

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

**MCDR INSPECTION REPORT**

**Bangalore regional office**

**Mine file No :** KNT/BLR/FE/160/BNG

**Mine code :** 30KAR03110

- (i) Name of the Inspecting : **S011** ) **K.SRINIVAS**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri M.T. Jagadeesh, Sr.Manager  
Official with  
Designation
- (iv) Date of Inspection : 11/09/2017
- (v) Prev.inspection date : 03/01/2016

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KARADIKOLLA**
- (b) **Registration NO.** : **IBM/197/2011**
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BELLARY
- Village : BAVIHALLI
- Taluka : SANDUR
- Post office : BAVIHALLI
- Pin Code :
- FAX No. : 0832-2521012 (F),
- E-mail : mines@chowgule.co.in
- Phone : 0832-2525000 (O), 888886:
- (f) **Police Station** : SANDUR
- (g) **First opening date** : 31/05/1968
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/s Chowgule & Co. Pvt. Ltd  
# 264, COLLEGE ROAD,  
WARD III,HOSPET, BELLARY, KARNATAKA-583201.
3. (a) **Lease Number** : KAR0170
- (b) **Lease area** : 459.73
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 22/09/1983
4. **Mineral worked** : IRON ORE Main

## 5. Name and Address of the

Lessee : CHOWGULE AND CO LTD  
 Chowgule House, Mormugao  
 Harbour Goa-403 803 SOUTH  
 GOA GOA  
 Phone:0832-2521010  
 FAX :0832-2521011 /12

Owner : V.V.Chowgule, MD of M/s Chowgule & Co. Pvt. Ltd.  
 Chowgule House Mormugao  
 Harbour Goa-403803 SOUTH  
 GOA GOA  
 Phone: 0832-2521010  
 FAX : 0832-2521011 /1

Agent : Sanjay R. Chakraborty  
 C/o Chowgule & Company Pvt.  
 Ltd. Chowgule House,  
 Mormugao Harbour Goa SOUTH  
 GOA GOA  
 Phone: 0832-2521010  
 FAX : 0832-2521011 /1

Mining Engineer  
 Name : B.Sanand,Full Time  
 Qualification : B.E &2nd Class  
 Appointment/ : 09/11/2015  
 Termination date

Geologist  
 Name : Sudhir Y Wakhale,Full Time  
 Qualification : M. Tech (Applied Geology)  
 Appointment/ : 09/06/2014  
 Termination date

Manager  
 Name : PRV Prasad  
 Qualification : DIP.IN.MINING&1st class  
 Appointment/ : 12/11/2015  
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	17/02/1993
Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	05/11/2003
	:	Mining Scheme rule 12 MCDR1988	06/12/2013

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	nil	-
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	-
1e	Balance reserve as on 01/04/20	-	-	The balance reserves as on 01.04.17 2520268.70 t (111) 1042725.00 t (122) 6129647.00 t (222)
1f	General remarks of inspecting officers on geology, exploration etc	-	-	There was no proposals for the previous year (2016-17). However, 26 bore holes of the year 2014-15 have been drilled during last year.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N 1676200 to N 16765500 E 662200 to E 662600	N 1676200 to N 16765500 E 662200 to E 662600	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	No separate benches in Top soil. Total 14 benches in ore and waste.
2c	Stripping ratio or ore to OB ratio	1 : 1.25 (2016-17) 1: 1.66 (2017-18)	1 : 1.53 (2016-17) 1: 1.64 (2017-18)	-
2d	Quantity of topsoil generation in m3	nil	nil	-

2e	Quantity of overburden generation in m3	1,90,000 cu.m (2016-17) 2,52,000 cu.m (2017-18)	2,32960 cu.m (2016-17) 1,51,638 cu.m (2017-18)(upto August, 2017)	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The workings related to the development are being carried out as proposed.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One (Noth Block)	One (Noth Block)	-
3b	Quantity of ROM mineral production proposed	3,80,000 tonnes(2016-17) 3,80,000 tonnes(2017-18)	3,79,938.26 tonnes(2016-17) 2,30,528 tonnes(2017-18)	-
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	Nil	Nil	-
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	-
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	Menchanised	Mechanised	Dry screening and crushing.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	-

3j	Provision of drilling and blasting in mineral benches	Proposed.	Yes		The ore and waste is excavated by excavator and wherever the hard rock gets in the benches , it is broken by Rock Breaker.
3k	Provision of mining machineries in mineral benches	Yes	6 Back Hoe excavators of 0.9 cu.m to 2.3 cu.m Capacity.		-
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	22.30ha	22.30ha		-
3n	Ore to OB ratio for the pit/mine during the year.	1: 1.66	1: 1.64		-
3o	Total area put in use under different heads at the end of year	42.284 ha	42.284 ha		-
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 3,80,000t 2014-15 : 3,80,000t 2015-16: 3,80,000t 2016-17: 3,80,000t 2017-18: 3,80,000t	2013-14: 47978.43t 2014-15 : 379022.72t 2015-16: 379792.92t 2016-17: 379938.26t 2017-18: 230528 t		=
3q	General remarks of inspecting officers on method of mining etc.	-	-		There is no deviation from the method of mining.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	Overburden is dumped separately. No top soil and mineral rejects generated.

4b	Location of topsoil, OB and mineral reject dumps	N 1676200 to N 1676500 E 662200 to E 662600	N 1676200 to N 1676500 E 662200 to E 662600	-
4c	Number of dumps within lease area and outside of lease area	4 dumps within the lease area.	4 dumps within the lease area.	-
4e	Number of active and alive dumps.	One	One	-
4f	Number of dead dumps.	Three	Three	-
4g	Number of dumps established.	Three	Three	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	-
4i	Length of Retaining wall or garland drain all along dumps	1300m	1300m	-
4j	Number of settling ponds	Three	Three	-
4k	Specific comments of inspecting officer on waste dump management	-	-	The waste dump management is being carried out as proposed.

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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.	-	-	There is no proposal for backfilling during the period of proposals.

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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).	-	Submitted	-
6b	Area available for rehabilitation (ha) .	No proposal	Nil	-
6c	afforestation done (ha).	No proposal	nil	-
6d	No. of saplings planted during the year	No proposal	nil	-
6e	Cumulative no .of plants	No proposal	nil	-
6f	Any other method of rehabilitation	No proposal	nil	-
6g	Cost incurred on watch and care during the year	No proposal	nil	-
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	-

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Yes	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Screening and crushing facility is available.
7c	Different grade of mineral sorted out at mines.	Fines : Fe % 58-60, 60-62,62-65 Lump: Fe % 58-60, 60-62,62-65 & 65+	Fines : Fe % 58-60, 60-62,62-65 Lump: Fe % 58-60, 60-62,62-65 & 65+	-
7d	Any beneficiation process at mines .	Nil	Nil	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Subgrade ore, if any is being blended with high grade ore to meet the buyer's specification.

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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)	Nil	Nil	-
8b	Concurrent use or storage of topsoil	Nil	Nil	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	-
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)	Nil	Nil	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3000 nos.	2557 nos.	-
8g	Survival rate	100%	80%	-
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	The aesthetic beauty in and around mines area is found to be good.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	MR submitted upto August, 2017. AR submitted for the year 2016-17.	-	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given	-	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given.	-	-
9d	Scrutiny of Annual return on afforestation	Details given.	-	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given.	-	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given.	-	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given.	-	-
9h	Scrutiny of Annual return on fixed assets	Details given.	-	-
9k	Scrutiny of Annual return on mining machineries	Details given.	-	-

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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 31(4)	26/10/2017	26/12/2017				

**Date :**

**(K.SRINIVAS)**

Indian Bureau of Mines