

**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 : **S19**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : R. Kenchappa-Mine Foreman
Official with
Designation
- (iv) Date of Inspection : 03/02/2020
- (v) Prev.inspection date : 16/07/2018

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 correspondance** : M/s Sunanda .V. Allum,
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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	5 boreholes for the year 2015-16, Total meterage 190m	Nil	Previous violation was given for non compliance w.r.t approved proposal for exploration and further mine is sususpended w.e.f 11/3/2019 vide IBM suspension order no KNT/TMK/Mn-55/BNG dated 11/3/19.The lessee has recently drilled 5 exploratory coreboreholes amounting to 151 m in the field for compliance.
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	-	88517 tons .	As per Annual return submitted for FY 2018-19.

1f	General remarks of inspecting officers on geology, exploration etc	No Exploration proposed in the reporting year. The mine is under suspension w.e.f 11.3.2019 vide IBM suspension order no KNT/TMK/Mn-55/BNG dated 11/3/19 for non compliance of the exploration proposal for the year 2015-16. The lessee has recently drilled 5 exploratory coreboreholes amounting to 151 m in the field for compliance.
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Development :

Sl.No.	Item	Propasals	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	No topsoil, Mining is in broken up area. All benches are in Mineral and O/B.
2c	Stripping ratio or ore to OB ratio	1:1.64	1:3.97	(By Volm)- 440 m3 of ore and 1750 m3 of waste generated for the year 2018-19.
2d	Quantity of topsoil generation in m3	Nil	Nil	No topsoil generation.
2e	Quantity of overburden generation in m3	6550 m3	1750 m3	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine is under suspension w.e.f 11/3/19 vide IBM order no KNT/TMK/Mn-55/BNG dated 11/3/19 for non compliance on earlier approved proposal.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	—
3b	Quantity of ROM mineral production proposed	10,000	1100 tons	The mine is already under suspension for less production w.r.t the proposal for the year 2017-18 vide IBM Suspension order no KNT/TMK/Mn-55/BNG dated 11/3/19.
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	—
3d	Quantity of mineral reject generation	Nil	2000 tonnes as mentioned in AR-2018-19	No mineral reject generation in approved proposal.
3e	Grade of mineral rejects generation and threshold value declared.	nil	10% Mn as mentioned in AR 2018-19.	No mineral reject generation has been proposed in the approved proposal.
3f	Quantity of sub grade mineral generation.	Nil	Nil	—
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.	No Proposal	Nil	—
3j	Provision of drilling and blasting in mineral benches	No Proposal	Nil	No proposal since ore zone is soft in nature with phyllite.

3k	Provision of mining machineries in mineral benches	Excavator-1, Wheel Loader-1, Tipper-2, Water tanker-1, Mobile screening plant-1	No details given in AR 2018-19. No Mining machineries found as the mine is suspended w.e.f 11/3/19.	The Mine is suspended vide IBM suspension order no KNT/TMK/Mn-55/BNG dated 11/3/19.
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	2.31 ha proposed under mining pit at the end of plan period	2.00 ha covered under the working pit.	—
3n	Ore to OB ratio for the pit/mine during the year.	1:1.64	1:3.97	(by Vol)
3o	Total area put in use under different heads at the end of year	Mining: 2.31 ha, Waste dump: 0.68 ha Roads & Infrastructure: 0.4 Safety Zone & Afforestation: 7.35 ha	Mining: 2.00 ha, Waste dump: 0.50 ha Roads & Infrastructures: 0.13 Safety Zone & Afforestation: 7.35 ha	—
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 10000 tons 2015-16: 10000 tons 2016-17: 10000 tons 2017-18: 10000 tons 2018-19: 10000 tons	2014-15: 1600 tons 2015-16: 1200 tons 2016-17: 600 tons 2017-18: 1100 tons 2018-19: 1100 tons	The mine is under suspension w.e.f 11/3/19 due to non compliance for violation related to less production for the year 2017-18 w.r.t approved proposal, vide IBM suspension order no KNT/TMK/Mn-55/BNG dated 11/3/19.
3q	General remarks of inspecting officers on method of mining etc.			—

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping of O/B is proposed	Seperate dumping of O/B is carried out	-
4b	Location of topsoil, OB and mineral reject dumps	Northeastern side of the mining lease	Northeastern side of the mining lease	OB dump E-691550 to E-691650, N-1477100 to N-1476960
4c	Number of dumps within lease area and outside of lease area	Three dumps within Lease area.	Three dumps.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	O/B dump proposed outside UPL	O/B dump located outside UPL	-
4e	Number of active and alive dumps.	One dump	One dump	-
4f	Number of dead dumps.	Two	Two	-
4g	Number of dumps established.	No proposal	Nil	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall 75 m proposed along waste dump for the year 2015-16 Garland drain 80 m proposed below waste dump for the year 2015-16.	Retaining wall of 100 m has been completed. The garland drain construction not done.	The mine is under suspension w.e.f 11.3.19 due to non construction of retaining wall and garland drain as per the approved proposal vide IBM suspension order no KNT/TMK/Mn-55/BNG dated 11/3/19
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall 75 m proposed , Garland drain 80 m proposed in the year 2015-16.	Retaining wall of 100 m has been constructed. The garland drain construction not done.	The mine is under suspension w.e.f 11.3.19.
4j	Number of settling ponds	No proposal	Nil	-

4k	Specific comments of inspecting officer on waste dump management			As the proposals on waste dump management was not complied the mine is under suspension w.e.f 11/3/19 vide IBM suspension order no KNT/TMK/Mn-55/BNG dated 11/3/19. The lesee has recently constructed 100 m of approx retaining wall, 4 gully checks and one Masonry Check dam for compliance.
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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.	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.			At present no proposals on backfilling reclamation.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted before 1st July of every year	Not submitted	Violation issued for non submission of annual PMCP report.
6b	Area available for rehabilitation (ha) .	No proposals	Nil	—
6c	afforestation done (ha).	850 saplings proposed	1500 saplings	—
6d	No. of saplings planted during the year	850 saplings proposed	1500 saplings planted	—
6e	Cumulative no .of plants	625-(2015-16) 750-(2016-17) 1025-(2017-18) 850-(2018-19)	As per proposal.	—
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 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)	0.34 ha	1500 saplings planted for the year 2018-19	—
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation proposed	Plantation carried out	—
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.			The plantation as proposed in PMCP was carried out as per proposal.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting proposed. Only Mechanical screening for size seperation.	Manual screening and sorting.	—
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical screening for different sizes of Calibrated ore & lumps	Manual screening .	—
7c	Different grade of mineral sorted out at mines.	+10 % Mn	+10 % Mn	—
7d	Any beneficiation process at mines	Nil	Nil	—
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Manual sorting and screening carried out at 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)	Seperate dumping of O/B proposed at Northeastern side of Mining Lease.	Seperate O/B dumping carried out at Northeastern side of ML area.	Nil
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)	5.09 Ha area is covered by Acacia Arcaliformus plantation.	1500 saplings planted during 2018-19 within ML area.	—
8g	Survival rate	No Proposal	40 %	—
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed to control airborne dust	Water sprinkling carried out.	—
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The mine is under suspension w.e.f 11/3/19 vide IBM suspension order no KNT/TMK/Mn-55/BNG dated 11/3/19. There is no change in aesthetic beauty in and around mines area.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR submitted up to Dec-2019, AR submitted up to 2018-19.	MR submitted up to Dec-2019, AR submitted up to 2018-19.	Online Returns submitted
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	R.Kenchappa-Mine manager Vinod Kumar-Mining Engineer No information on Geologist	No Mining Engineer and Geologist present during inspection.	The previous violation was given regarding non appointment of Mining Engineer and Geologist and further the mine was suspended w.e.f 11/3/19.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining -2.0 ha, Waste dump- 0.5 ha Infrastructure -0.13 ha Safety Zone & afforestation- 7.35 ha	Appears to be correct.	—
9d	Scrutiny of Annual return on afforestation	1500 saplings planted within ML area at 40 % survival rate	Appears to be correct.	—
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	2000 tons , 10 % Mn	Appears to be correct.	—
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock of ROM- 0 tons Production of ROM-1100 tons Closing Stock- 150 tons, Below	Appears to be correct.	—
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given	Cost of production is Rs 2553 Rs/ton	—
9h	Scrutiny of Annual return on fixed assets	Details given	—	—
9k	Scrutiny of Annual return on mining machineries	Nil	—	The mine is not working and under suspension w.e.f 11/3/19 .

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(4)	10/02/2020			
MCDR17	Rule 26(2)	10/02/2020			

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines