

**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 : **OM5**) **Dr.OMKESHA MURTHY.M.G**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Mr. Nishant B. N. -Mines Manager, Mr. Veeresh Kumar K
Official with
Designation
- (iv) Date of Inspection : 14/03/2023
- (v) Prev.inspection date : 23/08/2022

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 M.L.No.2141**
- (b) **Lease area** : **~~82.55~~-59.36**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **~~23/01/2012~~-23.01.2042**
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 : RAGHUNANDAN R B, Full Time
 Qualification : B.E. MINING
 Appointment/ : 26/12/2022
 Termination date

Geologist

Name : Veeresh Kumar K.J, Full Time
 Qualification : M.Sc Geology
 Appointment/ : 01/06/2022
 Termination date

Manager

Name : NISHANTH BHANUDAS NATIYE
 Qualification : FCC
 Appointment/ : 16/08/2021
 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	10 Trail Pits 39 Core Drilling Boreholes - 4030 mtrs	12 Trail pits Completed. 18 core Drilling Boreholes with 1835 mtrs completed.	Exploration target not completed violation issued for the same
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	12 Trail pits done Inhouse.	Core Drilling Borehole is in under progress. Expenditure on exploration needs to be reported in the AR for the reporting year, which is due for submission.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	59.36 Ha.	However, 39 core drilling Boreholes are proposed for the year 2022-23 to check the depth persistence of Ore
1e	Balance reserve as on 01/04/20	No Proposal	59.456 million Tons	As per Annual Returns 2021-22. For the year 2022-23 AR is due for submission.
1f	General remarks of inspecting officers on geology, exploration etc			Entire lease area explored to G1 level as per UNFC/MEMC rule

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1667405 to N1666503 E661675 to E662493	As per proposal	Work carried out within the proposed limit.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil-0 Overburden-2 Mineral-9	As per proposal	

2c	Stripping ratio or ore to OB ratio	1:0.118404	1:0.1189	
2d	Quantity of topsoil generation in m3	No Proposal	NIL	
2e	Quantity of overburden generation in m3	2,84,169	2,39,414	Less due to Revision of Production Limit from Monitoring Committee vide letter no. MC/R&R/2022-23 dated 27.02.2023.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Systematic development carried out as per the approved proposals

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	2400000Tonnes	2013000 Tonnes	Less achievement due to Revision of Production Limit from Monitoring Committee vide letter no. MC/R&R/2022-23 dated 27.02.2023.
3c	Recovery of sailable/usable mineral from ROM production	2400000Tonnes	2013000 Tonnes	Less achievement due to Revision of Production Limit from Monitoring Committee vide letter no. MC/R&R/2022-23 dated 27.02.2023.
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
3h	Manual / Mechanised method adopted for segregating from ROM	Fully Mechanized	The Method of working is opencast Mechanized method.
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	As per proposal
3k	Provision of mining machineries in mineral benches	EPIROC ICM 26 DRILLING MACHINE - 1 EXCAVATORS-16 WHEEL LOADERS-10 DUMPERS-23 EXTEC SCREENS-4 CRUSHERS-2 WATER TANKERS-7	As per proposal
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	As per proposal
3m	Total area covered under excavation/pits	40.2273	As per proposal
3n	Ore to OB ratio for the pit/mine during the year.	1:0.118404	1:0.1189
3o	Total area put in use under different heads at the end of year	59.36	As per proposal

3p	Production of ROM mineral during the last five year period as applicable	2016-17: 0 2017-18: 426000 2018-19: 1480000 2019-20: 1640000 2020-21: 1940000 2021-22: 1940000 2022-23: 2400000 (Intonnes)	2016-17: 0 2017-18: 426000 2018-19: 1480000 2019-20: 1640000 2020-21: 1940000 2021-22: 1898370 2022-23*: 2013000 (Intonnes)	Final Production figures to be verified in AR for the year 2022-23 the reporting year, which is due for submission.
3q	General remarks of inspecting officers on method of mining etc.			Mine development and production achievement as per the approved document

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No Top soil	As per proposal	
4b	Location of topsoil, OB and mineral reject dumps	WASTE DUMP N 1666960 to N 1667250 E 662040toE 662370	As per proposal	
4c	Number of dumps within lease area and outside of lease area	2 No's -Within the Lease area	As per proposal	One active dump and one inactive dump within ML.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump-1 N1667420 to N1667660 E661580 to E662050 Dump-2 N 1666960 to N 1667250 E 662040 to E 662370	Maintained As per proposal	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	
4i	Length of Retaining wall or garland drain all along dumps	RW - 153 mtr GD - 180 mtr	As per proposal	
4j	Number of settling ponds	No Proposal	NA	Total 11 SST were Constructed.
4k	Specific comments of inspecting officer on waste dump management			Aesthetic beauty of the mine was maintained.

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 Proposal	NA	There is no proposed area for Backfilling in FY 2022-23
5b	Area under backfilling of mined out area	No Proposal	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	NA	
5d	Total area fully reclaimed and rehabilitated	No Proposal	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Dump management and the implementation are as per the approved mining plan document

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).	Yes.	Submitted on 23.06.2022 for the year 2021-2022	For the year 2022-23 due for submission
6b	Area available for rehabilitation (ha) .	No Proposal	NA	
6c	afforestation done (ha).	0.2115 Ha	As per plan	Inactive slope of Active Dump D2
6d	No. of saplings planted during the year	700 sampling WML	As per plan	
6e	Cumulative no .of plants	700 Saplings	4,30,272 plants	* Needs to be verified in the AR 2022-23 due for submission
6f	Any other method of rehabilitation	No Proposal	NA	
6g	Cost incurred on watch and care during the year	No Proposal	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	NA	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	NA	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposal	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	NA	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal	NA	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal	NA	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	NA	
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	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP work carried out satisfactorily by the lessee

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 as per the approved MP in practice for Lump and Fine seperation	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 was done Mechanically with help of Crusher & Screening plant.	

7c	Different grade of mineral sorted out at mines.	0-55% 55-58% 58-60% 60-62% 62-65% +65%	0 -55 % 55-58% 58-60% 60-62% 62-65% Are graded and dispatched.	Grade wise dispatch of ore reported for the year so far
7d	Any beneficiation process at mines	No proposal	NIL	Only Dry process by mobile crusher & screening
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral conservation aspects were taken care by the lessee in the mine and there were no beneficiation in practice/proposal in the mine.

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 2022-23.
8b	Concurrent use or storage of topsoil	No Proposal	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	WASTE DUMP N 1666960 to N 1667250 E 662040 to E 662370	As per approved proposals	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	NA	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation proposed Inactive slopes on the Active Dump D-2,	Plantation was done Inactive slopes on the Active Dump D-2, Safty zone area, Gap filling & outside the lease area & maintained regularly.	So far 4,30,272 saplings planted.
8g	Survival rate	No Proposal	80% reported	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on roads to control airborne dust	Water sprinklers & water tanks were deployed in the mine on roads to control airborne dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty of the mine maintained

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	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. Nishant BhanudasNatiye -Mines Manager. Sri. Raghunandan R B -Mining Engineer. Sri. Veeresh Kumar K.J - Geologist.	Statutory persons were appointed by the lessee. Both Mining Engineer and Geologist appointed 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- 40.2273 Ha, Used for waste Disposal - 3.40 Ha. Occupied by plant, buildings, residential, welfare buildings- 0.15 Other purpose (Inactive Dump, Roads, Stock yard, green belt, environment production work) - 15.5827	To be Verified with AR for the year 2022-23, which is due for submission.	
9d	Scrutiny of Annual return on afforestation	Within lease area= 768 saplings Outside lease Area = 95 saplings @ 80% survival rate	Plantation done has been verified during inspection, information furnished ok	Within lease area= 768 saplings Outside lease Area = 95 saplings @ 80% survival rate
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Due for submission for the year 2022-23	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	No mineral rejects are reported for the reporting year.	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production =Rs.2962 /ton, Lumps: Below 45-51 % - 00.00 Rs. 51-55 % - 2806 Rs/ton. 55 to 58% - 2392.6 Rs/ton. 58 to 60 % - 3285.43 Rs/ton. 60 % to below 62 % Fe: 4219.84 Rs/ton, 62 % to below 65 % Fe: 4582.23 Rs/ton. 65 % Fe above: 4727.93 Rs/ton. Ex -mine price: Fines: Below 45-51 % - 1046.27 Rs/ton. 51-55 % - 874.19 Rs/ton. 55 to 58% - 1829 Rs/ton., 58 to 60 % - 2707.65 Rs/ton. 60 % to below 62 % Fe: 2069.13 Rs/ton, 62 % to below 65 % Fe: 2677.60 Rs/ton. 65 % Fe above: 3321.54 Rs	Due for submission for the year 2022-23
9h	Scrutiny of Annual return on fixed assets	Rs. 91489558 including plant machinery and transport equipment	AR Due for submission for the year 2022-23

9k	Scrutiny of Annual return on mining machineries	EPIROC ICM 26 DRILLING MACHINE - 1 EXCAVATORS-15 WHEEL LOADERS- 10 DUMPERS-23 EXTEC SCREENS- 4 CRUSHERS-2 WATER TANKERS- 7	To be verified, AR Due for submission for the year 2022-23
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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 11(1)	11/04/2023	24/05/2023				

Date :

(Dr.OMKESHA MURTHY.M.G)

Indian Bureau of Mines