

**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 : **A101** ) **ARUN KUMAR**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Sathyaprakash M, Mines Manager, V.V.N. Raju, Geo  
Official with  
Designation
- (iv) Date of Inspection : 23/06/2021
- (v) Prev.inspection date : 05/11/2019

**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, sathyapr**
- 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 Proposal	Nil.	No backlogs.
1b	Exploration over lease area for geological axis 1 or 2	G1 & G4	G1 : 12 Ha, G4 : 8.23 Ha as per approved document	In the previous years 32 bore holes were drilled amounting to total meterage of 1735.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	NIL.	Rs.5470719/- spent on exploration in the past.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	8.23 Ha	Unexplored area to be converted into G1 level.
1e	Balance reserve as on 01/04/20		9.743 Million tons as on 01.04.2020 with average grade of 58.93% Fe	As per AR submitted for F.Y. 2019-20.
1f	General remarks of inspecting officers on geology, exploration etc			12 Ha of mineralized area has been explored by drilling core & RC drill holes. In all 32 bore holes were drilled amounting to total meterage of 1735.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Proposed location of development: N 1676135 to 1675736 & E 655021 to 655465	Actual location of development: N 1676135 to 1675736 & E 655229 to 655447	From section line C-C' to F-F'.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in OB & ore	Separate benches are maintained in OB & ore	No. of benches : Ore-6 Benches ,OB-2 Benches
2c	Stripping ratio or ore to OB ratio	1:0.20	1:0.18	No significant change

2d	Quantity of topsoil generation in m3	No proposal	NIL.	No generation of top soil as working carried out in the broken up area.
2e	Quantity of overburden generation in m3	86883 Tons	90795 Tons	BD Ore: 2.95 t/m3 OB: 2.00
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The development was carried as per the proposal within the proposed grids. Separate benches in OB & ore maintained.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed	Actual working was carried out in Single pit	Single pit divided into A & B block
3b	Quantity of ROM mineral production proposed	0.50Million Tons	0.50Million Tons	NIL.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	NIL.
3d	Quantity of mineral reject generation	No proposal	Nil.	No generation of mineral reject.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not applicable	Nil.
3f	Quantity of sub grade mineral generation.	No proposal	Nil	No generation of sub grade mineral.
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	Nil.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method proposed for segregating from ROM	Mechanized method adopted for segregating from ROM	Dry crushing (150TPH) & screening(200TPH).

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study proposed.	No such beneficiation study carried out.	Nil.
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting proposed.	Drilling & blasting carried out to win the ore using 115 mm drill dia.	3.5m*4m using slurry explosive in combination with delay detonators and cord relays.
3k	Provision of mining machineries in mineral benches	Provision of mining machineries made in mineral benches.	Mining was done with the excavator & tipper combination.	Mining machineries used on the date of inspection: Excavators: 4nos., Tippers : 10nos., Drill : 01no., Wheel loaders : 2Nos.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height : 9 m Bench Height : 9-10 m	Bench height maintained at 8-9 m & width more than the height.	Nil.
3m	Total area covered under excavation/pits	9.96 Ha, at the end of plan period.	9.96 Ha, at the end of reporting year.	Nil.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.20	1:0.18	No significant change.
3o	Total area put in use under different heads at the end of year	Mining-9.96 Ha, Waste Dump-2.39Ha, Backfilling-3.80Ha, Infrastructure -0.21, roads-0.28 Ha, Others-3.71 Ha at the end of the plan period.	Mining-9.96Ha, Waste dumping (Backfilling)-2.25Ha, Reclaimed: 2.54 Ha, Infrastructure-0.97Ha, Others-4.51Ha at the end of reporting year.	Nil.
3p	Production of ROM mineral during the last five year period as applicable	2016-17-3.2 Lakhs 2017-18-3.2 Lakhs 2018-19-5.0 Lakhs 2019-20-5.0 Lakhs 2020-21-5.0 Lakhs	2016-17-3.2 Lakhs 2017-18-3.2 Lakhs 2018-19-5.0 Lakhs 2019-20-5.0 Lakhs 2020-21-5.0 Lakhs	All unit in tons, actual production is within the proposed limit.

3q	General remarks of inspecting officers on method of mining etc.	No deviation wrt exploitation was found during the site inspection dated 23.06.2021.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB proposed.	Separate dumping & backfilling of waste carried out.	Backfilling was carried out by OB.
4b	Location of topsoil, OB and mineral reject dumps	Backfilling & Rehandling of Temporary dump Backfilling: N1676060 to 1676260 & E 654929 to 655182	No change in location of backfilling.	32,000 Tons of graded fines with 58% fe was stacked in location N1676225 to N1676260 & E 655140 to 655180 in the backfilled area. Violation issued.
4c	Number of dumps within lease area and outside of lease area	Within Lease - 4 Outside Lease -3 Backfilling-1	Within Lease -4 Outside Lease -3 Backfilling-1	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Backfilling proposed.	OB Dumping is done by backfilling.	Backfilling proposed inside the UPL after exhausting of mineral.
4e	Number of active and alive dumps.	No proposal.	Nil.	
4f	Number of dead dumps.	4 Dumps	4 Dead Dumps	
4g	Number of dumps established.	4 Dumps.	4 Dumps.	Stabilization by plantation & coir matting.
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drain proposed all along dumps.	Retaining wall and garland drain constructed in the past all along the dumps.	Constructed as per approved R&R plan.
4i	Length of Retaining wall or garland drain all along dumps	Toe wall : 30m Garland drain : 30 m for backfilled area	Toe wall : Nil Garland drain : Nil	Violation issued.

4j	Number of settling ponds	No proposal.	Nil.	De silting work was carried out. Settling pond constructed outside UPL in the past.
4k	Specific comments of inspecting officer on waste dump management			Waste dump management were carried out as per the approved document. Violation issued for not constructing retaining wall & garland drain for backfilled area.

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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 proposed in Block A after full extraction of mineral.	Partial Backfilling was done as per the proposal.	Backfilling proposed in Block A ,mined out area for the period 2020-21.
5b	Area under backfilling of mined out area	2.54 Ha.	2.25 Ha at the end of reporting year.	Backfilling commenced from Oct-2016.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	Backfilling area was not matured for restoration. work in progress.	
5d	Total area fully reclaimed and rehabilitated	No proposal.	Nil.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling had been commenced from Oct-2016, covering 2.25 Ha in A Block.

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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted before 1st july of every year.	AR on PMCP submitted for 2019-20.	Report submitted on 05.06.2020.
6b	Area available for rehabilitation (ha) .	No proposal.	Nil.	
6c	afforestation done (ha).	0.28 Ha.	0.87 Ha.	Including Inside & outside the ML area.
6d	No. of saplings planted during the year	500 saplings proposed .	2500 saplings planted in FY 2019-20.	Gap plantation.
6e	Cumulative no .of plants	Not specified.	Cumulative 147300 saplings planted.	Nil.
6f	Any other method of rehabilitation	Proposed as per R & R plan.	Inactive dumps were reclaimed by coir matting& plantation.	Nil.
6g	Cost incurred on watch and care during the year	Rs. 100000/-	Rs. 55000/-	Nil.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal.	Nil.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	3.8 Ha .	2.25 Ha at the end of reporting year.	Nil.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal.	Nil.	Backfilling over the same area has been proposed in future.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Nil.	



6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	Nil.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal.	No waste land involved within ML.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	Nil.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By plantation.	Plantation done .	In the safety zone of 7.5 Mts all along the boundary.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed in core & buffer zone.	Environmental monitoring of air, water, noise & soil carried out regularly.	Monitoring carried out by Sums Techno Lbs Pvt. Ltd,Hospet. All the parameters were observed to be within the permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP was carried out as per the approved document. No deviation observed during the course of inspection.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade & size wise sorting.	Lumps:58-below 62% Fe, Fines: 58-60% Fe.	Low grade ore is blended with high grade ore.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical.	Mechanical.	Nil.

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7c	Different grade of mineral sorted out at mines.	Not specified.	Lumps:58-below 62% Fe, Fines: 58-60% Fe.	Nil.
7d	Any beneficiation process at mines	No proposal.	Dry crushing & screening.	Nil.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral conservation is taken care by blending Low grade ore with high grade ore to meet the market requirement.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal.	Not applicable.	No top soil generated.
8b	Concurrent use or storage of topsoil	No Proposal.	No top soil generated.	Incidental top soil used for afforestation.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal.	Nil.	Nil.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed with waste rock.	Backfilling was in progress.	Nil.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Nil.	Backfilling is not matured for restoration as of now.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Available.	Cumulative 147300 saplings planted.	
8g	Survival rate	85%	70-80%	
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water tanker is used for sprinkling & suppression of dust.	3 Nos of 8KL water tanker deployed.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Most of the land within ML area was degraded due to mining & allied activities. Aesthetic beauty in & around the mining area 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		M.R. Submitted up to June 2021 A.R. submitted up to 2019-20	AR submitted on 30.06.2020
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer cum Manager- M Sathyaprakash, Geologist- VVN Raju.	Same officers were present during the course of inspection.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C working: 9.96 Ha, waste disposal: 2.25Ha, Reclaimed: 2.54Ha, Infrastructure : 0.97 Ha, others-4.51 Ha.	Appears to be correct.	
9d	Scrutiny of Annual return on afforestation	WML-625 saplings @82% survival rate, OML-1875 saplings@76% survival rate.	Appears to be correct.	

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	ROM Stock:- OB-1040 Tons, Production- 500000 Tons, CB-1040 Tons.	Appears to be correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value: Lumps: Rs. 3016/ton, Fines: Rs. 1753.28/Ton Ex- Mine price: Lumps;58% to below 60%- Rs.2803/Tons, 60% to below 62%- Rs.3140/Tons, Ex- Mine price: Fines;58% to below 60%- Rs.1939/Tons, ,Production cost: Rs.889.50/ ton	Royalty, DMF & NMET not included in the cost of production.	Violation issued.
9h	Scrutiny of Annual return on fixed assets	Fixed Assets: Rs. 3620253 including land,plant ,machinery & transport equipment.	Appears to be correct.	
9k	Scrutiny of Annual return on mining machineries	Excavators-5, Dumpers-12, wheel loaders- 3 and 3nos. of water tankers.	Appears to be correct.	

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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
MCDR17	Rule 11(1)	20/07/2021			
MCDR17	Rule 26(1)	20/07/2021			
	Rule 45(7)(i)	20/07/2021			
	Rule 47	20/07/2021			

**Date :**

**(ARUN KUMAR)**

Indian Bureau of Mines