### INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

#### MCDR inspection REPORT

### Bangalore regional office

Mine file No : KNT/BLR/FE/414/BNG/VOL-I Mine code: 30KAR03138

Name of the Inspecting : P005 ) C.PARAMESHWARAN

Officer and ID No.

(ii) Designation : Deputy Controller Mines

(iii) Accompaning mine : Shri. S. Mandal. Geologist.

Official with Designation

(iv) Date of Inspection : 27/02/2018

Prev.inspection date (v)

#### PART-I : GENERAL INFORMATION

(a) Mine Name : RAMANMALAI

: IBM/178/2011 (b) Registration NO.

: A Other than Fully Mech. (C) Category

(d) Type of Working Opencast

Postal address (e)

> State : KARNATAKA District BELLARY Village RAMGAD Taluka SANDUR Post office : SANDUR Pin Code : 583119 FAX No. : NIL

E-mail : vescosdr@yahoo.com

Phone : 9611786655

(f) Police Station : SANDUR

First opening date : 19/08/2002 (g)

Weekly day of rest (h) : SUN

Address for :

correspondance

3. : KAR0344 (a) Lease Number (b) Lease area : 18.62 Period of lease : 20 (C)

(d) Date of Expiry : 18/10/2012

4. Mineral worked : IRON ORE Main 5. Name and Address of the

Lessee : VEERABHADRAPPA SANGAPPA & COMPANY

# 2/138, BELLARY ROAD, HOSPET, BELLARY KARNATAKA

Phone: FAX:

Owner : VEERABHADRAPPA SANGAPPA & COMPANY

NO.2/138, BELLARY ROAD, SANDUR, BELLARY KARNATAKA

Phone: FAX:

6. Date of approval of Mining Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals.	nil	nil
1b	Exploration over lease area for geological axis 1 or 2	G1+G2=42.59 ha.	same as above till 2014.	same as reported as G1=not given separately. G2=not given separetely.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	not reported	not reported	It is required to be submitted by the company.
1d	Balance area to be explored to bring Geological axis in 1 or 2	no proposals.	7.61 ha area is used for waste dumping in the nor mineralized.	
1e	Balance reserve as on 01/04/20	.Under G1=34818477t & G2=3869389t	the reserves & resources is as above.	yes thereserves & resources may change.
1f	General remarks of inspecting officers on geology, exploration etc	No proposals in the present document.	No exploration during this document, but the lessee already undertaken,	Exploraation before 2014 completed by the lessee.

# Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	PROPOSED	AS per the proposed location.	yes only in the proposed locations, execept waste developments at middle of the pit.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	11 ore	Yes 2 OB benches & 11 ore benches in the pit.	yes followed accordingly.
2c	Stripping ratio or ore to OB ratio	1:0.50	1:0.15	reduced from the proposals.
2d	Quantity of topsoil generation in m3	.nil	nil	small quantity generated has been used for plantations purposes.

2e	Quantity of overburden generation in m3	172319m3.	61611m3	reduced from the proposed quantity.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	proposed	yes actual is slightly varying at the bottom of the pit, which was not proposed.	slight changes in the proposals.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit only	One only	yes one is operation.
3b	Quantity of ROM mineral production proposed	0.844MMT.	0.844MMT	same as above.
3с	Recovery of sailable/usable mineral from ROM production	95%	98%	Increased by 3%, owing increase in between section R4 to R8.
3d	Quantity of mineral reject generation	32292t	5000t of +35 to -45%Fe, which are considered under MR.	At present the above grades materials are kept stacked for future use.
3e	Grade of mineral rejects generation and threshold value declared.	+3545%Fe.	Same as above.	yes as above
3f	Quantity of sub grade mineral generation.	nil	nil	nil
3g	Grade of sub grade mineral generation	nil	nil	nil
3h	Manual / Mechanised method adopted for segregating from ROM	mechanized.	mechanized.	yes same.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	nil	nil	nil

3ј	Provision of drilling and blasting in mineral benches	yes given	yes machines were used as applicable in the mine.	used as per the requirements.
3k	Provision of mining machineries in mineral benches	yes given	details furnished in the annual returns.	given all the details.
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	height 7 to 7.5m and the width 8m	yes as proposed things are made in the mine workings.	appropriate.
3m	Total area covered under excavation/pits	26.470 ha.	26.470 ha	as above.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.51.	1:0.15	varied from the proposals, which is possible.
30	Total area put in use under different heads at the end of year	Pit =26.470, R/R given is wrong, which should come under dumping area i.e. 0.392 ha. waste dump=4.350, building, installation etc=1.270 & others =20.678 ha.	violation issued to rectify the R & r area to dump.	Rest of the things are ok.
3p	Production of ROM mineral during the last five year period as applicable	2011-12=nil ,2012- 13=0.59MT, 2013- 14=0.59MT, 2015- 16=0.59MT, 2016-17=1.10MT	2011-12=nil ,2012- 13=0.288MT, 2013- 14=0.588MT, 2015- 16=0.59MT, 2016- 17=0.844MT	A per the annual returns.
3q	General remarks of inspecting officers on method of mining etc.	Proposed in approved document for systematic exploitation.	work is carrying out as per the proposals, but some place it is out of proposals.	violation issued as per the field observation.

Solid Waste Management - Dumping:

Sl.No. Item Propasals Actual work Remarks	Sl.No.	Item	Propasals	Actual work	Remarks	
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	yes proposed .	proposed is being carried out in the mine.	yes it is being followed.
4b	Location of topsoil, OB and mineral reject dumps	N-1668650- 1669050 E-659550- 659905	N-1668650-1669050 E-659550-659905	same as proposed.
4c	Number of dumps within lease area and outside of lease area	one within the ML area	one within the ML area	same as above.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within the UPL.	within the UPL.	yes within the UPL.
4e	Number of active and alive dumps.		one only active.	one active only.
4f	Number of dead dumps.	nIL	nIL	nIL
<b>4</b> g	Number of dumps established.	None	nil	nil
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed	yes provided.	yes provided.
4i	Length of Retaining wall or garland drain all along dumps	75m	1053m retaining wall & Garland drain is 387m	it is reported as on date completed.
4j	Number of settling ponds	No proposals	nil	3 nos. of setttling pond constructed.
4k	Specific comments of inspecting officer on waste dump management	present.	carrying out the work as per the proposals.	work is satisfatory.

# 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 proposals.	nil	nil

5b	Area under backfilling of mined out area	nil	nil	nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	nil	nil	nil
5d	Total area fully reclaimed and rehabilitated	No land matured.	nil	nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	no proposals.	nil	no area is matured as such for the above works.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	yes submitted foe the year 2016-17	nil	nil
6b	Area available for rehabilitation (ha) .	nil	nil	nil
6c	afforestation done (ha).	nil	nil	nil
6d	No. of saplings planted during the year	nil	nil	nil
бе	Cumulative no .of plants	nil	nil	nil
6f	Any other method of rehabilitation	nil	nil	Nil
6g	Cost incurred on watch and care during the year	nil	nil	ni;
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	nil	nil	nil

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	nil	nil	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	nil	nil	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	nil	nil	nil
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	nil	nil	nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	nil	nil	nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.32 ha	0.32 ha	yes as above
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Through plantation	same as above	Same as above.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment report submitted.	datas are found to be within the limit.	Yes core and buffer zone datas are furnished.

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	Yes proposed.	carrying out sorting and sizing.	Yes carrying out mineral dispatch after sorting and sizing.
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	mechanical means.	mechanical means only sorting and dispatch done.	yes mechanical means.
7c	Different grade of mineral sorted out at mines.	yes proposed for different grades.	+10mm to -40mm 62-63%Fe, -10mm of Fe 60-62%Fe respectively.	Yes as above
7d	Any beneficiation process at mines .	No beneficiation at mines proposed.	dry process screening & sizing method only available.	yes only dry process.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	proposed for systematic method of conservation of minerals.	yes systematically workings are being carried out and continued.	Mine is working systematically.

### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposals.	nil	small quantity generated and are used for the plantations.
8b	Concurrent use or storage of topsoil	no proposals.	nil	nil

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes separate waste is proposed for dumping and not others.	yes only waste is developed and stacked.	only waste is generated.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	no proposals.	not matued for any such activities.	yes no such work is being carried in the ML area.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	no proposals.	nil	nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 nos.	805nos.	regular maintenance is being carried out in the mine.
8g	Survival rate	85%.	85%	may be between 70-80%.
8h	Water sprinkling on roads to control airborne dust	yes proposed.	Yes within the ML area the dust suppression is being done.	yes it is being done in the ML area for dust suppression and for the growth of the trees and the plantations.
8i 	General remarks of inspecting officer on aesthetic beauty in and around mines area	yes proposed	Environment within the ML area is being maintained well.	yes it is maintained.

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted the monthly & the annual returns for the year 2016-17.	submitted to the satisfaction.	Yes satisfaction.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	manager is S/Shri Nandakumar, Mining engineer is Imran Khan, & Geologist is Shanmukhappa Mandal.	Present during the inspection.	yes present during the inspection of the mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		indicated for 0.392 ha is not correct, this needs to be under waste dump area.	other things are ok.
9d	Scrutiny of Annual return on afforestation	nil & outside	within the ML it is comes under forest, hence only outside ML area plantations undertaken.	yes did only in outside ML area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		As reported, possibly may vary little.	As above.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	-	Not appriate to report on dump working as 1575t from dump working OS & CS.	the dump working stock need to be reconciled & update.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	rs. 951/t, ex-	the prevailing rates are given as per the grade & the quality are found to be appropriate.	Yes as prevalent in the e-auction.
9h	Scrutiny of Annual return on fixed assets	the vale of fixed assets is Rs. 31893893 on mine, beneficiation, workshop & water installation etc. depreciation on fixed assets is Rs. 5696509.	reported is found to be correct.	yes correct to the available assets.
9k	Scrutiny of Annual return on mining machineries		Used machineries are as proposed.	proposed method of working and the machineries are as per the approved document.

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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed Show couse position

Violation observed			Show couse position	
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on Compliance on

### Date :

(C.PARAMESHWARAN)

Indian Bureau of Mines