

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

**Mining Plan Modification REPORT**

**Bangalore regional office**

**Mine file No :** KNT/BLR/FE/408/BNG

**Mine code :** 30KAR03101

- (i) Name of the Inspecting : **P005** ) **C.PARAMESHWARAN**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/ Shri Manjunath Reddy. Mine Manager.  
Official with  
Designation
- (iv) Date of Inspection : 07/08/2018
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RAMANADURGA**
- (b) **Registration NO.** : **IBM/11807/2012**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **BELLARY**
- Village : **DHARMAPURA**
- Taluka : **SANDUR**
- Post office : **SANDUR**
- Pin Code :
- FAX No. : **08392-266767 (F),**
- E-mail : **kumnex@rediffmail.com**
- Phone : **08392-267484 (O), 94498419**
- (f) **Police Station** : **SANDUR**
- (g) **First opening date** : **17/03/1990**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **Sri Kumaraswamy Mineral Exports Pvt Ltd**  
**No.39B, 2nd Main, Paravathi Nagar,**  
**BELLARY- 583102**
3. (a) **Lease Number** : **KAR0329**
- (b) **Lease area** : **82.55**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **23/01/2012**
4. **Mineral worked** : **IRON ORE** **Main**

## 5. Name and Address of the

Lessee : SRI KUMARASWAMY MINERAL EXPORTS  
 2 ND CROSS, LINK ROAD,  
 PARVATI NAGAR, BELLARY  
 KARNATAKA  
 Phone:08392-79484  
 FAX :

Owner : SRI KUMARASWAMY MINERAL EXPORTS  
 GURUKRUPA NILAYA, NEHRU  
 COLONY, BELLARY. BELLARY  
 KARNATAKA  
 Phone:  
 FAX :

Agent : S.VIJAYAKUMAR  
 BELLARY KARNATAKA  
 Phone:  
 FAX :

## Geologist

Name : SHANMUKHAPPA MANDAL, Full Time  
 Qualification : MSc GEOLOGY  
 Appointment/ :  
 Termination date

## Manager

Name : BHARATH KUMAR.R.S  
 Qualification : D.MIN.ENGG WITH F.C.C  
 Appointment/ : 07/07/2004  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	07/03/1990
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	13/05/1999
	:	Mining Scheme rule 12 MCDR1988	06/06/2003
	:	Modif.approved Mining Scheme	18/04/2006
	:	Modif.of approved Mining Plan	17/08/2009
	:	Renewal under rule 24 MCR1960	18/09/2012
	:	MP review under 17(1) MCR 2016	08/03/2017
	:	MP modif under 17(3) MCR 2016	19/02/2018

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10 Core Bore Holes	64 Core Bore Holes	More than the proposed.
1b	Exploration over lease area for geological axis 1 or 2	G1-0.30 ha G2-5.45 ha G3-26.72 ha	G1-36.94 ha G2-5.138 ha G3-0.0 ha	more than the proposed quantity.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	not proposed.	M/s.Sri Kumaraswamy Mineral Exports Pvt.Ltd. No.462, SMIORE colony, Near Fire Station, SANDUR-583119. Phone No.9972099069 Expenditure-Rs.116.711 Lakhs.	undertaken and completed.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposals.	Nil	nil
1e	Balance reserve as on 01/04/20	No proposals.	49.445Million Tons	nil
1f	General remarks of inspecting officers on geology, exploration etc	given as per the approved document.	Undertaken and fulfilled.	yes completed.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1666500 to N1667000 E662100 to E662500	N1666500 to N1667000 E662100 to E662500	no change.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil-0 Overburden-2 Mineral-8	Top Soil-0 Overburden-2 Mineral-8	no change.
2c	Stripping ratio or ore to OB ratio	1:0.36	1:0.12	better than the proposed one.
2d	Quantity of topsoil generation in m3	niul	nil	nil

2e	Quantity of overburden generation in m3	72818	16409	concentrated on the production.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed.	Not achieved as proposed.	not met the target.

### Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One single pit only	single pit only.	yes one only.
3b	Quantity of ROM mineral production proposed	640000MT	426000 MT	less than the proposed one.
3c	Recovery of sailable/usable mineral from ROM production	640000MT	426000 MT	all the produced ores are saleable.
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	Fully mechanized.	Fully mechanized.	same.
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	Proposed in Hard Strata. Spacing & Burden is 3.0m & 3.5m  Hard Strata. Spacing & Burden is 3.0m & 3.5m	Hard Strata. Spacing & Burden is 3.0m & 3.5m	same.
3k	Provision of mining machineries in mineral benches	Given	Wagon Drill-01 No's, Air compressor-01 No's Excavators-6 No's, Wheel Loaders-04 No's, Dumpers-10 No's, Tipper-1 No's, Extec Screens-2 No's, Crushers-1 No. Water Tankers-04 No's	yes it is used in the mine.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB-7.5 M Mineral- 7.5M	OB-7.5 M Mineral- 7.5M	no change.
3m	Total area covered under excavation/pits	32.13 Ha	32.13 Ha	same no change.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.36	1:0.12	slight variation.
3o	Total area put in use under different heads at the end of year	48.2437 Ha	48.2437 Ha	same no change.
3p	Production of ROM mineral during the last five year period as applicable	2011-12: 1998365 2012-13: 640000 2013-14: 640000 2015-16: 640000 2016-17: 640000 2017-18: 640000 ( in tonnes)	2011-12: 263356 2012-13: 0 2013-14: 0 2015-16: 0 2016-17: 0 2017-18: 426000 ( in tonnes)	Mine is started late in 2017-18.

3q	General remarks of inspecting officers on method of mining etc.	proposed for systematic mining.	Mine is being worked systematically.	yes systematically worked in the mine as observed in the mine.
----	---	---------------------------------	--------------------------------------	--

## Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	no proposals.	Top soil -Nil Mineral Rejects-Nil	nil
4b	Location of topsoil, OB and mineral reject dumps	Waste Dumps N1666940- 1667120 E662200-662330	Waste Dumps N1666940-1667120 E662200-662330	no change.
4c	Number of dumps within lease area and outside of lease area	2 No's -Within the Lease area	2 No's -Within the Lease area	no change.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump-1 N1667390 to N1667658 E662055 to E661835 Dump-2 N1666970 to N1667095 E662180 to E662304	Dump-1 N1667390 to N1667658 E662055 to E661835 Dump-2 N1666970 to N1667095 E662180 to E662304	no change.
4e	Number of active and alive dumps.	2 No.	2 No.	no change.
4f	Number of dead dumps.	nil	nil	nil
4g	Number of dumps established.	nil	nil	nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	yes undertaken in the mine.
4i	Length of Retaining wall or garland drain all along dumps	RW-443 mtrs. Garland drains-Nil	Rock Wall Completed all along the Lease and Dumps -2799 M, Drains are Completed all along the Dumps-3405 M	yes completed.
4j	Number of settling ponds	No Proposal	Constructed 10 No's as on date	yes constructed.

4k	Specific comments of inspecting officer on waste dump management	proposed for systematic waste dump management.	As per the approved mining plan , proposals are being implemented.	yes it is being implemented.
----	--	--	--	------------------------------

#### 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.	No proposals.	Nil	Nil
5b	Area under backfilling of mined out area	No proposals.	Nil	Nil
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.	No proposals.	Nil	Nil

#### 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 submitted	yes submitted	yes.
6b	Area available for rehabilitation (ha) .	No proposals.	nil	nil
6c	afforestation done (ha).	No proposals.	nil	nil

6d	No. of saplings planted during the year	No proposals.	Nil	Nil
6e	Cumulative no .of plants	No proposals.	Nil	Nil
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	No proposals.	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals.	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposals.	Nil	Nil
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.	2.0302 Ha -Safety Zone,	As above.
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.	Ambient air quality done and submitted to respective departments regularly.	undertaken through outsourcing.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	proposals given	yes undertaken as per the approval of the document.	yes undertaken as proposed.

---

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	given	for dry screening of ROM.	same is followed.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	proposed.	Mechanized.	yes same mechanized.
7c	Different grade of mineral sorted out at mines.	proposed for various grades of ores.	Different grades of fines and the lumps.	yes undertaken.
7d	Any beneficiation process at mines	Given.	Dry mobile screening is undertaken.	yes undertaken.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	given for sytematic operations.	yes undertaken systematic conservation of minerals.	yes undertaken scientifically.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	not proposed	nil	nil
8b	Concurrent use or storage of topsoil	No proposals.	nil	nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed for the separate dumps & stacks.	yes it is followed..Dump-2 N 1666940-1667120 E 662200-662330	yes it is being followed.
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)	proposed for additional plantations.	Plantation was done in safety Zone & dumps slopes gap filling area & maintained regularly.	yes gap plantation and the safety barriers undertaken.
8g	Survival rate	proposed for 80%	80%	same as above.
8h	Water sprinkling on roads to control airborne dust	proposed for water spraying.	Water Tankers are arranged for water sprinkling on roads for control the dust.	followed regularly in the mine.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	proposed.	yes it is followed in the mine for aesthetic beauty.	yes it is followed.

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted MR & AR	submitted information as per the format.	yes satisfactory.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	given in the format as exist.	yes all the mining engineer , geologist & manager work in the mine.Mines Manager- P.Manjunath Mining Engineer -Srish Pal Geologist- Harish Ninganhalli	yes seen during the inspections.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	given as per the format.	(i)Already exploited & abandoned by(O/C)mining- 0.0 ha, (ii)Covered under current (O/C) Workings- 32.13 ha, (iii) Reclaimed/Rehabilitated- 0.00 ha, (iv) used for waste disposal- 3.020 ha, (v)Occupied by plant, buildings, residential, welfare buildings & roads-5.561 ha. (vi) Other Purpose (Area for Sub-grade stack, Protective Measures, Bunds, In active dump Stabilized wit plantation, Safe)-18.649 Ha.	satisfactory.
9d	Scrutiny of Annual return on afforestation	given.	Total No of saplings- 1180 No's Survival Rate-80%	as per the retrurns.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	no proposals.	nil	nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	given in the approved document.	Graded Ore Stocks: in tons (i)Lumps: 55% to 58%-47511.251, 60% to 62%-15984.03, 62% to 65%-19985.24, 65% & above- 0.010. (ii)Fines: 60% to 62%-10.030, 62% to 65%-48710.39. 65% & above-7987.070 Total Stocks - 140188.021.	produced as per the approvals.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given in the returns format.	Average Sale Value-Rs. Cost of Production-Rs.2788.	as per the formats.
9h	Scrutiny of Annual return on fixed assets	given	Rs.30351603	as given in the returns.
9k	Scrutiny of Annual return on mining machineries	given	Wagon Drill-01 No's, Air compressor-01 No's Excavators-6 No's, Wheel Loaders-04 No's, Dumpers-10 No's, Tipper-1 No's, Extec Screens-2 No's, Crushers-1 No. Water Tankers-04 No's .	as per the returns.

---

**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 :**

**(C.PARAMESHWARAN)**

Indian Bureau of Mines