

**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 : 130) PRASHANT S HEGDE
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/Shri Sathyaprakash M, Mines Manager, V.V.N. Raju, G
Official with
Designation
- (iv) Date of Inspection : 31/07/2018
- (v) Prev.inspection date : 10/01/2017

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	NIL	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	NIL	Entire mineralised area (15 Ha) covered under G-1	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Entire mineralised area (15 Ha) already covered under G-1.
1e	Balance reserve as on 01/04/20	-----	10.743 million tonnes of reserves with 56 to 63 % Fe grade.	As per last approved Modified MS dated 21/3/2018.
1f	General remarks of inspecting officers on geology, exploration etc	-----	-----	Lessee had carried out 19 nos of Core and 13 nos RC BHs with total meterage of 1735 so far and entire mineralised area (15 Ha) already covered under G-1.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Block A & B (Section CC' and DD')	Block A & B (Section CC' and DD')	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benched for OB and minerals	Separate benched for OB and minerals	NIL
2c	Stripping ratio or ore to OB ratio	1:0.68	1:0.99	Based on tonnage data and inclusion of proposed re-handling of temp. Dump of 174,437 tonnes.
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL

2e	Quantity of overburden generation in m3	109,418	159,968	BD : 2 considered and including re-handling of materials. Subsequently Modified MS document approved on 21/3/2018.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-----	-----	The modified SOM document was also approved on 21/3/2018 regarding production enhancement from 0.32 to 0.5 million tonnes per annum and deviation in development quantity.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	NIL
3b	Quantity of ROM mineral production proposed	320,000 tonnes	320,000 tonnes	NIL
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	NIL
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NA	NA	NIL

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Mechanised method	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposals	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting was proposed to remove hard lateritic cap (about 20 %)	Actual is as per the proposals.	NIL
3k	Provision of mining machineries in mineral benches	Excavators and tippers/dumper s combination.	Excavators and tippers/dumpers combination.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9 m bench height and width 10 m	9 m bench height and width 10 m	NIL
3m	Total area covered under excavation/pits	11.40 Ha	11.40 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.68	1:0.99	Based on tonnes data
3o	Total area put in use under different heads at the end of year	Mining: 11.4 Ha Dumps: 2.63 Ha Back-filling: 1.2 Ha Road: 0.28 Ha Infrastructure : 0.21 Ha	Mining: 11.4 Ha Dumps: 2.63 Ha Back-filling: 1.2 Ha Road: 0.28 Ha Infrastructure: 0.21 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 320,000 tonnes 2014-15: 320,000 tonnes 2015-16: 320,000 tonnes 2016-17: 320,000 tonnes 2017-18: 320,000 tonnes	2013-14: 320,000 tonnes 2014-15: 320,000 tonnes 2015-16: 320,000 tonnes 2016-17: 320,000 tonnes 2017-18: 320,000 tonnes	NIL

3q General remarks of inspecting officers on method of mining etc. ----- Mining operation are being carried out as per approved SOM and thier Modifications. The modified SOM document was also approved on 21/3/2018 regarding production enhancement from 0.32 to 0.5 million tonnes per annum.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Back-filling of OB & re-handling of temp. Dump waste in Block A (N-1676270 to 1676060 and E-654900 to 655200)	Back-filling carried out as the proposals.	NIL
4b	Location of topsoil, OB and mineral reject dumps	Backfilling of OB wastes proposed in Block A (N-1676270 to 1676060 and E-654900 to 655200)	As per the approved proposals.	NIL
4c	Number of dumps within lease area and outside of lease area	4 Nos	4 Nos	EID-1, EID-2 & EID-3 are encroched part of in-active dumps ID-1, ID-2 & ID-3 repsectively.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Back-filling proposed.	Back-filling carried out.	NIL
4e	Number of active and alive dumps.	1 nos (AD-1)	1 nos (AD-1)	NIL
4f	Number of dead dumps.	3 nos	3 nos	NIL
4g	Number of dumps established.	3 nos	3 nos	As per the approved R & R plan.

4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Cum. of 1027 m retaining wall and 560 m garland drain constructed so far as per the approved R & R plan.	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	Cum. of 1027 m retaining wall and 560 m garland drain constructed so far as per the approved R & R plan.	NIL
4j	Number of settling ponds	NIL	1 nos	NIL
4k	Specific comments of inspecting officer on waste dump management	-----	-----	Waste dumps management are being carried out as per approved SOM and their modifications.

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	Carried out as per the proposals.	NIL
5b	Area under backfilling of mined out area	1.2 Ha	1.2 Ha	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	No top-soil generation.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	Back-filling is under progress.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-----	-----	Back-filling is being carried out in block -A as per approved modified SOM.

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).	1st July of every year	28/06/2018	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	0.17 Ha	0.17 Ha	Under dump management.
6d	No. of saplings planted during the year	2000 nos of saplings	5365 nos of saplings	Under dump management.
6e	Cumulative no .of plants	NIL	1,52,655 nos of saplings so far in the mining area.	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	Rs 2 lakhs	Rs 2 lakhs	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	1.2 Ha	1.2 Ha	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.2 Ha	1.2 Ha	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NIL	Back-filling is under progress.
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	2570 nos of saplings planted outside ML during year 2017-18.
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)	Season-wise environmental monitoring of ambient air quality, water quality, dust fall rate, soil sample analysis and noise level proposed	Season-wise environmental monitoring of ambient air quality, water quality, dust fall rate, soil sample analysis and noise level are being carried out and all parameters are within limit.	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-----	-----	PMCP proposals are being implemented as per the proposals.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting within ML.	Grade-wise sorting within ML.	NIL

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical through mobile screening and crushing plant	Mechanical through mobile screening and crushing plant of 110 TPH capacity.	NIL
7c	Different grade of mineral sorted out at mines.	Grade wise sorting of fines and lumps of 58 to 60 % Fe and 60 to 62 % Fe.	Majority of production of fines and lumps are of 58 to 60 % Fe and 60 to 62 % Fe grade.	NIL
7d	Any beneficiation process at mines	NIL except dry screening and crushing.	NIL except dry screening and crushing.	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-----	-----	Mineral conservation is being carried out as per approved SOM and their modifications.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	No top Soil generation.
8b	Concurrent use or storage of topsoil	NIL	NIL	No top soil generation.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Back-filling of wastes in Block-A	Back-filling carried out as per the proposals.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	In-active dumps are being stabilised as per the approved R & R . Back-filling is under progress.	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	Back-filling is under progress and not matured for rehabilitation. In-active and active dumps are being stabilised as per the approved R & R plan.	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Entire ML falls under forest. Plantation of 2000 nos saplings proposed.	Plantation of 5,365 nos of saplings within ML and 2,570 nos of of saplings out-side ML were carried out during year 2017-18. About cumulative of 1,55,235 nos of saplings were planted so far.	NIL
8g	Survival rate	NA	70 %	NIL
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed	Water sprinkling on roads is being carried out through dedicated water tankers.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-----	-----	The aesthetic beauty in and around mining are is good as the lessee had carried huge afforestation and implementing environmental protective measures as per approved R & R plan.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR-2017-18 and Monthly Returns up to June-2018 submitted	AR and MRs submission were regular.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	S/Shri Sathyaprakash M, Mines Manager & ME, V.V.N. Raju, Geologist	Actual was the same.	NIL

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 9.75 Ha Backfilled area: 1.2 Ha Dumps: 2.63 Ha Infrastructure & road: 0.49 Ha	Actual was also same.	NIL
9d	Scrutiny of Annual return on afforestation	WML: 5,363 nos OWL: 2,570 nos	Actual also same.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Actual also same.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: 1040 tonnes	Actual also same at that time	Dispatch of graded ore through e-auction only.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price per tonne: Lumps below 55% Fe: Rs 1560=00 Lumps between 58 to 60% Fe: Rs 2390=00 Lumps between 60 to 62 % Fe: Rs 2697=00 Fines between 58 to 60 % Fe: Rs 2175=00 Cost of production per tonne: Rs 1372=10	Actual also same except following on calculation. Lumps between 58 to 60% Fe: Rs 3152=00 Fines between 58 to 60 % Fe: Rs 2157=00	The same was communicated to the lessee on 21/8/2018 for clarifications
9h	Scrutiny of Annual return on fixed assets	Rs 4,73,34,325=00	Actual appear to be same.	NIL
9k	Scrutiny of Annual return on mining machineries	Shovel (Hydraulic) 1.6 cum: 1 nos Shovel (Hydraulic) 1.2 cum: 3 nos Wheel loader 1.7 cum: 3 nos Dumpers(10 t) : 15 nos Water tanker: 3 nos Generator: 1 nos	Actual also same.	NIL

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 35(2)	23/08/2018			

Date :

(PRASHANT S HEGDE)

Indian Bureau of Mines