

**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 : **278**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : S/Shri K. Madhusudhana(VP-Mines) and VVN Raju, Geolog
Official with
Designation
- (iv) Date of Inspection : 10/08/2017
- (v) Prev.inspection date : 05/03/2015

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. : **08394-232333 (F) 0839423200**
- E-mail : **iylimine@rmml.in, sathyapra**
- Phone : **08394-232003 (O),004,005**
- (f) **Police Station** : **SANDUR**
- (g) **First opening date** : **08/07/2013**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **Shrenik Baldota 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
 NEHRU CO-OP COLONY, HOSPET,
 BELLARY, BELLARY KARNATAKA
 Phone:08394-28402,24694
 FAX :08394-245037,25052

Owner : RAMGAD MINERALS & MINING(P) LTD
 NEHRU CO-OP COLONY, HOSPET,
 BELLARY, BELLARY KARNATAKA
 Phone: 08394-28402,246
 FAX : 08394-245037,25

Agent : MEDA VENKATAIAH
 BELLARY KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : LAXMIKANTH,Full Time
 Qualification : B.TECH (MINING)
 Appointment/ : 02/03/2005
 Termination date

Geologist

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

Manager

Name : SATHYA PRAKASH.M
 Qualification : BE MINING FCC
 Appointment/ : 01/06/2012
 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal during 2016-17	Nil	During F.Y. 2013-14 and F.Y 2009-10, lessee had drilled 17 nos. and 19 nos. of core boreholes respectively in the ML area.
1b	Exploration over lease area for geological axis 1 or 2	G1 level of exploration	G1	G1 stage of exploration over mineralized area of 15 Ha.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Not Applicable.	
1e	Balance reserve as on 01/04/20	No proposal	11.06 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			No deviation w.r.t. exploration was found during site inspection dated 10.08.2017

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	From section C-C' to D-D'	No change	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate benches proposed in OB and ore	No change.	
2c	Stripping ratio or ore to OB ratio	1: 0.9	1: 0.8	
2d	Quantity of topsoil generation in m3	No proposal	Nil	

2e	Quantity of overburden generation in m3	149200 m3	126204 m3 (252408 tonnes)	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No deviation w.r.t. development was found during site inspection dated 10.08.2017

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit in Block A	Single pit in Block A measuring 440m x 20m x 80m	
3b	Quantity of ROM mineral production proposed	0.32 million tonnes	0.32 million tonnes	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not Applicable	
3f	Quantity of sub grade mineral generation.	No Proposal	Not Applicable	
3g	Grade of sub grade mineral generation	No Proposal	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	Dry screening only	

3j	Provision of drilling and blasting in mineral benches	Proposed.	Slurry explosive with AFNO	
3k	Provision of mining machineries in mineral benches	Proposed	As per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	Yes, bench height maintained at 8 to 9m	
3m	Total area covered under excavation/pits	9.97 Ha.	9.7 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.9	1: 0.8	
3o	Total area put in use under different heads at the end of year	Mining-9.97 Active dump-1.09 Inactive dump-0.61 Backfilling-2.85 Infrastructure-0.21 Road-0.28 Biodiversity area-0.50 Safety zone-1.44 Unbroaken-3.24 Eng Structure-0.16 Total-20.35 (In Ha.)	No change	
3p	Production of ROM mineral during the last five year period as applicable	2012-13: Nil 2013-14:320000 2014-15:320000 2015-16:320000 2016-17:320000 (in tonnes)	2012-13: Nil 2013-14: 320000 2014-15: 320000 2015-16: 320000 2016-17: 320000 (in tonnes)	
3q	General remarks of inspecting officers on method of mining etc.			No deviation w.r.t. exploitation was found during site inspection dated 10.08.2017

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed	Seperate dumping and backfilling of waste	
4b	Location of topsoil, OB and mineral reject dumps	Backfilling & Rehandling of Temporary dump Backfilling: N 1676270 to 1676060 E 654900 to 655200 Temporary dump: N 1676030 to 1675880 E 655170 to 655320	no change in location of backfilling.	
4c	Number of dumps within lease area and outside of lease area	Within Lease: 4 nos.	No change	In A Block: 1 dump and in B Block: 3 dumps.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	all dumps are inside UPL	Active Dumping is by backfilling: N 1676270 to 1676060 E 654900 to 655200	
4e	Number of active and alive dumps.	1 no.	1 no.	
4f	Number of dead dumps.	3 nos.	3 nos.	
4g	Number of dumps established.	3 nos.	3 nos.	
4h	Whether Retaining wall or garland drain all along dumps are there.	yes proposed	Constructed as per the proposals.	
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	434m Reataining wall and 100m Garland drain	Lessee has constructed retaining wall and garland drain as per the approved R & R plan.
4j	Number of settling ponds	No proposal	1 no. outside UPL	
4k	Specific comments of inspecting officer on waste dump management			Waste dump management were carried out satisfactorily.

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 2016-17	No change	
5b	Area under backfilling of mined out area	1.38 Ha.	1.38 Ha.	Backfilling was commenced from Oct-2016
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Backfilled area was not matured for restoration, work in progress.	
5d	Total area fully reclaimed and rehabilitated	No proposal	Not Applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No deviation w.r.t. backfilling was found during site inspection dated 10.08.2017

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).	Yes.	Annual Report on PMCP submitted by the lessee for F.Y. 2016-17.	
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	
6c	afforestation done (ha).	0.28 Ha.	0.28 Ha.	
6d	No. of saplings planted during the year	2000 nos.	8000 saplings	
6e	Cumulative no .of plants	Not specified	Cumulative 147300 nos. of saplings planted.	
6f	Any other method of rehabilitation	Proposed as per the approved R & R Plan	Inactive dumps were reclaimed by the lessee by coir matting/ geo-textiles and plantation.	

6g	Cost incurred on watch and care during the year	Rs. 1.5 Lakhs	No change.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	No Proposal	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No Proposal	Nil
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	No waste land involved within ML.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By Plantation	Yes.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Carried out periodically.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No deviation w.r.t. PMCP was observed during the course of inspection.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade and size wise sorting	Lumps: 55-62% Fe Fines: 58-65% Fe.	Low grade ore is blendable with high grade.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical	
7c	Different grade of mineral sorted out at mines.	Not specified	Lumps: <55% Fe, 58-60% Fe & 60-62% Fe Fines: 58-60% Fe & 62-65% Fe	
7d	Any beneficiation process at mines	No proposal	Dry screening	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No deviation w.r.t. mineral conservation was observed during the course of inspection.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Not applicable.	
8b	Concurrent use or storage of topsoil	No proposal	No top sil generation during 2016-17	incidental top soil are used for afforestation.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	seperate dumps for waste and BHQ are proposed	No change.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	backfilling is proposed with waste rock and fines.	backfilling of mined out land with waste rock/ fines is in progress.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Not Applicable.	B/F is under progress, not matured for restoration as of now.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	Cumulative 147300 saplings were planted	
8g	Survival rate	85%	70-80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	water tankers are being used for sprinkling.	
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 and allied activities; aesthetic beauty of the unbroken forest land located in around the mining area was maintained.

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. Submitted up to Aug. 2017 A.R. submitted up to 2016-17	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager cum Mining Engineer: Shri Sathyaprakash M. Geologist: Shri VVN. Raju	No change.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under current O/C working: 9.97 Ha. Used for waste disposal: 3.94 Ha. Reclaimed: 1.1 Ha. Infrastructure : 0.49 Ha.	Appear to be correct except reclamation.	Inactive dumps were reclaimed by the lessee by coir matting/ geo-textiles and plantation.
9d	Scrutiny of Annual return on afforestation	8000 nos.	No change.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	no mineral reject generation during F.Y. 2016-17	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stack lumps <55% Fe: 12000 tonnes 60-62% Fe: 20002 tonnes ROM Stack fines 58-60% Fe: 117400 tonnes 62-65% Fe: 79 tonnes	Material dispatches through e-auction only. Lumps and fine stacks are being surveyed periodically by the officials of DMG, Karnataka.	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value lumps <55% Fe: Rs. 1500/ tonne 60-62% Fe: Rs. 1902/ tonne Sale value fines 58-60% Fe: Rs. 1631/ tonne 62-65% Fe: Rs. 1725/ tonne Production cost: Rs. 1513/ tonne	Appear to be correct.
9h	Scrutiny of Annual return on fixed assets	Fixed Assets: Rs. 362 lakhs.	Office building, Plant and mining machinery including transport equipment were present within ML area.
9k	Scrutiny of Annual return on mining machineries	5 nos. of hydraulic excavators, 12 nos. of dumpers, 3 nos. of wheel loaders and 3 nos. of water tankers	No change.

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

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines