

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

**Inspection under SDF for star rating of mines REPORT**

**Bangalore regional office**

**Mine file No :** KNT/BLR/FE/427/BNG

**Mine code :** 30KAR03139

- (i) Name of the Inspecting : **P005** ) **C.PARAMESHWARAN**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/Shri Sathyaprakash M, Mines Manager, V.V.N. Raju, G  
Official with  
Designation
- (iv) Date of Inspection : 05/11/2019
- (v) Prev.inspection date : 31/07/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **IYLI GURUNATHAPPA**
- (b) **Registration NO.** : **IBM/463/2011**
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BELLARY
- Village : RAMGAD
- Taluka : SANDUR
- Post office : SUSHEELANAGAR
- Pin Code : 583119
- FAX No. : 08394-232444
- E-mail : iylimine@rmml.in, sathyapra
- Phone : 08394-232002 / 232003
- (f) **Police Station** : SANDUR
- (g) **First opening date** : 24/02/2006
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : Shri Shrenik Baldota, ED, M/s RMMPL  
Baldota enclave, AHB road,  
Hospet - 583 203.
3. (a) **Lease Number** : KAR1567
- (b) **Lease area** : 20.23
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 23/02/2026
4. **Mineral worked** : IRON ORE Main

## 5. Name and Address of the

Lessee : RAMGAD MINERALS & MINING(P) LTD  
 Baldota Enclave, Abheraj  
 Baldota Road Hospet BELLARY  
 KARNATAKA  
 Phone:08394-232002  
 FAX :08394-232333

Owner : RAMGAD MINERALS & MINING(P) LTD  
 Baldota Enclave, Abheraj  
 Baldota Road Hospet BELLARY  
 KARNATAKA  
 Phone: 08394-232002  
 FAX : 08394-232333

Agent : MEDA VENKATAIAH  
 RAMGAD MINERALS & MINING(P)  
 LTD Baldota Enclave,  
 Abheraj Baldota Road,  
 Hospet BELLARY KARNATAKA  
 Phone: 08394-232002  
 FAX : 08394-232333

## Mining Engineer

Name : SATHYA PRAKASH.M,Full Time  
 Qualification : BE MINING FCC  
 Appointment/ : 15/06/2016  
 Termination date

## Geologist

Name : VeeraVenkata Narashima Raju,Full Time  
 Qualification : M.Sc-Geology  
 Appointment/ : 01/08/2016  
 Termination date

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	11/12/2004
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	17/08/2009
	:	Mining Scheme rule 12 MCDR1988	21/02/2014
	:	Modif.approved Mining Scheme	23/05/2016
	:	MP modif under 17(3) MCR 2016	21/03/2018

## 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	No proposals	Nil	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposals.	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposals.	Nil	Nil, no proposals for the year 2018-19.
1e	Balance reserve as on 01/04/20	10.243 Million Metric tonnes.	10.243 Million Metric tonnes. as on 1/4/2019.	no changes.
1f	General remarks of inspecting officers on geology, exploration etc	No proposals drawn for the year 2018-19.	Nil	Nothing pending as such.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Given in Section C-C' of block -A and Sections D-D' & E-E' of Block B	Developed in the same Section C-C' of block -A and Sections D-D' & E-E' of Block B	No changes in the locationof developments.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed for Separate benches are to be maintained for ore and overburden	Worked in the same proposals of ore & the OB.	Worked as per the proposals.
2c	Stripping ratio or ore to OB ratio	1:0.59	1:0.58	Very slight difference.

2d	Quantity of topsoil generation in m3	No Proposals.	Nil	Not much top soil is generated during the year and whatever little quantity is generated is used for plantation purpose.
2e	Quantity of overburden generation in m3	148432 m3	146625 m3	1807 m3 difference in the target.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Given target.	Done for OB & not top soil	Yes undertaken on OB only.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	A-Block B-Block	A-Block B-Block	There is only one pit in the mine and work carried out in A and B blocks of the mine as per proposal.
3b	Quantity of ROM mineral production proposed	Proposed 500000 MMT	500000 MMT produced.	Proposals acheived.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	No changes.
3d	Quantity of mineral reject generation	No proposals.	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposals.	Nil	Nil
3f	Quantity of sub grade mineral generation.	No proposals.	Nil	Nil
3g	Grade of sub grade mineral generation	No proposals.	Nil	Nil

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	Same as above.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposals.	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	As per the proposals in the approved document.	Done as per the approved document.	Same no changes.
3k	Provision of mining machineries in mineral benches	As per proposal	Done as per the proposals.	No changes.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Given 9m	9m is kept for Ore & OB	Maintained.
3m	Total area covered under excavation/pits	Given 9.98 ha	9.98 ha as on date of inspections.	But in the approved MP it is reported 11.30 ha at the beginning of the start of the mine.
3n	Ore to OB ratio for the pit/mine during the year.	Given 1: 0.17	1:0.17	No changes.
3o	Total area put in use under different heads at the end of year	Mining-9.75 Active dump- 1.09 Inactive dump- 1.54 Backfilling- 2.85 Infrastructure & Others -0.21 Road-0.28 Biodiversity area-0.50 Safety zone- 1.44 Unbrocken-2.69 Total-20.35	Mining-9.98 Active dump-1.09 Inactive dump-1.54 Backfilling-2.15 Infrastructure & Others- 0.68 Road-0.28 Biodiversity area-0.50 Safety zone-1.44 Unbrocken-2.69 Total-20.35	As per the AR- 2018-19, it is given 20.23 ha as ML area extent, but in the approved Mining plan it is reported for 20.35 ha, how this difference arrived may be explained.

3p	Production of ROM mineral during the last five year period as applicable	2014-15: 3.2 MT 2015-16: 3.2 MT 2016-17: 3.2 MT 2017-18:3.2 MT 2018-19: 5.0 MT ( in tonnes)	2014-15: 3.2 MT 2015-16: 3.2 MT 2016-17: 3.2 MT 2017-18:3.2 MT 2018-19: 5.0 MT ( in tonnes)	No changes, all in Lakhs tonnes.
3q	General remarks of inspecting officers on method of mining etc.	Proposed	Work is going on as per the approved document.	Work is going on satisfactory.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposals.	Nil	Nil
4b	Location of topsoil, OB and mineral reject dumps	2016-17: Backfilling & Rehandling of Temporary dump  Backfilling: N1676270 to 1676060 E 654900 to 655200 Temporary dump(Waste): N1676030 to 1675880 E 655170 to 655320	2016-17: Backfilling & Rehandling of Temporary dump  Backfilling: N1676270 to 1676060 E 654900 to 655200 Temporary dump(Waste): N1676030 to 1675880 E 655170 to 655320	From 2016-17 reporting for Back filling, if it is so, why the Back filling area( reclamation & rehabilitation is not reported in the annual return.
4c	Number of dumps within lease area and outside of lease area	Within Lease = 5 Outside Lease =3	Within Lease = 5 Outside Lease =3	AD-1, ID-1,2,3, & BF-1 EID-1,2,3
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Active Dump: N1676270 to 1676060 E 654900 to 655200	Active Dump: N1676270 to 1676060 E 654900 to 655200	No changes.
4e	Number of active and alive dumps.	One dump only	Single only	yes one only.

4f	Number of dead dumps.	4 nos.	4 nos.	No changes.
4g	Number of dumps established.	4 nos.	4 nos.	same as above.
4h	Whether Retaining wall or garland drain all along dumps are there.	As per proposal in the approved document.	Yes done as per the approved document.	Yes done.
4i	Length of Retaining wall or garland drain all along dumps	Re-strengthening of R-R dry wall work	Re-strengthening of R-R dry wall work	Done as above.
4j	Number of settling ponds	One no.	Yes single only SST-1.	Done one only.
4k	Specific comments of inspecting officer on waste dump management	Given in proposals.	Done , as per the approved document in the past & also in the present.	The topography is not conducive to handle the waste in the typical slopy area.

#### 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.	Backfilling is proposed in Block A mined out area for the period 2018-19	Accordingly backfilling was done in Block A.	Though the back filling is going on in the field, but the datas in the annual return is not matching.
5b	Area under backfilling of mined out area	2.85 Ha	2.15 Ha	This figure should be reflected in the AR-2018-19 to be appropriate.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals.	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No proposals.	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Given proposals for back filling	Going on as per the proposals, but not completed to take up reclmation work.	Only after back filling is completely done, re-habilitation work may not be possible.

## 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).	Proposed in the approved MP.	Submitted	Yes submitted satisfactory.
6b	Area available for rehabilitation (ha) .	0.24 Ha	0.87 Ha	Inside & Outside the lease
6c	afforestation done (ha).	No proposals.	Nil	Nil
6d	No. of saplings planted during the year	2000 saplings	4111 saplings	Including Gap filling ,Inside & Outside the Lease
6e	Cumulative no .of plants	No proposals	1,59,346 saplings	as above.
6f	Any other method of rehabilitation	No proposals.	Nil	Nil
6g	Cost incurred on watch and care during the year	No proposals.	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Backfilling is proposed in mined out area of A-block	Back filling is carried out in the designated area.	same as above.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Backfilling is proposed in mined out area of A-block	Backfilling is being carried out in mined out area of A-block	It is in progress.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposals	Nil	Nil, not matured to carry out afforestations on the BF area.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals.	Nil	Nil



6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposals.	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposals.	nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposals.	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	It is being done through the outside agency.	Yes it is done with the outside agency.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Drawn in the approved MP	It is fiollowed as and when applicable.	Yes it is being done.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	500000 tons (58-61% Fe)	500000 tons (58-61% Fe)	SAME NO CHANGE.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical method adopted.	No changes.
7c	Different grade of mineral sorted out at mines.	Lumps +58% Fe Fines +58% Fe	Lumps +58% Fe Fines +58% Fe	As above, no changes.

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7d	Any beneficiation process at mines	No proposal	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Proposed in the approved MP.	Yes it is being followed accordingly.	It is done satisfactorily in the mine.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	The mine is working in the already broken area as such to get top soil.	No top soil working.
8b	Concurrent use or storage of topsoil	No Proposal	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Given in the proposals.	Yes it is done as per the proposals.	Yes done in the mine.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals.	Nil	Nil
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)	Given in the document.	Yes Available	As above.

8g	Survival rate	Given 80%	80% survival rate is indicated.	yes it is found in the field observations.
8h	Water sprinkling on roads to control airborne dust	Given	water sprinkling is being done in the mine.	Yes done in the mine.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Given in the approved document.	Yes it is followed in the mine for keeping the mine	Yes the aesthetic beauty is maintained.

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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 submitted up to September 2019 Annual Returns submitted up to 2018-2019	submitted as per the returns format.	submitted satisfactorily.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	given as per the format	Shri Satyaprakash is the Mines Manager & Mining engineer. Shri. V.V. N. Raju is the Geologist.	Yes all the officials are present & working in the mines.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	given in the return as per the format	Covered current working=9.98 ha, reclaimed/rehabilitated=2.54 ha, waste disposal=2.15 ha, plant, building etc.,=1.05 ha, safety zone, & other work done=4.51 ha.	The extent of the area given for reclamation / rehabilitation as 2.54 ha, is not appropriate. presently, only reclamation is under progress , only after completion of reclamation work, rehabilitation work is possible to start.
9d	Scrutiny of Annual return on afforestation	given as per the returns	3083 nos within ML area with 78% Survival, 1028 nos in outside ML area with 80% survival rate.	As reported by the lessee in the return is found to be appropriate.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the return	It is reported nil.	No generation of MR.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the return as per the format	Opening stock was 1040t, production was 500000t & the closing stock was 1040t. Grade wise production is 58% to 58%Fe. & 60% Fe to 62%Fe of lumps. Fines of 58 to 60%Fe.	as reported.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	Ex-mine price is Rs. 2918/t for 58 to 60%Fe. and Rs. 3111/t of 60-62%Fe lumps. Rs. 2244/t for 58-60%Fe. the cost of production is Rs. 1015/t of ore. The sale price is rs. 3300/t of lump iron ore with 60-62%Fe. and fines Rs. 2310/t of 58-60%Fe.	As reported in the returns.
9h	Scrutiny of Annual return on fixed assets	Given in the return.	Rs. 48,38,688.00	no changes.
9k	Scrutiny of Annual return on mining machineries	Gven in the returns as per the existance in the filed.	Shovels-4 nos of various capacity, wheel loader-03 nos, dumper-18 nos, water tanker & generator-01 no.	The machineries which are in use in the mine are reported accordingly.

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

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	04/02/2020			
MCDR17	Rule 45(5)(k	04/02/2020			

**Date :**

(C.PARAMESHWARAN)

Indian Bureau of Mines