2016

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 (F)
- E-mail : apmines@yahoo.co.in
- Phone : 08392-277845, 7204295266
- (f) Police Station : Kondli
- (g) First opening date : 28/05/2010
- (h) Weekly day of rest : SUN
2. Address for : M/s Sunanda .V. Allum,
correspondance 11th ward, Gadagi Palace,
Car Street, Bellary - 583101
3. (a) Lease Number : KAR1655
- (b) Lease area : 21.18
- (c) Period of lease : 20
- (d) Date of Expiry : 27/05/2030
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	5 boreholes	nil	The violation has been pointed out.
1b	Exploration over lease area for geological axis 1 or 2	No proposals	nil	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposals	nil	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposals	nil	-
1e	Balance reserve as on 01/04/20	-	-	The balance reserves of Mn ore as on 1.4.2018 is 87,800 tonnes.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The backlog of exploration 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 lease area.	Central part of the lease area.	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	YES	-
2c	Stripping ratio or ore to OB ratio	1:1.55	1:1.55	-
2d	Quantity of topsoil generation in m3	Nil	Nil	-
2e	Quantity of overburden generation in m3	6200 cu.m	852.5 cu.m	-

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Development has not been carried out. 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	1100 tonnes	The violation has been pointed out for less production.
3c	Recovery of sailable/usable mineral from ROM production	40%	40%	-
3d	Quantity of mineral reject generation	Nil	nil	no rejects generated.
3e	Grade of mineral rejects generation and threshold value declared.	nil	nil	-
3f	Quantity of sub grade mineral generation.	nil	nil	No subgrade generation.
3g	Grade of sub grade mineral generation	Nil	Nil	-
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.	Dry crushing and screening	Dry crushing and screening	-
3j	Provision of drilling and blasting in mineral benches	No proposals	nil	No proposals since ore zone is soft in nature with Phyllite.

3k	Provision of mining machineries in mineral benches	Yes	Yes	-
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	2.31ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1: 1.55	1: 1.55	-
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	2013-14:nil 2014-15:10,000t 2015-16:10,000t 2016-17:10,000t 2017-18:10,000t	2013-14:NIL 2015-16:1600t 2016-17:700t 2017-18:1100t	The violation has been 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 the mining lease.	Northeastern side of the mining lease.	-
4c	Number of dumps within lease area and outside of lease area	three dumps	Three dumps	-

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside	outside	-
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 carried out.	The violation has been pointed out.
4i	Length of Retaining wall or garland drain all along dumps	75m	Nil	-
4j	Number of settling ponds	No proposals	Nil	-
4k	Specific comments of inspecting officer on waste dump management	-	-	The proposals on waste dump management 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 proposals	nil	-
5b	Area under backfilling of mined out area	No proposals	nil	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals	nil	-
5d	Total area fully reclaimed and rehabilitated	No proposals	nil	-

5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	At present no proposals on backfilling, 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 proposals	nil	-
6c	afforestation done (ha).	No proposals	nil	-
6d	No. of saplings planted during the year	No proposals	nil	-
6e	Cumulative no .of plants	No proposals	nil	-
6f	Any other method of rehabilitation	No proposals	nil	-
6g	Cost incurred on watch and care during the year	No proposals	nil	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposals	nil	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals	nil	-

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposals	nil	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals	nil	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals	nil	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposals	nil	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposals	nil	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposals	nil	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	No proposals	nil	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	No specific proposals during the 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 dry crushing screening and sorting being carried out in the mine site.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposals	Nil	-
8b	Concurrent use or storage of topsoil	No proposals	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 proposals	Nil	-

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals	nil	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1025 plants	1100 plants	-
8g	Survival rate	80%	70%	-
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 change in 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	MR submitted upto June, 2018 AR submitted for the year 2017-18	-	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given	No ME and Geologist appointed.	The violation has been pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given	-	-
9d	Scrutiny of Annual return on afforestation	Details given	-	-

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given	-	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given	-	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given	The cost of production is Rs 2240/- per tonne and Ex-mine price is Rs2250/- per tonne.	-
9h	Scrutiny of Annual return on fixed assets	Details given	-	-
9k	Scrutiny of Annual return on mining machineries	Details given	-	-

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17 Rule 11(1)	31/07/2018		MCDR17 Rule 11(1)	31/07/2018	
MCDR17 Rule 46(a)	31/07/2018		MCDR17 Rule 46(a)	31/07/2018	

Date :

(K.SRINIVAS)

Indian Bureau of Mines