

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/Fe-1/GOA

Mine code : 30KAR05002

- (i) Name of the Inspecting : **K02**) **KALMATA M.K.**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : D.Somaiah, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 24/11/2017
- (v) Prev.inspection date : 02/12/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HIREMAGI RAMTHAL M.L.465**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : KARNATAKA
District : BAGALKOT
Village : HIREMAGI-RAMTHAL
Taluka : HUNAGUND
Post office : HIREMAGI
Pin Code : 587112
FAX No. : 08351-280125
E-mail : hrmines@doddanavarbrothers
Phone : 08351-287740/280125
- (f) Police Station :
- (g) First opening date : 01/07/1980
- (h) Weekly day of rest : SUN
2. Address for : Doddannavar Brothers
correspondance Corporate House,Opp Hotel Ksemainn,
Near 3rd Railway Gate, Khanapur Road, Belgaum
3. (a) Lease Number : KAR0264
(b) Lease area : 39.66
(c) Period of lease : 30
(d) Date of Expiry : 28/02/1990
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : DODDANAVAR BROTHERS
 Corporate House, Opp Hotel
 Ksemainn Near 3rd Railway
 Gate, Khanapur Road,
 BELGAUM KARNATAKA
 Phone: 0831-2466727
 FAX : 0831-2403401

Owner : PUSHPADANT PARISAPPA DODDANNAWAR
 Corporate House, Opp Hotel
 Ksemainn Near 3rd Railway
 Gate, Khanapur Road BELGAUM
 KARNATAKA
 Phone: 0831-2466727
 FAX : 0831-2403401

Agent : RACHAPPA MALLAPPA SARADAGI
 General Manager (Mines)
 Doddanavar Brothers At-
 Hiremagi, Tq-Hungund
 BAGALKOT KARNATAKA
 Phone: +919845739350, 08351-287740
 FAX : 08351-280125

Manager
 Name : RACHAPPA
 Qualification : B.E. Mining
 Appointment/ : 01/04/1997 01/12/2003
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	27/05/2002
Plan/Scheme of Mining		Modif. approved Mining Scheme	18/12/2003
		Modif. approved Mining Scheme	03/12/2004
		Mining Scheme rule 12 MCDR1988	05/02/2007
		Renewal under rule 24 MCR1960	26/10/2010
		Mining Scheme rule 12 MCDR1988	23/04/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was a proposal to drill 5 core boreholes to a total depth of 201 mtrs in the year 2015-16 and 5 core boreholes to a depth of 269 mtr in the year 2016-17.	Exploration was not carried out as per the proposal.	Violation was pointed out for the same.
1b	Exploration over lease area for geological axis 1 or 2	In the approved scheme of mining entire area was proposed to explore under G-1 level in the plan period upto 2019-20. About 7 ha was proposed upto 2016-17.	Exploration was not carried out as per the proposal and violation is pointed out for the same.	
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	About 7 ha was proposed upto 2016-17.	Nil	About 14 ha is proposed in the plan period.
1e	Balance reserve as on 01/04/20		Iron ore reserves in million tons Reserves- 3.167 Remaining resources- 3.75	
1f	General remarks of inspecting officers on geology, exploration etc			The exploration was not carried out as per the proposal and violation is pointed out for the same.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	There was a proposal to work between co-ordinates- N-1777280 to N-1777500 and E-596800 to E-597060 and RL from 616 to 604 in the year 2016-17.	Working has been not carriedout as per the proposal and violation was pointedout for the same.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No separate OB and Top soil benches were proposed.	Benches were made in ore only and no separate benches were proposed in topsoil and OB.	
2c	Stripping ratio or ore to OB ratio	1:0.35 in the year 2016-17	1:0.34	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	39500 in the year 2016-17	35322 in the year 2016-17	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		working has been not carriedout as per the proposal and violation is pointedout for the same.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	About 259278.3 tons of Iron ore and 36485.12 tons of BHQ was proposed in the year 2016-17.	252306 tons in the year 2016-17	
3c	Recovery of sailable/usable mineral from ROM production	90% in iron ore and 80% in BHQ	NA	

3d	Quantity of mineral reject generation	25928 tons from iron ore in the year 2016-17.	10000 tons.	
3e	Grade of mineral rejects generation and threshold value declared.		Fe +38%	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical	Mechanical	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.		A feed sample assaying 35.17%Fe and 47.35% Silica was subjected to gravity and magnetic separation and reverse floatation. Gravity separation after grinding and re-grinding)-65# and -100#) produced a concentrate of 60.77%Fe and 11.18% SiO ₂ with iron recovery of 44.5%. Reverse floatation of quartz at a grind of -100# using cocoamine acetate as collector produced a non float fraction assaying 51.25% Fe with Fe recovery of 56.8%.	
3j	Provision of drilling and blasting in mineral benches		Drilling and blasting is conducting as per the proposal.	
3k	Provision of mining machineries in mineral benches	3 excavators , four wheel loaders and 15 dumpers were proposed.	02 excavators and two wheel loaders and seven dumpers were using for mining.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6mtr height benches were proposed	Benches were not maintained as per the proposal.	Violation is pointedout for the same.

3m	Total area covered under excavation/pits		24.00ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.35	1:0.34	
3o	Total area put in use under different heads at the end of year		Area under mining-24 ha, waste disposal-9.1ha, infrastructure-1.7ha	
3p	Production of ROM mineral during the last five year period as applicable	2016-17 295763 tons 2015-16 300000 tons 2014-15 to2012-13 300000 ton/annum	2016-17 252306 tons 2015-16 to 2012-13 no production	from mar-2010 onwards the mine was not in operation due to want of forest clearance. Mine was reopened in 2016 only.
3q	General remarks of inspecting officers on method of mining etc.		The working has been not carried out as per the proposal. Benches were not developed as per the proposal and violation is pointed out for the same.	

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Dumping OB and waste was proposed separately.	Dumping was not made as per the proposal.	Violation is pointed out for not dumping as per the proposal
4b	Location of topsoil, OB and mineral reject dumps	Dumping of waste was proposed in the south-east corner near BP-H of the lease and mineral reject in the northern side of the lease area.	dumping was not made as per the proposal. Dumping was made near BP-G.	
4c	Number of dumps within lease area and outside of lease area	One	One	Total three dumps are available within the lease area. All three dumps are partially outside the lease area.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL
4e	Number of active and alive dumps.	one	one
4f	Number of dead dumps.	Two	Two
4g	Number of dumps established.		Three
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall is proposed 150m/year	Retaining wall is constructed around the old dump
4i	Length of Retaining wall or garland drain all along dumps	150m/ year.	About 200 to 300 mtr retaining wall is constructed around old dump.
4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management		Dumping was not amde as per the proposal and terraces were not maintained properly.

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.		Mineral is not extracted fully upto proved depth.	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	

5e General remarks of inspecting officers on backfilling and reclamation etc. No backfilling was proposed in the present plan period.

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).	1st july of every year	Yearly report on PMCP wqas not submitted so violation is pointed out for the same.	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	1.00 ha in the year 2016-17	1.5ha	
6d	No. of saplings planted during the year	400	1500	
6e	Cumulative no .of plants		approximately 4000 in the plan period	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)		Lessee is regularly monitoring air, water and sound all parameters are within permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Since the ore is not fully extracted no reclamation was proposed in the present plan period. Lessee was not submitted yearly report on PMCP for the year 2015-16 and 2016-17, so violation is pointed out for the same.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		About 68324 tons of lups having Fe% below 55 and about 24977 tons of fines having Fe% below 55 is despatched from mine in the year 2016-17.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.		Iron ore +45 to 55% Fe and 55 to 60%Fe.	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Lessee is erected washing plant of 120tph capacity outside the lease area where ore having below 55% Fe is feeding for upgradation.	

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)		OB is dumped separately and mineral reject is blended with highgrade and utilized.	
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)		1500 saplings were planted in the year 2016-17.
8g	Survival rate		60 to 70%
8h	Water sprinkling on roads to control airborne dust		Lessee is using water tanker for dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		The area is degraded by mining and benches were not systematically developed. Good plantation is made within the office premises which is outside the lease area.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Lessee is regularly submitting montly and annual returns.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer is shown as Mr amit Ghooli and Geologist only part time is mentioned.	Lessee has not appointed Geologist and experiance of mining engineer is not as per MCDR 2017.	Violation is pointedout for the same.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining- 24.30Ha, Dumping- 9.10ha, and Infrastructure -1.71Ha	The details given under land use pattern are almost matching.	

9d	Scrutiny of Annual return on afforestation	2500	Approximately 1500 plants were planted.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	10000 tons	No mineral reject stock was observed during inspection.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Lumpy ore stock- 25562 tons and fines stock-151747.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Exmine price for lumpy ore is shown as Rs-1175/ton and fines Rs-975/tons and cost of production-Rs 775/ton	
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset is shown as Rs-6575160	
9k	Scrutiny of Annual return on mining machineries	Excavators-02, wheel loaders-02 and dumpers-08	

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)	11/12/2017	10/04/2018	MCDR17	Rule 26(2)	11/12/2017	
MCDR17	Rule 26(2)	11/12/2017		MCDR17	Rule 45(5)	11/12/2017	
MCDR17	Rule 27(1)	11/12/2017	10/04/2018	MCDR17	Rule 55(1)	11/12/2017	
MCDR17	Rule 45(5)(c)	11/12/2017					
MCDR17	Rule 55(1)(3)	11/12/2017					

Date :

(KALMATA M.K.)

Indian Bureau of Mines