

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

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/461/BNG

Mine code : 30KAR03163

- (i) Name of the Inspecting : **M003**) **G C MEENA**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Mr.Sanjay kumar, Senior Mines manager
Official with
Designation
- (iv) Date of Inspection : 14/03/2020
- (v) Prev.inspection date : 17/06/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DONIMALAI**
- (b) **Registration NO.** : **IBM/4357/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELLARY
Village : NARASAPURA
Taluka : SANDUR
Post office : SANDUR
Pin Code :
FAX No. : 080-41495664,gurunanda20060
E-mail : sgavim@gmail.com,gurunanda:
Phone : 080-41495660 9972309483 (M
- (f) Police Station : SANDUR
- (g) First opening date : 03/07/2007
- (h) Weekly day of rest : SUN
2. Address for : M/s Shree Gavisiddeshwara Minerals
correspondance : 101, Ist Floor, Pride Elite, No-10, Museum Road
Bangalore-560 001
3. (a) Lease Number : KAR0226
- (b) Lease area : 60
- (c) Period of lease : 20
- (d) Date of Expiry : 27/05/2019
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : M/s Shree Gavisiddeshwara Minerals
 101, 1st Floor, Pride
 Elite, No-10 Museum Road,
 Bangalore BANGALORE
 KARNATAKA
 Phone:080-41495660/1/3
 FAX :080-41495664

Owner : Dinesh Kumar Singhi of M/s Shree Gavisiddeshwara M
 101,1st floor, Pride Elite,
 No-10 Museum Road,
 Bangalore BANGALORE
 KARNATAKA
 Phone: 080-41495660
 FAX : 080-41495664

Mining Engineer

Name : Magesh M, Full Time
 Qualification : BE Mining
 Appointment/ : 19/04/2013
 Termination date

Geologist

Name : SANTHOSH REDDY, Full Time
 Qualification : M.Sc. Geology
 Appointment/ : 01/09/2013
 Termination date

Manager

Name : A. Gururaj
 Qualification : Dip. in Mining (FCC-Restricted)
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	23/01/2013
Plan/Scheme of Mining		MS modif under MCR 1960	15/12/2015
		MP review under 17(1) MCR 2016	12/06/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	12 no. of Borehole	NIL	Mining Operations were started late
1b	Exploration over lease area for geological axis 1 or 2	G1 - 2.05 Ha.	NIL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 - 2.05 Ha.		Exploration proposed in future
1e	Balance reserve as on 01/04/20		1.97 million tons	Reserves and resources
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development Proposed :- North block N - 1664345 N - 1664412 E - 674599 E - 674791 South Block N - 1662918 N - 1663046 E - 663045 E - 675507	North block N - 1664345 N - 1664412 E - 674599 E - 674791 South Block N - 1662918 N - 1663046 E - 663045 E - 675507	Dumping of waste is being done in the proposed area
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate Benches proposed for OB & Mineral,	All the benches contain Ore & OB	Overburden-8 no. Mineral - 4 no. Flote working-1 no.
2c	Stripping ratio or ore to OB ratio	1: 0.93	1: 2.12	The Ore body was Deminizing at lower depths So OB handling was high

2d	Quantity of topsoil generation in m3	No proposal	NIL	No generation of Top Soil
2e	Quantity of overburden generation in m3	2.43 lakh	4.75 lakh	The Ore body was Deminizing at lower depths So OB handling was high
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production			
3b	Quantity of ROM mineral production proposed			
3c	Recovery of sailable/usable mineral from ROM production	95% in Reef Ore 73% in Float	95% in Reef Ore 73% in Float	No change
3d	Quantity of mineral reject generation	No proposal	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	NA	
3f	Quantity of sub grade mineral generation.	No proposal	NA	
3g	Grade of sub grade mineral generation	No proposal	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method proposed for segregation from ROM	Processing ROM by dry crushing & screening plant	Screen capacity 100tonnes per hour

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No Beneficiation study carried out	Dry crushing & screening plants
3j	Provision of drilling and blasting in mineral benches	The drilling & blasting only for Hard Formation	The drilling & blasting only for Hard Formations, Use of Hydraulic rock Breaker	Slurry Explosives are Being used for blasting activity
3k	Provision of mining machineries in mineral benches	Yes, Excavators -2 no. Weel loader - 1 no Tippers - 10no.s Drilling Machine - 1 no Compresser -1 no Mobile Crushing Plant 1 no Water tanker - 1 no	Excavators -2 no. Weel loader - 1 no Tippers - 10no.s Drilling Machine - 1 no Compresser -1 no Mobile Crushing Plant 1 no Water tanker - 3 no	Number of water tanker were increased to 3 no.s instead of 1 no.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height - 8m Bench width - 8m Not Less than the height of the Bench	Maintained as per proposal	
3m	Total area covered under excavation/pits	3.73 Ha.	3.73 Ha.	3.73 Ha. area is included in total mining area 16.80 Ha.
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.93	1: 2.12	The Ore body was Deminizing at lower depths So OB handling was high
3o	Total area put in use under different heads at the end of year	Mining - 16.80 Dumping - 12.80 Statutory Building - 0.01 Mineral Stock - 2.65 Road - 5.50 Safety Zone - 4.35 Untouched area - 87.89	Mining - 16.80 Dumping - 12.80 Statutory Building - 0.01 Mineral Stock - 2.65 Road - 5.50 Safety Zone - 4.35 Untouched area - 87.89	

3p	Production of ROM mineral during the last five year period as applicable	2015-16 : 200000 2016-17 : 200000 2019-20: 259095 2020-21: (in tonnes)	2015-16 : 200000 2016-17 : 00 2019-20: 224000 2020-21: (in tonnes)	From 2017-18 to 2018-19 Mining Plan was not prepared Because mine was not operating. In 2019-20 Mining Operations resumed after approval of mining plan, mining operations were started late
3q	General remarks of inspecting officers on method of mining etc.			

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 of OB proposed	Separate OB dump Maintained	No generation of Top Soil and Mineral Rejects.
4b	Location of topsoil, OB and mineral reject dumps	Proposed Location of OB :- North block N - 1664345 N - 1664412 E - 674599 E - 674791 South Block N - 1662918 N - 1663046 E - 663045 E - 675507	North block N - 1664345 N - 1664412 E - 674599 E - 674791 South Block N - 1662918 N - 1663046 E - 663045 E - 675507	
4c	Number of dumps within lease area and outside of lease area	WML - 05(AD - 2 no.s & IAD -3 no.s) OML - 0	WML - 05(AD - 2 no.s & IAD -3 no.s) OML - 0	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps Proposed outside the Ultimate Pit Limit	Dumps are located outside the Ultimate Pit Limit	
4e	Number of active and alive dumps.	Active - 2	Active - 2	

4f	Number of dead dumps.	Dead Dumps- 03	Dead Dumps- 03	
4g	Number of dumps established.	ID 3, Proposed for Stabilization	ID 3, is Being Stabilized.	ID 3, is Stabilized by planting 3000 spices,
4h	Whether Retaining wall or garland drain all along dumps are there.	2 no.s of Retaining Wall and 2 no.s Garland drain teo of the dump Proposed	Not achieved	The mine workings are started late. Proposed for plan period and same will be carried out During this period
4i	Length of Retaining wall or garland drain all along dumps	410 meters lenth Retaining wall 425 meters of Garland Drain	Not achieved	The mine workings are started late. Proposed for plan period and same will be carried out During this period
4j	Number of settling ponds	No proposal	NA	
4k	Specific comments of inspecting officer on waste dump management			

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.	Part back filling proposed	Back filling not carried out	Mineral was not fully Extracted
5b	Area under backfilling of mined out area	1.28 Ha.	Not achieved	Mineral was not fully Extracted
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.		

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).	To be submitted on or before 1st july of every year	PMCP for the year 2019-20 Submitted on 10th July 2020	
6b	Area available for rehabilitation (ha) .	1.28 Ha.	Not achieved	Mineral was not fully Extracted
6c	afforestation done (ha).	0.90 Ha.	Not achieved	The mine workings are started late.
6d	No. of saplings planted during the year	2250	Not achieved	The mine workings are started after monsoon
6e	Cumulative no .of plants	24675	22425	
6f	Any other method of rehabilitation	No proposal	NA	
6g	Cost incurred on watch and care during the year		465500/- towards watch &ward	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	1.28 Ha.	NIL	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Back filling proposed by waste material	NIL	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Back filling proposed	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 in core zone & Buffer Zone	Regular Environmental Monitoring carried out for air, water, Noise & soil in core & buffer zone	Parameters was observed to be 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 with in lease area	Grade wise separation is done with in the lease area	Dry crushing & screening
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical method was proposed for mineral sorting	Mechanical sorting is done	Mobile Crushing & screening plant 100 tph
7c	Different grade of mineral sorted out at mines.	Different Grade proposed Above 45% Fe. To 65% Fe	Lumps & Fines 51% Fe to 60% Fe	Dispatched as per the market requirement
7d	Any beneficiation process at mines	No proposal	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	There is no generation of top soil during plan period	The working with in the broken up area .
8b	Concurrent use or storage of topsoil	No proposal	NIL	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	NIL	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Back filling was proposed 1.28 Ha.	Not achieved	Mineral was not fully Extracted
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)	2250 saplings	Not achieved	The mine workings are started after monsoon
8g	Survival rate	--	--	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed on haul rods to control airborne dust	Regular water sprinkling is done to suppress the dust	Deployed 3 no.s water tankers of 8000 liters capacity each
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	M.R. Submitted up to October 2020 ***** A.R. Submitted up to 2018-19		2019-20 A.R. is Due Because of Financial Audit due, will be submitted soon

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer Mr. Sanjay Kumar Mr. Ishaiah K.	Mining Engineer & Mines Manager were present during the inspection
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining - 16.80 Dumping - 12.80 Statutory Building - 0.01 Mineral Stock - 2.65 Road - 5.50 Safety Zone - 4.35 Untouched area - 87.89	
9d	Scrutiny of Annual return on afforestation	With in ML area 2250	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Rom Opening stock 7010.000 Production - 224000 Closing Stock - 66822.530	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Average sale value for Fines. Bellow 55% Fe - Rs 1130/ton 55% to 58% Fe - Rs 1980/ton 58% to 60% Fe - Rs 1543/ton And For Lumps Bellow 55% Fe Rs 1861/ton 55% to 58% Fe Rs 2550/ton 58% to 60% Fe Rs 2923/ton	

9h	Scrutiny of Annual return on fixed assets		2019-20 Annual returns is due.
9k	Scrutiny of Annual return on mining machineries	Excavators -2 no. Weel loader - 1 no Tippers - 10no.s Drilling Machine - 1 no Compresser -1 no Mobile Crushing Plant 1 no Water tanker - 1 no	

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

Date :

(G C MEENA)

Indian Bureau of Mines