

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

**MCDR INSPECTION REPORT**

**Bangalore regional office**

**Mine file No :** KNT/BLR/FE/394/BNG

**Mine code :** 30KAR03136

- (i) Name of the Inspecting : **P005** ) **C.PARAMESHWARAN**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Shivananda Reddy, Mines manager.  
Official with  
Designation
- (iv) Date of Inspection : 20/10/2015
- (v) Prev.inspection date : 20/12/2014

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RAMGAD(ML 1715)**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : KARNATAKA  
District : BELLARY  
Village : DHARAMPUR  
Taluka : SANDUR  
Post office :  
Pin Code :  
FAX No. : 08395 - 260366  
E-mail : vnk2543@gmail.com  
Phone : 08395 - 260366
- (f) Police Station : Sandur
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : SRI.V.N.K.MENON,  
correspondance NO.6, KHB COLONY,  
SANDUR - 583 119.
3. (a) Lease Number : KAR0255  
(b) Lease area : 1.62  
(c) Period of lease : 10  
(d) Date of Expiry : 31/12/1991
4. Mineral worked : IRON ORE Main

## 5. Name and Address of the

Lessee : V.N.K.MENON  
 16,K.H.B.COLONY SANDUR  
 BELLARY KARNATAKA  
 Phone:  
 FAX :

Owner : V.N.K.MENON  
 CONTRACTOR, SANDUR,  
 BELLARY, BELLARY KARNATAKA  
 Phone:  
 FAX :

## Mining Engineer

Name : IMRAN SHAIK,Full Time  
 Qualification : BE MINING  
 Appointment/ :  
 Termination date

## Geologist

Name : S.MANDAL,Full Time  
 Qualification : M.SC(MINERAL EXPLORATION)  
 Appointment/ :  
 Termination date

## Manager

Name : SURESH MANI  
 Qualification : FCC  
 Appointment/ :  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	28/02/1995
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	14/05/2013
		MS modif under MCR 1960	14/10/2014

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No back log.	nil	nil
1b	Exploration over lease area for geological axis 1 or 2		20 bore holes drilled within the ML area.	Yes, during the inspection of the mine, the drilled holes could be observed.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	yes proposed.	expenditure was Rs. 27.14 lakhs., by the department itself.	During the fields visit, the work was found to be satisfactory.
1d	Balance area to be explored to bring Geological axis in 1 or 2	nil	nil	complete area has been explored.
1e	Balance reserve as on 01/04/20	nil	presently it is 2058005 tonnes.	Small area, the e-autioning should be regular to clear the materials, so that fresh area is available for further workings. Other wise, the work gets hampered.
1f	General remarks of inspecting officers on geology, exploration etc	Yes lessee given proposal to undertake the exploration.	small area, lessee completed the proposals & waiting for the stacks to go out for further workings.	Space constrains is very much.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	yes proposed in the middle of the ML area.	yes the working was seen in the middle, but on the day of inspection, no workings, since the lessee already achived the targetted production.	yes the work is hampered due to CEC limitations & there is no place to work.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes, proposals made in the approved documents.	yes work was done only as per the approved documents.	work was found satisfactory.

2c	Stripping ratio or ore to OB ratio	1:0.18	1:0.17	satisfactory.
2d	Quantity of topsoil generation in m3	nil	nil	nil
2e	Quantity of overburden generation in m3	6384 m3.	3363m3.	within the proposed limit.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	yes proposed for systematic & scientific way.	yes, the work is carried out as per the proposals.	very small mining operation in small patch and found satisfactory.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one only	one number	yes one only.
3b	Quantity of ROM mineral production proposed	130000t	43000t	due to low sale/ fall in the market price.
3c	Recovery of sailable/usable mineral from ROM production	130000t	43000t	Cec restriction, not to cross the production capacity, however, from IBM, there is approval for 1.30 lakhs.
3d	Quantity of mineral reject generation	laterite-980t & BHQ-9450t	Nil	Nil, whatever extracted re used.
3e	Grade of mineral rejects generation and threshold value declared.	nil	nil	nil
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	mechanical method	mechanical	mechanical.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	nil	nil	nil
3j	Provision of drilling and blasting in mineral benches	yes drilling provision given using deep hole blasting.	Yes, at times , majority with the excvators itself, production is achived due to soft strata.	yes, due to soft strata, without the drilling & blasting, production was carried out.
3k	Provision of mining machineries in mineral benches	Yes, excavators were proposed for excavating & loading.	yes, it is deployed for mining operations.	yes it is being followed.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	7m height & 11m width	yes same is followed.	yes it was observed.
3m	Total area covered under excavation/pits	4.00 ha	4.00 ha only	same as above.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.108	1: 0.17	slight difference.
3o	Total area put in use under different heads at the end of year	10.30 ha	10.30 ha	within the ML area limit.
3p	Production of ROM mineral during the last five year period as applicable	2010-11 to 2014- 15=773000t	2010-11 to 2014- 15=547546t	little difference to the targets.
3q	General remarks of inspecting officers on method of mining etc.	yes proposals drawn as per the approved documents.	since the ML workings are very small the workings are carried out systematically.	The CEC restriction, mining work s being carried out in small scale.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes proposal made for separate stacking in the area., No top soil, OB-7400t & lateriate-980t & BHQ-	No top soil, OB-7400t & mineral -nil.	as above.
4b	Location of topsoil, OB and mineral reject dumps	N1666350 to N166470 & E662635 to E662720.	Same ocation as proposed.	yes it was observed in the same area.
4c	Number of dumps within lease area and outside of lease area	one	one	one only.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed partly outside as temporary.	almost within the ML area.	partly in the ML area.
4e	Number of active and alive dumps.	one	one only	one only
4f	Number of dead dumps.	nil	nil	nil
4g	Number of dumps established.	nil	nil	nil
4h	Whether Retaining wall or garland drain all along dumps are there.	yes provided.	yes provided along the waste dumps.	along the existing waste dumps.
4i	Length of Retaining wall or garland drain all along dumps	RW1-137, RW2=260M, GD1=150 & DG2=160M	RW1-188, RW2=260M, GD1=225 & DG2=160M	AS ABOVE.
4j	Number of settling ponds	1 NOS.	SST1=600M3 & SST=400 M3.	YES SETTLING TANK HAS BEEN CONSTRUCTED.
4k	Specific comments of inspecting officer on waste dump management	Yes proposal made in the R & R plan & in the approved document.	it is being done in the ML area.	satisfactory.

#### Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	nil	nil	nil, no area is matured or exhausted.
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	nil	nil	nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	no area is exhausted from the mineralization , hence no scope for back filling.	nil	nil

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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).	To submit the PMCP under rule 23E2	not submitted.	nil
6b	Area available for rehabilitation (ha) .	nil	nil	nil
6c	afforestation done (ha).	0.51 ha	0.51 ha	nil to comment.
6d	No. of saplings planted during the year	1710 nos.	700 nos.	nil.
6e	Cumulative no .of plants	41200 nos.	41200 nos.	nil.
6f	Any other method of rehabilitation	no proposal.	nil	nil

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6g	Cost incurred on watch and care during the year	nil	272380 Rs.	nil
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)Afforestation on on backfilled area	nil	nil	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	nil	nil	nil
6l	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)	nil	nil	nil

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	nil	nil	nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	nil	nil	nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	small area, no scope for PMCP work.	nil	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	43000t	30999.97t fines +12000 lumps	maintained within the limit.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mech.	mech	same.
7c	Different grade of mineral sorted out at mines.	Fines & lumps.	Fines = 62-65%fe & lumps= 62-65%fe.	as indicated above materials were sorted.
7d	Any beneficiation process at mines	no beneficiation.	nil	nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	small mines working very systematically	conservation were taken care by the lessee company.	no beneficiation issues.

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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)	Not applicable	nil	No any new area is comes under the present workings.
8b	Concurrent use or storage of topsoil	Not applicable.	nil	nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes proposals made for separate OB, fines and no rejects, waste rock.	Yes OB dump was present in the ear marked place. fines stack were present within the working area for e-auctions.	Some of the dumps were stabilized within the lease area & the fines and other ores were ready for despatch through e-auctions.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	no such proposals made.	No such materials were used for restoring.	on the day of inspection it was observed that the OB was dumped in the old dump area, but no waste rock, rejects & fines were used for restoring the land to its original use.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not applicable.	no such work is undertaken in the mine.	No any phased restoration , reclamation & rehabilitation work were within the land affected mining operation, except within the 7.5m area from the ML area.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	yes proposals made in the approved documents.	yes done in the 7.5m along the ML area & also in the waste dump area, within the lease.	The area available for the plantations are as such are very little & the additional plantations are done wthin the 7.5m line & also the area exhibits the presence of vegetations.
8g	Survival rate	60-70%	50-60%	as above.
8h	Water sprinkling on roads to control airborne dust	yes proposed in the approved documents.	Yes it is practiced.	yes water sprinklers are used for suppressing the dust.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	yes proposals made in the mine for maintaing the aesthetic beauty.	it is being followed in the mine to maintain the aesthetic beauty.	Yes during the inspection of the mine, it was found that the mine was maintained to keep the aesthetic beauty.
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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns upto October, 2015 and annual return for the period 2014-15 has been received.	from the monthly returns upto october, 15 it is reported for 42400t against 43000t/ annum. Just 600t to be achived upto March.2015.	With the limited area with restricted production annually by the CEC, accordingly it is met.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager Shri Shivananda Reddy, Geology in Charge Shri Benedito Joaquim Fernandes & no mining engineer reported.	Except mining engineer, others were present in the mine during the inspections.	Production was stopped due to limitation in the production limit & e-auction delay. Mining engineer not appointed due to constrain & the above reasons.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under current working=4ha, reclaimed/ rehabilitated=1.45 ha, waste disposal=1.477 ha & occupied by plant & building etc.=0.5569 ha. 2.82 ha area left for future mining purposes.	Reclamation & rehabilitation work indicated for 1.45 ha is found to be not appropriate. This area has been utilized for R & R work and not really used as exhausted from the mineral deposits & done back filled and rehabilitated.	The annual return need to be corrected and send a fresh copy after corrections.
9d	Scrutiny of Annual return on afforestation	700 nos. of saplings planted during the year with 80% survival.	The area already in forest, however, the lessee company planted along the ML boundary within 7.5m zone.	Yes, the lessee undertaken plantations in the ML area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral rejects generated during the year & nil report.	all the minerals excavated from the mine is being blended and consumed, some are crushed.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock is 9435t & production was 43000t for the year 2014-15 and the closing stock is 9435t.	The closing stock will be vary with the production carried out in the year 2015-16.	The production reported for the year 2015-16 is 42400t upto october, 2015.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The sale value is Rs. 700/t for lumps below 55%Fe, 62-65%Fe= Rs. 3800/t, for lumps and for fines 62-65 below Rs. 3500/t. 62-65%Fe below is Rs. 3650/t respectively. Cost of production is Rs. 815/t, ex-mine price is Rs. 300/t to Rs. 2800/t for below 55% to 65% Fe and above. The fines Rs. 1800/t.	The price varies from time to time depends on the buyers requirements.	The price is varying with the present market scenerio.
9h	Scrutiny of Annual return on fixed assets	The nil report furnished on FA.	nil	nil
9k	Scrutiny of Annual return on mining machineries	shovel-hydraulic=1, 1100cum. + 2300 cum=1 nos. dumper 30t capacity & water tank=8000 litre =1 nos. non electric.	The above machines are in use as observed during the inspections.	Due to stoppage of production, machineries were idle.

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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
Rule 23E(2)	17/12/2015				
Rule 45(7)	17/12/2015				

**Date :**

**(C.PARAMESHWARAN)**

Indian Bureau of Mines