

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

**MCDR inspection REPORT**

**Bangalore regional office**

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

**Mine code :** 30KAR03139

- (i) Name of the Inspecting : **S47** ) **DR. Sudhakara T.L**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Vishwajit Ghosh (GM- Mines), Shri Debesh Gobinda  
Official with  
Designation
- (iv) Date of Inspection : 10-NOV-22
- (v) Prev.inspection date : 10-AUG-17

**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-FEB-06
- (h) Weekly day of rest : SUN
2. Address for : Shri Shrenik Baldota, ED, M/s RMMPL  
correspondance : 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-FEB-26
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 : K. Prabhudevappa,  
 BELLARY KARNATAKA  
 Phone: 08394-232002  
 FAX :

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 : DEBESH GOVINDA DAS.,Full Time  
 Qualification :  
 Appointment/ : 22-JUL-21  
 Termination date

## Geologist

Name : VeeraVenkata Narashima Raju,Full Time  
 Qualification : M.Sc-Geology  
 Appointment/ : 01-AUG-16  
 Termination date

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	11-DEC-04
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	17-AUG-09
		Mining Scheme rule 12 MCDR1988	21-FEB-14
		Modif.approved Mining Scheme	23-MAY-16
		MP modif under 17(3) MCR 2016	21-MAR-18
		Modif.approved Mining Scheme	20-JUL-21

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	06 no. of RC boreholes with a Total meterage of 300m	06 RC boreholes with a Total meterage of 300m (after modified approved document dated 20/07/2022)	Total no. of RC holes drilled during the year 2021-22 is 12nos. with a total meterage of 1489m
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	M/s RMML and M/s Rocktech Rs. 5415649/-	As per information provided by lessee
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1-Nil G2- 6.23 Ha G3-Nil	The total mineralized area 14Ha explored under G1 level.	6.23 Ha exploration carried out area is non-mineralized.
1e	Balance reserve as on 01/04/20	Iron ore reserves 19.513 MMT (HIO: 9.354MMT & HSIO: 10.159MMT) as on 30.06.2021	Balance Iron Reserves as on 01.04.2022 19.024 MMT	Details from approved Mining Plan and Annual returns 2021-22
1f	General remarks of inspecting officers on geology, exploration etc			Lessee has explored the Mineralized area under G1 level. However, Geological report not submitted as per Rule 12(4) of MCDR, violation pointed out.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N 1676335 To N 655400 E 654840 To E 1676400	N 1676335 To N 655400 E 654840 To E 1676400	Between section line E-E' and F-F' excavations are extended beyond the approved proposal limits of 910m and 937m respectively. Violation pointed out.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Maintaining separate benches for O/B and Mineral	Separate benches are maintained for O/B and Mineral	OB - 01 Bench Mineral - 07 benches
2c	Stripping ratio or ore to OB ratio	1:0.15 Ore: 4,99,000 Tons OB: 73,628 Tons	1:0.15 Ore: 4,89,270 Tons OB: 74,697 Tons	Stripping ratio is same as proposed.
2d	Quantity of topsoil generation in m3	No Proposal	Nil	Working is in broken-up area
2e	Quantity of overburden generation in m3	36,814 Cu.m	37,348.5 Cu.m	OB generated is almost near to the proposed volume.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine benches developed systematically. Deviation in vertical extent observed between Section line E-E' and F-F'. Violation pointed out.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit divided into A A & B Blocks & B Blocks	Single pit divided into	Single pit into two blocks
3b	Quantity of ROM mineral production proposed	4,99,000 Tons	4,89,270 Tons	4,89,270 Tons (As per the Annual production limit fixed by State Govt.). Achieved 98% of the proposed production
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Entire ROM processed by crushing and screening.
3d	Quantity of mineral reject generation	No proposal	NIL	NIL

3e	Grade of mineral rejects generation and threshold value declared.	No proposal	NIL	Entire ROM processed by crushing and screening, no mineral reject generated.
3f	Quantity of sub grade mineral generation.	No proposal	NIL	NIL
3g	Grade of sub grade mineral generation	No proposal	NIL	No sub-grade generated.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method adopted	Mechanized method adopted	ROM produced is segregated in to saleable products of lumps and fines by crushing and screening process
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	NIL	ROM produced is segregated in to saleable products of lumps and fines by crushing and screening process
3j	Provision of drilling and blasting in mineral benches	After Completion of drilling operation, as per the requirement, the blasting plan will be implemented. In this process, normally explosives (slurry explosives, ANFO, LOX etc.,) will be filled in drilled holes and blasted by using delay detonators, card relays.	As per proposal	Drilling and blasting carried out as per proposal.

3k	Provision of mining machineries in mineral benches	Excavator - 06 Tippers - 10 Drilling machine - 01 Wheel loader - 03 Water tanker - 04 Mobile C & S plant - 01	Air Compressor - 01 Shovel (Hydraulic) - 04 Front End Loader - 03 Dumper - 08 Generator - 01 Mobile C & S Plant - 01	Machineries used in development as proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Benches height OB: 9m Benches height Ore: 9m Width of benches : 9 - 10m	As per proposal	Mine benches developed systematically, proposed height maintained in mineral and OB
3m	Total area covered under excavation/pits	13.76 Ha Proposed till 31.03.2024	13.76 Ha	The area is including backfilling progress area
3n	Ore to OB ratio for the pit/mine during the year.	1:0.15	1:0.15	Actual Ore: 4,89270 Tons OB: 74,697 Tons
3o	Total area put in use under different heads at the end of year	Mining : 9.96Ha Roads : 0.28Ha Infrastructure : 0.21Ha Backfilling : 3.8Ha Others (Biodiversity, Green Belt, Unborken area & Others): 3.21Ha Waste dump area Reclaimed: 2.54Ha (Proposals till 31.03.2024)	Mining : 9.96Ha Roads : 0.28Ha Infrastructure : 0.21Ha Backfilling : 3.8Ha Others (Biodiversity, Green Belt, Unborken area & Others): 3.21Ha Waste dump area Reclaimed: 2.54Ha	As per approved mining plan, total area put to use 18.08Ha. Total landuse area is within proposed limit.

3p	Production of ROM mineral during the last five year period as applicable	2017-18: 0.32 MT 2018-19: 0.50 MT 2019-20: 0.50 MT 2020-21: 0.50 MT 2021-22: 4.99 MT ( in million tons)	2017-18: 0.32 MT 2018-19: 0.50 MT 2019-20: 0.50 MT 2020-21: 0.50 MT 2021-22: 0.489 MT ( in million tons)	As per Annual Returns
3q	General remarks of inspecting officers on method of mining etc.			Method of Mining is Mechanized. ROM produced is segregated in to saleable products of lumps and fines by crushing and screening process. Mine benches systematically developed, benches height & width maintained as proposed.

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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)	No proposal of waste dump. Back filling proposed.	Waste generated has been backfilled as proposed.	All the waste generated is backfilled in A-Block as per proposal.
4b	Location of topsoil, OB and mineral reject dumps	E 654835 to N 1676320 to E 655080 N 1676515	E 654840 to N 1676335 to E 655055 N 1676545	Backfilling area location
4c	Number of dumps within lease area and outside of lease area	3 dumps within lease area & No dumps outside lease area	3 dumps within lease area & No dumps outside lease area	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	E 654840 to E 655055 N 1676335 to N 1676545	E 654840 to E 655055 N 1676335 to N 1676545	Waste generated is backfilled in A-Block as per proposal

4e	Number of active and alive dumps.	No dump proposal.	NIL	Waste generated has been backfilled as proposed
4f	Number of dead dumps.	1	1	Dump is stabilized and covered with planatation.
4g	Number of dumps established.	1	1	Dump is stabilized and covered with planatation.
4h	Whether Retaining wall or garland drain all along dumps are there.	As per R&R proposal	Retaining wall and Garland drain there along the toe of stabilized dump. Construction at the toe of the Back filling area is not completed as per proposal.	NIL
4i	Length of Retaining wall or garland drain all along dumps	Toe wall 50m length Garland drain 50m length	Not constucted	Construction at the toe wall of the Back filling area is not completed as per proposal. Violation pointed out.
4j	Number of settling ponds	No proposal	NIL	Settling pond SST-1 which was constructed earlier near Toe wall-1 is maintained by lessee.
4k	Specific comments of inspecting officer on waste dump management			Waste dumps are stabilized. Retaining wall and garland drain observed along the toe of the stabilized waste dump at southern part of the dump. Waste generated during the year 2021-22 has been backfilled at the earmarked location.

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Solid Waste Management - Backfilling:

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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.	No proposal	Back filling is under progress in Mined out area of A- block as per proposal.	As per geological data, mineral exhausted in the backfilling area.
5b	Area under backfilling of mined out area	Total area proposed 3.08Ha till 31/03/2024	2.38 Ha	Cumulative area backfilled so far 2.38 Ha
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	NIL	Top soil generated in the lease has been utilized for plantation.
5d	Total area fully reclaimed and rehabilitated	2.54 Ha	2.54 Ha	Old fully stabilized inactive dumps (ID-1, ID-2, ID-3 and AD-1)
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Back filling is in progress at the earmarked location at A-Block. Lessee has made terraces and maintained the gradient. The proposed toe wall near back filling area not constructed, violation pointed out.

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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).	June-2022	10th June 2022	Submitted within stipulated time
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL

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6c	afforestation done (ha).	No proposal	NIL	Gap filling plantation done on Inactive dumps.
6d	No. of saplings planted during the year	Gap filling in the inactive dump: 500 nos.	3380 saplings	Gap filling on inactive waste dumps and in safety zone.
6e	Cumulative no .of plants	No proposal	1,70,160 saplings	Cumulative plantation so far both in inside and outside the lease area.
6f	Any other method of rehabilitation	No proposal	NIL	Inactive dump stabilized by plantation
6g	Cost incurred on watch and care during the year	1.00 Lakhs	1.80 Lakhs	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 Voids available for backfilling 230m x 160m x 75m	Back filling is under progress at the proposed area. 110m Length x 55m Width x 7 m Depth)	Backfilling is in progress at the A-block as proposed.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	NIL	Backfilling is under progress, not possible to reclaim at this stage.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	NIL	Backfilling is under progress, not possible to reclaim at this stage.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	NIL	NIL

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	NIL	No waste land in the lease area
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	NIL	Inactive Waste dumps in the lease area stabilized and rehabilitated by plantation
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed in core and buffer zone	Carried out as per core and buffer zone as per proposal	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Lessee has carried out backfilling in the proposed area. Plantation carried out on the stabilized waste dump.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Lumps and fines sorting	Lumps & fines sorting done at mine site using screen plant	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical Screening Mechanical	By using mobile Crushing & Screening plant	NIL
7c	Different grade of mineral sorted out at mines.	Lumps 58-60 % Fe and 60-62 % Fe Fines 58-60% Fe	Lumps 58-60 % Fe and 60-62 % Fe Fines 58-60% Fe	NIL

7d	Any beneficiation process at mines .	No proposal	ROM produced is segregated in to saleable products of lumps and fines by crushing and screening process.	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There is no beneficiation proposal. Lessee is salable products of lumps & fines at mine site using mobile crushing & screening plant.

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	NIL	NIL
8b	Concurrent use or storage of topsoil	No Proposal	NIL	Top soil generated has been used for plantation.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Mineral reject. Waste/OB generated proposed for backfilling	As per proposal	No minerals rejects produced. Waste/OB generated has been backfilled at Block-A as proposed
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling is proposed in the mined out area of A-Block	Backfilling is under progress at the proposed area	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed	Backfilling under progress to reclaim the mine pit where ore is exhausted.	Backfilling under progress to reclaim the mine pit where ore is exhausted. The inactive waste dump (2.54Ha) is stablized and covered with plantation.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Base line information need to be maintained	Base line year wise plantation data available	So far more than 1.70 lakhs plants planted both inside and outside the lease.
8g	Survival rate	--	84% (Inside) 74% (Outside)	NIL
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on roads to control	Water sprinkling proposed on roads to control airborne dust	Lessee is using 8KL control the airborne dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Lessee has maintained greenery along the safety zone and also on the In-active waste dump. Aesthetic beauty in and around mines area is good.

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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 08.11.2022 Annual Returns submitted up to 2021-2022 on 30.06.2022	Monthly Returns submitted up to 08.11.2022 Annual Returns submitted up to 2021-2022 on 30.06.2022	Returns submitted within stipulated time.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Eng. - 02 Geologist - 01 Mines Manager -01	All present during the day of inspection.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit - 10.88 Ha Waste dump - 2.540 ha Backfilled area - 2.38 ha Others - 3.94Ha	Except pit area, all area details given AR appears to be correct. Pit area is about 9.96Ha.	NIL

9d	Scrutiny of Annual return on afforestation	3380 plants plated during 2021-22 Survival rate : 85%	Appears to be correct	Plantation mainly done on safety zone and on waste dump as a gap filling
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM (in tones) Opening stock: 25040.01 Production: 489270 Closing stock: 5062.01 Graded ore production/dispatch	Appears to be correct	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Lumps Fe 58% to below 60% : Rs. 5793 Fe 60% to below 62% : Rs. 4615. Fines Fe 58% to below 60% : Rs. 3331	In cost of production exploration cost not considered.	In lumps, Fe 60 to 62% price is less than Fe 50 to 60% price due low tumbler index. In cost of production exploration cost was not considered. Violation pointed out, asked for rectification.
9h	Scrutiny of Annual return on fixed assets	Rs. 18811119	Land value also considered in fixed assets. However, lease area is in Forest land.	Land value also considered in fixed assets. However, lease area is in Forest land. Violation pointed out.
9k	Scrutiny of Annual return on mining machineries	Air Compressor - 01 Shovel (Hydraulic) - 04 Front End Loader - 03 Dumper - 08 Generator - 01 Mobile C & S Plant - 01	Appears to be correct.	NIL



**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)	30-NOV-22			
MCDR17	Rule 12(4)	30-NOV-22			
MCDR17	Rule 45(7)(a)	30-NOV-22			

**Date :**

(DR. Sudhakara T.L)

Indian Bureau of Mines