

**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 : **OM5**) **Dr.OMKESHA MURTHY.M.G**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Sri. R.Kenchappa, Mines Manager.
Official with
Designation
- (iv) Date of Inspection : 09/05/2022
- (v) Prev.inspection date : 03/02/2020

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** : **21.18**
- (c) **Period of lease** : **30**
- (d) **Date of Expiry** : **27/05/2040**
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 : 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	-	=	=
1b	Exploration over lease area for geological axis 1 or 2	No proposal	No proposal	12 bore holes done in 2020-21.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	-	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	No proposal	Entire lease area explored to G1
1e	Balance reserve as on 01/04/20			109150 MT
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	N1476840 N 1476711 to E691353 E691599	N1476840 N 1476711 to E691353 E691599	Some deviation is due to less production for that violation pointed out
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in Overburden proposed	Separate benches in Overburden maintained	1 benches in OB 2 Bench in Ore
2c	Stripping ratio or ore to OB ratio	1:1.36	1:0.25	-
2d	Quantity of topsoil generation in m3	No proposal	NA	No generation of top soil, working within broken up area.
2e	Quantity of overburden generation in m3	19433 cum	7500 cum	--

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Worked as per the proposal due to less production in year 2020-21 and 2021-22 as a result there is difference in progressive movement of benches seen, for that violation pointed out after inspection.
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Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	10000 t	7700tonnes	Less production due to lack of market demand and 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	1000ton	500tons	Stocked separately
3e	Grade of mineral rejects generation and threshold value declared.	10% MN	10% MN	
3f	Quantity of sub grade mineral generation.	No proposal	No proposal	
3g	Grade of sub grade mineral generation	No proposal	No proposal	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Manual with deployment of labors by hand sorting & picking.

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No proposal	
3j	Provision of drilling and blasting in mineral benches	No proposal	No proposal	
3k	Provision of mining machineries in mineral benches	Proposed Excavator-1 Trucks-4 Wheel loader-1 Water tanker - 1 Mobile screening plant -1 Jeep -1	Provided as per MP Excavator-1 Trucks-4 Wheel loader-1 Water tanker -1 Mobile screening plant - 1	As per the proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3-5Mts Height 3-9 MtsWidth	3-5Mts Height 3-9 MtsWidth	Maintained
3m	Total area covered under excavation/pits	3.73Ha	3.73Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:5.25	1:0.21	
3o	Total area put in use under different heads at the end of year	Mining - 3.90 Dumps - 1.39 Mineral storage :1.17. Infrastructure - Office,worksho p etc :0.09 Roads :0.31 Green Belt- 2.26 Afforestation -5.09 Ha Others :07.17 Total - 21.38	Mining - 3.90 Dumps - 1.39 Mineral storage :1.17. Infrastructure- Office,workshop etc :0.09 Roads :0.31 Green Belt- 2.26 Afforestation -5.09 Ha Others :07.17 Total - 21.38	

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 : 10000 (in tonnes)	2017-18: 1300 2018-19: 1100 2019-20: 0 2020-21 :1750 2021-22 :7700 (in tonnes)
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3q	General remarks of inspecting officers on method of mining etc.	Mining operation carried out as per proposals
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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 N1476857 TO 1476732 E 691594TO 691729 For reject N1476807 1476777 to E 691087 691112	For OB N1476857 TO 1476732 E 691594TO 691729 For reject N1476807 1476777 to E 691087 691112	Mineral reject and will be stocked separately.
4c	Number of dumps within lease area and outside of lease area	Dump within lease area 1Nos	Dump within lease area 1Nos	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)		As per proposal	As per proposal
4e	Number of active and alive dumps.	1 no s	1 no s	
4f	Number of dead dumps.	0	0	
4g	Number of dumps established.	No proposal	No proposal	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	No proposal	

4i	Length of Retaining wall or garland drain all along dumps	No proposal	No proposal	Maintained of existing structures
4j	Number of settling ponds	No proposal	No proposal	Maintained of existing structures
4k	Specific comments of inspecting officer on waste dump management			Workings as per approved proposal

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

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).			This year due for submission

6b	Area available for rehabilitation (ha) .	NA	-	-
6c	afforestation done (ha).	0.30	0.30	-
6d	No. of saplings planted during the year	750	1150	65% survival rate
6e	Cumulative no .of plants	NA	26000	-
6f	Any other method of rehabilitation	NA	Plantation	
6g	Cost incurred on watch and care during the year		3.5L	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	No proposal	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	No proposal	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal	No proposal	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	No proposal	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	No proposal	-

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	No proposal	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	No proposal	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	No proposal	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring (core zone & buffer zone) Proposed	Environmental monitoring (core zone & buffer zone) Done	All the environmental parameters were observed within permissible limits
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting proposed within the lease area.	As per proposal.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Proposed Manual	As per proposal	Deployment of labors by hand sorting & picking.
7c	Different grade of mineral sorted out at mines.	No proposal	No proposal	
7d	Any beneficiation process at mines	No proposal	NA	NA

7e General remarks of inspecting officer on Mineral conservation and beneficiation issues Working as per proposal

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	No generation of top soil	Work is carried out in broken up area.
8b	Concurrent use or storage of topsoil	No proposal	No proposal	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Yes, done as per approved Mine plan	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	No proposal	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	No proposal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	0.30Ha 750Nos	0.50 1200 nos	
8g	Survival rate	50%	50%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Done as per proposal.	One water tankers of 1000 L capacity used for dust suppression.

8i General remarks
of inspecting
officer 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	Timely submitted	AR due for submission	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engg. - 1	Geologist appointed in the mines not present on the date of inspection of mine also notice of appointment not available appointment of Geologist	Violation issued under Rule 46 of MCDR 2017
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining - 3.90 Dumps - 1.39 Mineral storage :1.17. Infrastructure - Office,worksho p etc :0.09 Roads :0.31 Green Belt- 2.26 Afforestation -5.09 Ha Others :07.17 Total - 21.38		
9d	Scrutiny of Annual return on afforestation	1137 Nos		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	500 MT mineral reject (fines) was produced and stacked (10%MN)		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Manganese ore -7700		
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Manganese ore- 2037 Rs/ ton		

9h	Scrutiny of Annual return on fixed assets	1095777
9k	Scrutiny of Annual return on mining machineries	Excavator-1 Trucks-4 Wheel loader-1 Water tanker - 1 Mobile screening plant -1 Jeep -1

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
MCDR17	Rule 11(1)	02/06/2022			
MCDR17	Rule 32(1)(e)	02/06/2022			
MCDR17	Rule 46(a)	02/06/2022			

Date :

(Dr.OMKESHA MURTHY.M.G)

Indian Bureau of Mines