

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

**Inspection under SDF for star rating of mines REPORT**

**Bangalore regional office**

**Mine file No :** KNT/BLR/FE/79/BNG

**Mine code :** 30KAR03012

- (i) Name of the Inspecting : **278** ) **KRISHNENDU CHATTERJEE**  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : S/Shri. Laxmikanth-Manager & Ekambrappa.B-Mining Engi  
Official with  
Designation
- (iv) Date of Inspection : 06/09/2018
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **S.V.CHETTY'S**
- (b) **Registration NO.** : **IBM/293/2011**
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BELLARY
- Village : JAISINGPUR
- Taluka : SANDUR
- Post office : SUSHILNAGAR
- Pin Code :
- FAX No. : 08394 - 230439
- E-mail : svciom@gmail.com,
- Phone : 08394230439, 9742779999, 98
- (f) **Police Station** : SANDUR
- (g) **First opening date** : 28/05/1979
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : S.V.SRINIVASULU ,OLD INCOME TAX OFFICE BUILDING,  
NEAR SAHAKARI KALYANA MANATAPA, N.C.COLONY HOSPE  
BELLARY-583201
3. (a) **Lease Number** : KAR0226
- (b) **Lease area** : 60
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 31/03/2020
4. **Mineral worked** : IRON ORE Main

## 5. Name and Address of the

Lessee : S.V.SRINIVASULU  
 MINE OWNER M.J.NAGAR HOSPET  
 BELLARY KARNATAKA  
 Phone:  
 FAX :

Owner : S.V.SRINIVASULU  
 M.J. ROAD, HOSPET, BELLARY.  
 BELLARY KARNATAKA  
 Phone:  
 FAX :

## Mining Engineer

Name : EKAMBRAPPA B, Full Time  
 Qualification : B E MINING  
 Appointment/ : 18/01/2012  
 Termination date

## Manager

Name : LAXMIKANTH  
 Qualification : FCC  
 Appointment/ : 16/06/2016  
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	09/08/1994
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	08/07/2005
		Modif.of approved Mining Plan	22/09/2008
		Mining Scheme rule 12 MCDR1988	29/07/2010
		Modif.approved Mining Scheme	03/01/2014
		Mining Scheme rule 12 MCDR1988	30/04/2015
		MP modif under MCR 1960	22/06/2016
		MP modif under 17(3) MCR 2016	05/04/2018

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10 DTH holes	8 DTH holes drilled.	
1b	Exploration over lease area for geological axis 1 or 2	G1 & G2	G2 Stage.	So far, lessee has carried out 75 nos. of trial pits and 8 nos. of DTH holes in the ML area.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Rs. 1.10 lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1	G1 & G2 stage.	
1e	Balance reserve as on 01/04/20	No proposal.	3.1 million tonnes as on 01.04.2018	
1f	General remarks of inspecting officers on geology, exploration etc		Violation of rule 11(1) was issued to the lessee dated 03.10.2018 for not carrying out exploration as per the approved proposal.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North eastern side of the ML area from section no. N-N' to Q-Q'.	No change in location.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in float ore proposed.	Separate benches in float ore maintained as per fall of topography.	Since it is a float ore deposit, there was no separate benches in top soil and OB.
2c	Stripping ratio or ore to OB ratio	1:0.22	1:0.26	
2d	Quantity of topsoil generation in m3	No proposal	No top soil generation during 2017-18.	

2e	Quantity of overburden generation in m3	11100 m3	12979 m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No deviation in respect of mine development was observed during the course of inspection dated 06.09.2018.	

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed.	Single pit worked during 2017-18, A1 pit.	05 nos. of pits located in the ML area with following dimentions: A1 Pit: 440m(L) x 400m (W) x 5m (D) A2 Pit: 250m(L) x 350m (W) x 3m (D) A3 Pit: 300m(L) x 230m (W) x 3m (D) A5 Pit: 60m(L) x 130m (W) x 5m (D) A6 Pit: 100m(L) x 50m (W) x 4m (D)
3b	Quantity of ROM mineral production proposed	100,000 tonnes	100,000 tonnes of ROM produced during 2017-18	This quantity was exclusive of intercalated waste within float ore.
3c	Recovery of sailable/usable mineral from ROM production	75% recovery proposed.	75% recovery of ROM from float ore	
3d	Quantity of mineral reject generation	No proposal	No mineral reject generation during 2017-18.	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not Applicable.	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	Not Applicable.	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method proposed.	Mechanized method adopted.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal for beneficiation.	Nil
3j	Provision of drilling and blasting in mineral benches	No proposal for drilling and blasting.	Drilling and blasting not carried out.
3k	Provision of mining machineries in mineral benches	Proposed.	Excavators in combination with tippers.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	Bench height maintained from 3 to 5m as per the thickness of the float ore.
3m	Total area covered under excavation/pits	25.62 Ha.	Total 25.62 Ha. area covered by 5 pits, 1.2 Ha. area was mined during 2017-18 in A1 pit.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.22	1:0.26
3o	Total area put in use under different heads at the end of year	38.71 Ha.	No change in area.
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 45007 2014-15: 79884 2015-16: 80000 2016-17: 99960 2017-18: 100000 (in tonnes)	2013-14: Nil 2014-15: Nil 2015-16: 80000 2016-17: 90000 2017-18: 100000 (in tonnes)
3q	General remarks of inspecting officers on method of mining etc.		No deviation in respect of mineral exploitation was observed during the course of inspection.

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal	Waste generated was used for concurrent backfilling.	
4b	Location of topsoil, OB and mineral reject dumps	No proposal	Nil	
4c	Number of dumps within lease area and outside of lease area	1 within ML	1 dump within ML	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	No proposal	No active dump within ML.	
4f	Number of dead dumps.	01 inactive dump	01 inactive dump	
4g	Number of dumps established.	01 inactive dump	Inactive dump stabilized by plantation.	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed as per the approved R & R Plan.	Constructed as per the approved R & R Plan.	
4i	Length of Retaining wall or garland drain all along dumps	Proposed as per approved R & R Plan.	Retaining wall: 235m within ML and 244 m outside ML constructed. Garland drain: 235 m within ML and 339 m outside ML constructed.	
4j	Number of settling ponds	01 no. within ML	01 no. within ML constructed.	
4k	Specific comments of inspecting officer on waste dump management		No deviation in respect of waste management was observed during the course of inspection.	

#### 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.	After complete extraction of float ore backfilling was proposed.	Concurrent backfilling was carried out.	

5b	Area under backfilling of mined out area	0.55 Ha. proposed	0.56 Ha. area of A1 pit backfilled.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	No topsoil generation.
5d	Total area fully reclaimed and rehabilitated	7 Ha. during F.Y. 2017-18.	7.09 ha. area reclaimed and rehabilitated.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		No deviation in respect of backfilling was observed during the course of inspection.

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).	Proposed.	Annual report submitted for F.Y. 2017-18 on 06.07.2018.	
6b	Area available for rehabilitation (ha) .	7 Ha.	7.09 Ha. area.	
6c	afforestation done (ha).	0.65 Ha.	0.65 Ha.	
6d	No. of saplings planted during the year	3000 nos. within ML	No change.	
6e	Cumulative no .of plants	Not specified.	Approx. 125,000 nos. within ML.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	Rs. 650,000/-	Rs. 700,000/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	0.55 Ha.	0.56 Ha. in Pit no. A1	

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 backfilled area	No proposal	Nil	Afforestation on backfilled area not yet commenced.
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	No waste land involve within ML, entire ML located within Sandur Reserve Forest.	
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)	Proposed.	Carried out on monthly basis and results were found within permissible limit.	



6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No deviation in respect of PMCP compliance was found during the course of inspection.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM proposed to be crushed and dry screening.	ROM was being crushed and dry screening.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised Crushing	Mechanised Crushing	
7c	Different grade of mineral sorted out at mines.	Proposed for all +45% Fe.	45 to 55%, 58 to 60%, 60 to 62% Fe.	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		No deviation in respect of mineral conservation was observed during the course of inspection.	

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No top soil generation during F.Y 2017-18.	
8b	Concurrent use or storage of topsoil	No proposal	Nil	

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumping for OB not proposed.	Waste was disposed by means of concurrent backfilling.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed by waste.	Concurrent backfilling of mined out pit in progress.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Restoation proposed for mined out pits.	Compiled through concurrent backfilling and afforestation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	3000 nos. of saplings were planted during 2017-18, cumulative 125,000 nos. of trees planted within the ML area.
8g	Survival rate	70%	70 to 80%
8h	Water sprinkling on roads to control airborne dust	proposed.	Yes, Dust suppression carried out by deploying water tanker on mine haul road.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around mine was good and lessee had carried out afforestation and other environmental protective measures as per approved RMP.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly Returns submitted upto Oct.2018 Annual Return submitted upto 2017-18.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: B. Ekambarappa Mining Geologist: Harshavardana A.S. Manager: Laxmikanth	Mining Engineer: B. Ekambarappa Mining Geologist: Harshavardana A.S. Manager: Laxmikanth
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under current O/C working: 25.62 Ha. Already exploited and abandoned: 4.8 Ha. Used for waste disposal: 2.35 Ha. Reclaimed: 7.09Ha. Infrastructure and road: 9.54 Ha. Sub-grade stack: 10.82 Ha.	Appear to be correct.
9d	Scrutiny of Annual return on afforestation	3000 nos.	No change.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generation.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stack: Nil Dump working: 112047 tonnes	Sub grade dump located north eastern side of the ML.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value: 58 to 60% (Lumps): Rs. 2445.7/ tonne 60 to 62% (Lumps): Rs. 2377.9/ tonne Below 55% (Fines): Rs. 789.5/ tonne 58 to 60% (Fines): Rs. 799/ tonne Cost of production: Rs. 1917.08/ tonne	Appear to be correct.
9h	Scrutiny of Annual return on fixed assets	Rs. 32420,484/-	Office building, Mining machineries, Crushers & dry screens were present within the ML area.
9k	Scrutiny of Annual return on mining machineries	3 nos. of hydraulic excavators, 6 nos. of tippers, 3 nos. of wheel loaders, 1 no. of crusher and 1no. of water tanker	No change.

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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
MCDR17	Rule 11(1)	01/10/2018	04/12/2018				
MCDR17	Rule 35(1)	01/10/2018	04/12/2018				
MCDR17	Rule 11(1)	04/10/2018					
MCDR17	Rule 35(2)	04/10/2018					

**Date :**

**(KRISHNENDU CHATTERJEE)**

Indian Bureau of Mines