

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

**MCDR inspection REPORT**

**Bangalore regional office**

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

**Mine code :** 30KAR03101

- (i) Name of the Inspecting : **S006** ) **SURESH PRASAD**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Mr. Nishant B. N. -Mines Manager, Mr. Veeresh Kumar K  
Official with  
Designation
- (iv) Date of Inspection : 23/08/2022
- (v) Prev.inspection date : 10/08/2021

**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 : Shantesh Gureddi Nominated Owner  
 516/4, 10th Cross, Rajmahal  
 Villas Extension, Sadashiv  
 Nagar, BANGALORE BELLARY  
 KARNATAKA  
 Phone: 9845036556  
 FAX :

Agent : Sitaram Kemmannu  
 BELLARY KARNATAKA  
 Phone: 8826164083  
 FAX :

Mining Engineer  
 Name : Nishanth B N,Full Time  
 Qualification : B.E.MINING  
 Appointment/ : 29/08/2018  
 Termination date

Geologist  
 Name : VOLVOIKAR AMBRISH,Full Time  
 Qualification : MSc GEOLOGY  
 Appointment/ : 26/04/2019  
 Termination date

Manager  
 Name : P MANJUNATH  
 Qualification : D IN MINING WITHFCC  
 Appointment/ : 23/09/2015  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 07/03/1990  
 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  
 MP review under 17(1) MCR 2016 23/08/2018  
 MP modif under 17(3) MCR 2016 26/02/2019  
 MP review under 17(1) MCR 2016 10/03/2020  
 MP review under 17(1) MCR 2016 09/12/2020  
 MP review under 17(1) MCR 2016 13/12/2021

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	6 Trial pits done.	During the year 6 trial pits done.
1b	Exploration over lease area for geological axis 1 or 2	No Proposal.	59.36 Ha.	Entire Lease area is Geologically Explored.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal.	6 Trail pits done Inhouse. Rs .30,000 /-	Trail pits are done in Dump - D1.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Laterally 59.36 Ha Mining Lease area is fully explored. However the lessee has proposed to drill 39 core bore holes during the year 2022-23 to establish the depth persistence of Ore of upto 35% Fe.	Laterally 59.36 Ha of the lease area is fully explored.
1e	Balance reserve as on 01/04/20		59.456 million Tons .	As per Annual Returns 2021-22.
1f	General remarks of inspecting officers on geology, exploration etc			The Entire Mining lease area is fully explored surfacially under G1 Level. Out of 59.36Ha, Potentially mineralized area is 36.25Ha. However to determine the depth continuity of the Hematitic Siliceous Iron Ore (HSIO), Lessee has proposed to drill another 39 core bore holes during the year 2022-23.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1666580 to N1667405 E661695 to E662450	N 1666580to N1667400 E661697to E662449	Development is carried out carried out within the proposed limit.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil-0 Overburden-2 Mineral-9	Top Soil-0 Overburden-2 Mineral-9	Separate benches maintained as proposed.
2c	Stripping ratio or ore to OB ratio	1:0.09	1:0.085	Ore: 1.94 million tones. OB: 0.199 million tones.
2d	Quantity of topsoil generation in m3	No Proposal.	NIL.	Working is done in the already broken area.
2e	Quantity of overburden generation in m3	1,66,315	1,62,382	About 98% of the proposed waste generation is reported as achieved.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development works are carried out within the proposed grid limits and Benches are systematically maintained as per the approved proposals.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	One pit is proposed for production between N 1666580-N 1667405, E 661695-E 662450
3b	Quantity of ROM mineral production proposed	1940000 Tonnes	1898370Tonnes	Production & Development achieved in accordance to the Revision of Production Limit from Monitoring Committee vide letter no. MC/R&R/2021-22 dated 28.07.2021.
3c	Recovery of sailable/usable mineral from ROM production	1940000 Tonnes	1898370 Tonnes	The entire ROM produced is saleable and proposed 100% recovery.

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3d	Quantity of mineral reject generation	No Proposal.	NA	---
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal.	NA	---
3f	Quantity of sub grade mineral generation.	No Proposal.	NA	---
3g	Grade of sub grade mineral generation	No Proposal.	NA	THV of Normal Ore 45%Fe and for HSIOis 35% Fe.
3h	Manual / Mechanised method adopted for segregating from ROM	Fully Mechanized.	Fully Mechanized.	The segregating ofof ROM Ore is bymechanized method. Crushing & Screening.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal.	NA	----
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting proposed.	Yes.	Drilling & blasting carried out for hard strata with spacing & Burden 3.0m & 3.5m respectively.
3k	Provision of mining machineries in mineral benches	WAGON DRILL -1 COMPRESSOR-1 EXCAVATORS-16 WHEEL LOADERS-10 DUMPERS-23 EXTEC SCREENS-4 4 CRUSHERS-5	WAGON DRILL -1 COMPRESSOR-1 EXCAVATORS-16 WHEEL LOADERS-11 DUMPERS-23 EXTEC SCREENS-4 CRUSHERS-2 WATER TANKERS-7	Machineries as proposed are engaged in the mineral benches.
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	The Benches are developed as per the proposals by maintaining the proposed height and width as per the approved Mining Plan.
3m	Total area covered under excavation/pits	38.3141	39.808	As per the AR for 2021-2022.

3n	Ore to OB ratio for the pit/mine during the year.	1:0.09	1:0.085	In Tonnes.
3o	Total area put in use under different heads at the end of year	(i) Already exploited & abandoned by opencast (O/C) mining 0.00 (ii) Covered under current (O/C) Workings 38.3141 (iii) Reclaimed/Rehabilitated 0.000 (iv) Used for waste disposal 4.9147 (v) Occupied by plant, buildings, residential, welfare buildings 0.2124 (vi) Other Purpose (Area for Protective Measure, Bunds, Inactive dump stabilized with plantation, Safety) 15.9188 (vii) Work done under progressive mine closure plan during the year 0.000	(i) Already exploited & abandoned by opencast (O/C) mining 0.00 (ii) Covered under current (O/C) Workings 39.808 (iii) Reclaimed/Rehabilitated 0.000 (iv) Used for waste disposal 3.130 (v) Occupied by plant, buildings, residential, welfare buildings 0.17 (vi) Other Purpose (Area for Protective Measure, Bunds, Inactive dump stabilized with plantation, Safety) 16.2520 (vii) Work done under progressive mine closure plan during the year 0.000	Lease area utilization as at the end of Plan Period.

3p	Production of ROM mineral during the last five year period as applicable	2016-17: 0 2017-18: 426000 2018-19: 1480000 2019-20: 1480000 2020-21: 1940000 2021-22: 1898370 2021-22: 1940000 (In tonnes)	2016-17: 0 2017-18: 426000 2018-19: 1480000 2019-20: 1640000 2020-21: 1940000 2021-22: 1898370 (In tonnes)	Production & Development achieved as per Allotted Revision of Production Limit from Monitoring Committee vide letter no. MC/R&R/2021-22 dated 28.07.2021.
3q	General remarks of inspecting officers on method of mining etc.			The Mine is a fully mechanized mine and machineries as proposed are engaged for development, Production and segregation of ore.

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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)	Top soil -Nil Mineral Rejects-Nil	NA	Development during the year is within the already broken up area and therefore there is no top soil generation. Dumping of waste/OB is envisaged.
4b	Location of topsoil, OB and mineral reject dumps	WASTE DUMP N 1667090 to N 1667200 E 662090toE 662200	N 1667090 to N 1667190 N E 662094 to E 662200	Dumping of waste/OB is carried out at the proposed location by forming terraces.
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	One active dump and one inactive stabilized dump within ML. Apart from these dumps, BHQ is separately dumped at location N1667670-N1667700 & E661316-E661422.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump-1 N1667420 to N1667660 E661580 to E662050 Dump-2 N 1666970 to N 1667250 E 662050 to E 662300	Dump-1 N1667420 to N1667660 E661580 to E662050 Dump-2 N 1666970 to N 1667250 E 662050 to E 662300	Except the temporary BHQ dump, Both dumps are located outside the UPL.
4e	Number of active and alive dumps.	1 No.	1 No.	D2
4f	Number of dead dumps.	1	1	D1
4g	Number of dumps established.	1	1	D1
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	Retaining wall present along the toe of the dumps.
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	175 mtr	Though there was no proposal of construction, a retaining wall along the terracing in the side is constructed for safety of the dump terraces.
4j	Number of settling ponds	2 Nos	2 Nos	Total 11 SST were Constructed.
4k	Specific comments of inspecting officer on waste dump management			There is an old dump D1 which is stabilized. One active dump D2 is systematically terraced by maintaining the required slope and inactive slope parts are stabilized by plantation and geo-textiling.

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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	NA	There is no proposed area for Backfilling in FY 2021-22.
5b	Area under backfilling of mined out area	No Proposal.	NA.	Nil.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	NA	Nil
5d	Total area fully reclaimed and rehabilitated	No Proposal	NA	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Since the Ore persists at depth, no pit or pit area is proposed/achieved for backfilling.

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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).	Yes.	Submitted on 23.06.2022	Submitted on 23.06.2022
6b	Area available for rehabilitation (ha) .	No Proposal	NA	Nil
6c	afforestation done (ha).	0.05Ha	0.058 Ha.	
6d	No. of saplings planted during the year	500 sampling WML	WML - 580 saplings OML - 267 saplings Total - 847 Saplings	It is reported for 80% survival rate of plantation within the ML.
6e	Cumulative no .of plants	500 Saplings	4,29,409 plants	Appears to be in order.
6f	Any other method of rehabilitation	No Proposal	NA	Nil

6g	Cost incurred on watch and care during the year	No Proposal	Rs.9,40,005	Appears to be correct.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	No Proposal	NA	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	NA	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposal	NA	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	NA	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	NA	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal	NA	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal	NA	Nil

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	NA	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed in core zone & buffer zone.	Environmental monitoring carried out in core zone & buffer zone on monthly basis	Environmental monitoring is carried out by Mineral Engineering Services, Mining & Environmental Engineers, Bellary. And readings are observed to be within the permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			As proposed the afforestation is reported in the safety zone as gap filling and also along the slope of the dumps.

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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 wise sorting proposed within the lease area.	Crushing and screening is done at Mine site for separation of lumps & fines.	2 units of dry crushing & screening plants.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Grade wise sorting proposed Mechanically with help of Crusher & Screening plant.	Grade wise sorting is carried out Mechanically by deploying 2 Crushers & 4 Screening plants.	Grade wise & size wise sorting of Mineral is carried out Mechanically by deploying 2 Crushers & 4 Screening plants.

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7c	Different grade of mineral sorted out at mines.	0-55% 55-58% 58-60% 60-62% 62-65% +65%	Yes. Lumps 55-58%- 4000 58-60%- 8000 60-62%- 32000 62-65%- 120000 65% and above- 204000. Fines: 0-55%-76000 55-58%- 136000 58-60%- 84000 60-62%- 80000 62-65%- 320000 65% and above- 834370. Are graded and sorted.	Grade wise sorting done as per buyer requirements.
7d	Any beneficiation process at mines	No proposal	NIL	No beneficiation is carried out. The ore is segregated grade wise and size wise by engaging mobile crusher & screening
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation is carried out. The ore is segregated grade wise and size wise into lumps and fines at mine site by engaging mobile crusher & screening.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	N.A	No top soil generated during FY 2021-22 as the development work in the mine is carried out in the already broken up area.
8b	Concurrent use or storage of topsoil	No Proposal	N.A	No top soil generated during FY 2021-22.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	WASTE DUMP N 1667090 to N 1667200 E 662090 to E 662200	N 1667090 to N 1667190 E 662094 to E 662200 BHQ temporarily dumped within the the UPL.	Waste and BHQ dumped separately in the locations as proposed.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	N.A	---
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Dump slopes are stabilized by way of plantation.	--
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation proposed Inactive slopes on the Active Dump D-2.	Plantation is done on Inactive slopes on the Active Dump D-2 & outside the lease area & maintained regularly.	Plantation as proposed during the year is done and So far cumulatively 4,29,409 saplings reportedly is planted.
8g	Survival rate	80 %	80 %	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on roads to control airborne dust.	Water sprinklers & water tanks are regularly used on roads to control airborne dust.	7 Water tankers deployed. (6 No.-8 kl & 1 No.-12 KL)
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around the mine is good and all efforts are taken in its maintenance.

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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 July -2022 A.R. Submitted up to 2021-22.	A.R submitted on 24.06.2022

- 9b Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager Sri. Nishanth BhanudasNatiye -Mines Manager Sri. Veeresh Kumar K.J - Geologist Sri. Govinda Rao -Mining Engineer Verified and found all the Statutory persons were present on the day of inspection.
- 9c Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. Covered under current (O/C) workings - 39.808 Ha , Used for waste Disposal - 3.130 Ha. Occupied by plant, buildings, residential, welfare buildings- 0.17 Other purpose (Inactive Dump, Roads, Stock yard, green belt, environment production work) - 16.252 Verified and found to be in order.
- 9d Scrutiny of Annual return on afforestation Within lease area= 588 saplings Outside lease Area = 267 saplings @ 80% survival rate Verified and appears to be in order.
- 9e Scrutiny of Annual return on mineral reject generation (Grade and quantity) NIL. No mineral rejects are reported for the year.
- 9f Scrutiny of Annual return on ROM stock and/or graded ore .

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production =Rs.2898.92 /ton, Lumps: Below 55 % - 2806.00 Rs. 55 to 58% - 5334.85 Rs/ton. 58 to 60 % - 5618.32 Rs/ton. 60 % to below 62 % Fe: 5715.30 Rs/ton, 62 % to below 65 % Fe: 6672.43 Rs/ton. 65 % Fe above: 7866.04 Rs/ton. Ex -mine price: Fines: Below 55 % - 2028.24 Rs/ton. 55 to 58% - 3064.95 Rs/ton., 58 to 60 % - 4262.83 Rs/ton. 60 % to below 62 % Fe: 4023.45 Rs/ton, 62 % to below 65 % Fe: 6311.19 Rs/ton. 65 % Fe above: 6921.20 Rs/ton.	Capitalized Expenditure on exploration and DMF/NMET paid details have not been furnished and accounted for arriving at the cost of production. Violation issued.	Violation issued.
9h	Scrutiny of Annual return on fixed assets	Rs.107133825 including plant machinery and transport equipment	Under this item value of Land is accounted for whereas entire Mining Lease area is a Forest Land.	Violation issued.

9k      Scrutiny of      WAGON DRILL -1 Verified during  
Annual return on      COMPRESSOR-1      inspection and found to  
mining      EXCAVATORS-16      be in order.  
machineries      WHEEL LOADERS-  
                         11  
                         DUMPERS-23  
                         EXTEC SCREENS-  
                         4  
                         CRUSHERS-2  
                         WATER TANKERS-  
                         7

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**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 45(7)(a)	09/09/2022				

**Date :**

**(SURESH PRASAD)**

Indian Bureau of Mines