

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

**MCDR inspection REPORT**

**Bangalore regional office**

**Mine file No :** KNT/TMK/MN/55/BNG

**Mine code :** 40KAR19029

- (i) Name of the Inspecting : **277** ) **GANGADHAR BHAKAT**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri. R. Kenchappa, Mines Manager  
Official with  
Designation
- (iv) Date of Inspection : 16/03/2023
- (v) Prev.inspection date : 09/05/2022

**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 : sunandaallum@gmail.com
- 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** : 21.38
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 27/05/2060
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 :

Agent : Basavaraj  
 Gadigi Palace Car street  
 Ballari BELLARY KARNATAKA  
 Phone: 08392-267666  
 FAX : 08392-267666

## Mining Engineer

Name : VINOD KUMAR,Full Time  
 Qualification : B.E MINING  
 Appointment/ : 12/04/2018  
 Termination date

## Geologist

Name : ANIL N. L.,Full Time  
 Qualification : M.Sc (Geology)  
 Appointment/ : 15/06/2022  
 Termination date

## Manager

Name : R.KENCHAPPA  
 Qualification : MINE FORMEN CERTIFICATE  
 Appointment/ : 15/10/2011  
 Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 22/06/2015  
 Plan/Scheme of Mining : MP review under 17(1) MCR 2016 06/05/2020

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal.	NIL	
1b	Exploration over lease area for geological axis 1 or 2	No Proposal.	NIL	12 bore holes done in 2020-21.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal.	Nil.	Entire lease area explored to G1 level.
1e	Balance reserve as on 01/04/20	-	-	101450 Tons
1f	General remarks of inspecting officers on geology, exploration etc			Exploration done as per the proposal in the approved MP and total area in G1.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1476840 to 1476711, N 691353 to 691599	N 1476832 to 1476709, N 691358 to 691592	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in overburden & mineral proposed.	Separate benches in overburden maintained.	1 bench in OB. 2-benches in mineral.
2c	Stripping ratio or ore to OB ratio	1:4.36	1:4.63	Ore: 7700 Ton OB:35651Ton
2d	Quantity of topsoil generation in m3	No Proposal.	Nil.	No topsoil generation.
2e	Quantity of overburden generation in m3	19433 Cum	17825 Cum	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development work carried out within the proposed location.
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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	10000 Tons	7700 Tons	Less production due to lake of market demand & less grade.
3c	Recovery of sailable/usable mineral from ROM production	25% Mineral 75% Waste	25% Mineral 75% Waste	Waste will be handled separately stored in dump.
3d	Quantity of mineral reject generation	1000 Tons	500 Tons	Information furnished by mine Management.
3e	Grade of mineral rejects generation and threshold value declared.	10% Mn	10% Mn	-
3f	Quantity of sub grade mineral generation.	No Proposal.	NIL	-
3g	Grade of sub grade mineral generation	No Proposal.	NIL	-
3h	Manual / Mechanised method adopted for segregating from ROM	Proposed manual method for segregating from ROM.	Manual method adopted for segregating from ROM.	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal.	NIL	
3j	Provision of drilling and blasting in mineral benches	No Proposal.	NIL	

3k	Provision of mining machineries in mineral benches	Yes.	Excavator -1 No. Tipper - 6 No's Wheel loader-1 No Water Tanker- 1 No. Screening plant-1 No.	Haired machinery's
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3-5 Mts Height & 3-9Mts Width	3-5 Mts Height & 3-9Mts Width	
3m	Total area covered under excavation/pits	3.73Ha	2.0 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:4.36	1:4.63	
3o	Total area put in use under different heads at the end of year	Working-3.90Ha Waste dump- 1.390 Ha, Mineral storage-1.17a Infrastructure , office, workshop etc.- 0.09 Ha Roads- 0.31 Ha Green Belt- 2.26 Ha Afforestation- 5.09 Ha Others- 7.17 Ha	Working-2.0Ha Waste dump-0.5 Ha, Mineral storage-1.17Ha Infrastructure, office, workshop etc.- 0.09 Ha Roads- 0.31 Ha Green Belt- 2.26 Ha Afforestation- 5.09 Ha Others- 7.17 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18:10000 2018-19: 10000 2019-20: 10000 2020-21: 10000 2021-22: 10,000 ( in tonnes)	2017-18:1300 2018-19: 1100 2019-20: Nil. 2020-21: 1750 2021-22: 7700 (in tonnes)	
3q	General remarks of inspecting officers on method of mining etc.			Mining operation carried out as proposals.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping for OB proposed.	Separate dumping is done.	
4b	Location of topsoil, OB and mineral reject dumps	For OB: N 1476857 to 1476732, N 691594 to 691729 For MR: N 1476807 to 1476777, N 691087 to 691112	Carried out as per proposal.	No topsoil generation.
4c	Number of dumps within lease area and outside of lease area	1 dumps (WML)	1 dumps (WML)	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside the UPL.	Carried as per proposal.	
4e	Number of active and alive dumps.	1 dumps.	1 dumps.	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	No Proposal.	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal.	Nil.	Maintained existing structure.
4i	Length of Retaining wall or garland drain all along dumps	No Proposal.	NIL	Maintained existing structure.
4j	Number of settling ponds	No Proposal.	NIL	Maintained existing structure.
4k	Specific comments of inspecting officer on waste dump management			Workings as per approved proposals.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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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 proposals during this plan period.

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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).	Yes	Submitted within time.	
6b	Area available for rehabilitation (ha) .	No proposal.	NIL	
6c	afforestation done (ha).	0.30Ha	0.30Ha	Buffer zone & other area.
6d	No. of saplings planted during the year	Proposed 750 Nos.	1150 Nos.	WML -1150 No's
6e	Cumulative no .of plants	-	2300 Nos.	During plan period.
6f	Any other method of rehabilitation	No proposal.	NIL	
6g	Cost incurred on watch and care during the year	1.0 Lakh.	3.5 Lakh.	As per information furnished by mine management.

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)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)	Environmental monitoring proposed for Air, Water & Noise at core zone & buffer zone.	Environment monitoring carried out by M/s. MSV Analytical Lab, Ballari.	All the parameters are within the limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environmental monitoring work carried out by M/s. MSV Analytical Lab, Ballari for Air, Water & Noise at core zone & buffer zone.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual sorting & sizing.	Sorting& sizing carried out within lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual method proposed for grade-wise mineral sorting.	Manual method adopted for grade-wise mineral sorting.	
7c	Different grade of mineral sorted out at mines.	No proposal.	Below 25% Mn	
7d	Any beneficiation process at mines	No proposal.	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral shorting manually by hand picking from pit.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	Nil.	No topsoil generated.
8b	Concurrent use or storage of topsoil	No proposal.	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed.	Carried out as per proposal.	
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)	0.30 Ha 750 Nos	0.30 Ha 1150 Nos	
8g	Survival rate	No proposal.	50%	As per AR for the year 2021-22.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul road proposed.	Water sprinkling was carried out to control air born dust.	Water tanker capacity 1000 Ltr.
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.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to February-2023 A.R. Submitted up to year 2021-2022	M.R. Submitted on 09/03/2023. A.R. Submitted on 23/06/2022.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - Shri. R. Kenchappa, Geologist - Anil L. N.	Appear to be correct.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Working-2.0Ha Waste dump-0.5 Ha, Mineral storage-1.17Ha Infrastructure , office, workshop etc.- 0.09 Ha Roads- 0.31 Ha Green Belt- 2.26 Ha Afforestation- 5.09 Ha Others- 7.17 Ha	Appear to be correct.
9d	Scrutiny of Annual return on afforestation	WML: 1150 Nos. & survival rate: 50%	Appear to be correct.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	500 Tons mineral reject produced and stacked (10% Mn)	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Manganese ore: 7700 Tons.	Appear to be correct.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Manganese ore- 2034 Rs/ Ton	Appear to be correct.
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets: Rs. 1545777/-	Appear to be correct.

9k      Scrutiny of      Excavator -1      Appear to be correct.  
Annual return on      No.  
mining      Tipper - 6  
machineries      No's  
Wheel loader-1  
No  
Water Tanker-  
1 No.  
Screening  
plant-1 No.

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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 :**

(GANGADHAR BHAKAT)

Indian Bureau of Mines