

**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 : **256**) **PUKHRAJ NENIVAL**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri P.R. Venkatesh Prasad, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 03/01/2016
- (v) Prev.inspection date : 20/01/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KARADIKOLLA**
- (b) **Registration NO.** : **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. : 08394 - 222998
E-mail : mines@chowgule.co.in
Phone : 08394-222998, 8888862585
- (f) Police Station : SANDUR
- (g) First opening date : 31/05/1968
- (h) Weekly day of rest : SUN
2. Address for : M/s Chowgule & Co. Pvt. Ltd
correspondance : Rajapur Skies, Door No-187, 3rd Floor, Basaveshw
Badavane, 16th Ward, College Road, Hospet-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	26 no.s	nil	Violation has been pointed out.
1b	Exploration over lease area for geological axis 1 or 2	Geological axis 1	-	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Rock Tech Enterprises, Hospet. Rs. 39,00,000/- + Analysis charges.	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	20 Ha	nil	
1e	Balance reserve as on 01/04/20		3280000 Tons under 111, 1042725 Tons under 122 & 6129647 Tons under 222	
1f	General remarks of inspecting officers on geology, exploration etc	-	-	No exploration was carried out , thus the violation has been pointed out.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Location of Over Burden stacked: N 1676243 to N 1676400 & E 662234 to E662529.	Location of Over Burden stacked: N 1676243 to N 1676400 & E 662234 to E662529.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	-	No benches in Top soil. Total 9 Benches in ore & Waste	-
2c	Stripping ratio or ore to OB ratio	1: 1.13	1: 1.09	

2d	Quantity of topsoil generation in m3	-	-	Top soil generated in 2014-15. Quantity is 13,950 Tons (7971 m3)
2e	Quantity of overburden generation in m3	2,07,500 m ³	1,97,452 m ³	Upto December, 2015.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Working satisfactorily.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One (North Block)	One (North Block)	
3b	Quantity of ROM mineral production proposed	3,80,000 tons	2,97,671 tons	Upto December, 2015.
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	Mechanised	Mechanised	Dry Screening & Crushing

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	
3j	Provision of drilling and blasting in mineral benches	Proposed	No drilling and Blasting was conducted.	The ore & Waste is excavating by excavator and wherever the hard toe gets in the benches, it is breaking by Rock Breaker.
3k	Provision of mining machineries in mineral benches	Yes	Yes	
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	20.373	20.373	
3n	Ore to OB ratio for the pit/mine during the year.	1: 1.13	1: 1.09	

3o	Total area put in use under different heads at the end of year	1) Covered under current workings - 20.373 2) Reclaimed & Rehabilitated - 3) Used for waste disposal building, etc- 6.816 4) Occupied by plant , building, etc- 5.030 5) Afforestation 6) Bi-diversity 3.68	1) Covered under current workings - 20.373 2) Reclaimed & Rehabilitated - 3) Used for waste disposal - 6.816 4) Occupied by plant , building, etc- 5.030 5) Afforestation 6) Bi-diversity 3.68	- - - - - -
3p	Production of ROM mineral during the last five year period as applicable	2013-14 = 3,80,000 2014-15 = 3,80,000 2015-16 = 3,80,000	2013-14 47,978.43 2014-15 3,79,022 2015-16 2,97,671	Upto December, 2015.
3q	General remarks of inspecting officers on method of mining etc.	-	-	Working satisfactorily.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Nil	OB is dumped at earmarked are at Central Block.	No top soil & Mineral rejects.

4b	Location of topsoil, OB and mineral reject dumps	Location of Over Burden stacked: N 1676243 to N 1676400 & E 662234 to E662529.	Location of Over Burden stacked: N 1676243 to N 1676400 & E 662234 to E662529.	No top soil & Mineral rejects
4c	Number of dumps within lease area and outside of lease area	Within lease - 4 no.s Outside lease -1 no. (EID-4)	Within lease - 4 no.s Outside lease -1 no. (EID-4)	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	As per proposal	Outside the ultimate pit.	
4e	Number of active and alive dumps.	Active dump - 1 no. (AD-5) & Alive - nil	Active dump - 1 no. (AD-5) & Alive - nil	
4f	Number of dead dumps.	Within lease - In active dumps - 3no.s ID-1, ID-2 & ID-3 Outside lease - In active dump - 1 no. (EID-4)	Within lease - In active dumps - 3no.s ID-1, ID-2 & ID-3 Outside lease - In active dump - 1 no. (EID-4)	
4g	Number of dumps established.	All Inactive dumps are stabilized (04 no.s)	All Inactive dumps are stabilized (04 no.s)	
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	Toe wall 1300 m at AD-5. Garland Drainage 1300 m at AD-5	Toe wall 620 m at AD-5. Garland Drainage 420 m at AD-5	Violation has been pointed out.
4j	Number of settling ponds	Silt Settling ponds - 3 no.s	SST completed - 2 no.s & 1 no. is under construction.	

4k	Specific comments of inspecting officer on waste dump management	-	-	Violations are pointed out for not constructing R&R measures as proposed.
----	--	---	---	---

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.	NA	NA	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed and rehabilitated	NA	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	

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).	Yes	Submitted on 19.06.2015	
6b	Area available for rehabilitation (ha) .	Not proposed	Nil	
6c	afforestation done (ha).	Not proposed	nil	

6d	No. of saplings planted during the year	Not proposed	nil
6e	Cumulative no .of plants	Not proposed	nil
6f	Any other method of rehabilitation	Not proposed	nil
6g	Cost incurred on watch and care during the year	Not proposed	nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	As per the proposal we are conducting environment monitoring.	Conducting environment monitoring: 8 locations at core zone & 4 locations at buffer zone (nearby villages). The seasons are in Winter, Summer, Monsoon & post monsoon.	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Environment monitoring data are not maintained in bound paged register, hence the violation has been pointed out.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Yes	Screening & crushing facility is available
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized	Screening & crushing facility is available
7c	Different grade of mineral sorted out at mines.	Fines = 58-60, 60-62, 62-65 Lumps=58-60, 60-62, 62-65 & 65+	Fines = 58-60, 60-62, 62-65 Lumps=58-60, 60-62, 62-65 & 65+	Screening & crushing facility is available
7d	Any beneficiation process at mines	Nil	Nil	.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	working satisfactorily.
----	--	---	---	----------------------------

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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	At present only overburden is stacked Separately.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	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	1905 nos	
8g	Survival rate	80%	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	-	-	Working satisfactorily, the boundary pillars are intact with requisite details.

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 November '15 A.R. Submitted for 2014-15		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Appointed as per the Rule	Mining Engineer - Mr. B. Sananda Geologist - Mr. Sudhir Y. Wakhale Manager - Mr. P.R.V Prasad	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details Given	Current workings - 20.373 Reclaimed & Rehabilitated - Used for waste disposal - 6.816 Occupied by plant , building -5.03 Afforsrtation - Bi-diversity - 3.68	
9d	Scrutiny of Annual return on afforestation	3000 no.s	1905 no.s	Upto December, 2015.
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	YES	ROM = 2,59,499 tons (including old ROM) Lumps = 53,297 tons Fines = 1,14,558 tons	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale through e-auction	Average Sale value in Nov 2015 Lumps - Rs. 1973 Fines - Rs. 986
9h	Scrutiny of Annual return on fixed assets	Yes	Amount for capital structure, depreciation and overhead are found to erroneous. Violation is pointed out.
9k	Scrutiny of Annual return on mining machineries	Yes	Excavator - 1 no. (2.3 m3) Excavator - 3 no.s (1.6 m3) Excavator - 1 no. (0.90 m3) Wheel Loader -1 no. (2.75 m3) Dozer - 1no. (183 HP) Trucks - 10 no.s (16 Ton cap)

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
Rule 13(1)	03/01/2016		Rule 13(1)	03/01/2016	
Rule 21(1)	03/01/2016		Rule 21(1)	03/01/2016	
Rule 42(1)(b)(i)	03/01/2016		Rule 42(1)(b)(i)	03/01/2016	
Rule 45(1)	03/01/2016		Rule 45(1)	03/01/2016	
Rule 63	03/01/2016		Rule 63	03/01/2016	

Date :

(PUKHRAJ NENIVAL)

Indian Bureau of Mines