

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

Check up inspection REPORT

Bangalore regional office

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

Mine code : 30KAR03101

- (i) Name of the Inspecting : **M003**) **G C MEENA**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Shri Manjunath, Mines manager.
Official with
Designation
- (iv) Date of Inspection : 19/01/2018
- (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 : Sri Kumaraswamy Mineral Exports Pvt Ltd
correspondance 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	42 BH	Nil	Mining operation was under suspension from 2011 & resumed from 28/8/2017.
1b	Exploration over lease area for geological axis 1 or 2	G1=0.30 ha, G2=5.45ha, & G3=26.72ha.	not undertaken due to non working at that time	Lessee unable to undertake due to the reasons indicated.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2 & G3 comes to 5.45 +26.72 ha to convert to G1.	74 bore holes proposed.	it is reported exploration started on 16/10/18 to prove the category G2, & G3.
1e	Balance reserve as on 01/04/20	7637619t	7637619t	same as above.
1f	General remarks of inspecting officers on geology, exploration etc	yes proposed	As per the proposals, things are being carried out in the ML area.	yes as above.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Between section L-L' to O-O', N1666788-1666912 E662095-662250	During the year 2016-17, no work undertaken, but started in 28/8/17	But during the day of inspection, mine was in operation as per the 2017-18 proposals.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No benches in top soil & 5 benches in ore.	Work is in progress in mineral benches only.	For the year 2016-17, no work, but in the year 2017-18, work is in progress as per the proposals.
2c	Stripping ratio or ore to OB ratio	1:0.13	No work during the year 2016-17.	only in 2017-18, the ratio is 1:0.13
2d	Quantity of topsoil generation in m3	No top soil.	no generation of top soil.	tes no top soil.

2e	Quantity of overburden generation in m3	71488m3/ 142976t	nil in 2016-17, 17-18 under progress.	Yes above.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	though the proposals given for the year 2016-17.	Mining operation started only on 28/8/17, and the work progressed.	yes as above.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit only, of size=900mx 140m x67m, working mRL is 945.5m to 912.5m, length of advancement =223m & area =2.51 ha	Not worked during the year.2016-17.	Worked started on 28/8/17 and nothing before.
3b	Quantity of ROM mineral production proposed	640000t	nil	nil
3c	Recovery of sailable/usable mineral from ROM production	640000t	nil	nil
3d	Quantity of mineral reject generation	142976t	nil	nil
3e	Grade of mineral rejects generation and threshold value declared.	35%Fe & threshold value is - 45%Fe.	Same as above, but mining only in 2017-18 & nt in 2016-17.	Yes not in 2016-17 & started in 2017-18.
3f	Quantity of sub grade mineral generation.	NA	nil	nil
3g	Grade of sub grade mineral generation	Not applicable.	NA	nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized.	nil	nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	nil	nil	nil
3j	Provision of drilling and blasting in mineral benches	yes proposed.	nil	nil, in 2016-17 & started in 2017-18 on 28/8/17.
3k	Provision of mining machineries in mineral benches	yes proposed.	In the year 2017-18, machineries were used for drilling & blasting for developement & production.	Normal work started from 28/8/17.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes propsoed.	Carried out as proposed from 28/8/17 onwards.	Yes as above the operation were resumed and nt beforethat.
3m	Total area covered under excavation/pits	2.51 ha	2.51 ha.	as above
3n	Ore to OB ratio for the pit/mine during the year.	1:0.13	1:0.13	same as above.
3o	Total area put in use under different heads at the end of year	47.696 ha	47.696 ha.	Same as above.
3p	Production of ROM mineral during the last five year period as applicable	2011-12=1998365t, 2012-13=640000t, 2013-14=640000t, 2014-15=640000t, 2015-16=640000t, & 2016-17=640000t.	2011-12=263356t, 2012-13=nil, 2013-14=nil, 2014-15=nil, 2015-16=nil, & 2016-17=nil	Production banned from 2011 to 2014.
3q	General remarks of inspecting officers on method of mining etc.	NIL	Till 27/8/17 no work was in the mine & 28/8/17 onwards started.	Yes because of ban of Supreme court order the mine was not operated & due to other clearance.

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Nil	nil	nil
4b	Location of topsoil, OB and mineral reject dumps	waste dump N1667436-1667568, E661900-662037.	no work.	nil
4c	Number of dumps within lease area and outside of lease area	two numbers.	nil	execept the movement of subgrade ores through Monitoring committee.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Active waste dump N1666970 to N1667095 E662180 to E662304.....In active dumps= N1667390 to N1667658 E662055 to E661835.	No changes, since no work	nil
4e	Number of active and alive dumps.	One number	One only.	yes one only.
4f	Number of dead dumps.	One only.	one only	one only.
4g	Number of dumps established.	One only.	one	one.
4h	Whether Retaining wall or garland drain all along dumps are there.	yes provided.	yes provided.	yes provided.
4i	Length of Retaining wall or garland drain all along dumps	RW=443m & GD=nil	as above during the year 2016-17. 2799m completed as per R & R.	as above.
4j	Number of settling ponds	No proposals.	Nil	nil
4k	Specific comments of inspecting officer on waste dump management	Yes proposed.	Since the active mining operation has not started, there is no any significant changes in the mine.	Since the active mining operation yet to start.

Solid Waste Management - Backfilling:

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 proposals.	nil	nil
5b	Area under backfilling of mined out area	No proposal.	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	no proposal & no area is matured for back filling.

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 given	Not submitted	the mine started only after 28/8/17.
6b	Area available for rehabilitation (ha) .	Not proposed	nil	nil
6c	afforestation done (ha).	not proposed.	2.49 ha done in safety zone, 1.54 ha in dump, 490nos within & also out of lease.	Plantation undertaken both within & outside.
6d	No. of saplings planted during the year	not proposed.	undertaken on the dumps and on the safety zone.	as above.
6e	Cumulative no .of plants	not proposed.	28505 nos.	as above undertaken.
6f	Any other method of rehabilitation	no proposals.	nil	nil

6g	Cost incurred on watch and care during the year	Not proposed.	Rs. 18,75,000/-	undertaken after the year 2016-17.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Not proposed	nil	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	not proposed	nil	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on 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.	0.356 ha.	as above.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	dump slopes	dump slopes undertaken with 730 nos. plantation.	Yes undertaken.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	gap filling plantations.	770 nos.	as above.
6p	Compliance of environmental monitoring (core zone and buffer zone)	no proposals.	nil	nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	given proposals in certain items.	Mining operation started only after the period 28/8/17, and nothing before that.	No any operation before 27/8/17.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	proposed	started after the date 28/8/17, and nothing before the date due to late commisssioning the operations.	nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized.	mechanized after the 28/8/17	yes as above.
7c	Different grade of mineral sorted out at mines.	yes proposed	yes carried out as per the proposals after the date 28/8/17.	nil
7d	Any beneficiation process at mines	Dry process only.	Only dry process method & nothing of wet.	Yes reported is correct.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	proposed for systematic operation.	yes it is being carried out in the mine.	satisfactory.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposals.	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)	Yes proposed.	during the year 2016-17, no operation, but in 2017-18, operation started & following the proposed location.	yes 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 at this stage.	nil	nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	safety zone, gap filling & OB dump slopes.	As proposed, the plantation work is being carried out in phased manner.	yes it is followed in the mine.
8g	Survival rate	80%	60-70%	yes as above is being followed.
8h	Water sprinkling on roads to control airborne dust	Yes proposed	water tanker is used for water sprinkling on the roads & to control the dust.	yes it is followed.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	proposed.	proposed things are being followed in stages	satisfactory work in the mine.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	yes submitted 2016-17 & also monthly returns.	Mines manager is P. Manjunath & the mining engineer & the geologist are also appointed.	satisfactory.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer & Geologist not appointed during the year 2016-17	But during the year 2017-18, appointed Mining engineer & Geologist.	yes during the year 2017-18, appointed the above POSTS.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	WORKING PITS=34.986 HA, reclamation & rehabilitation land = 4.676 ha, waste disposal=3.020 ha 7 occupied by plants, building etc.=5.561 ha.	the reclaimed & rehabilitated land extent is given wrongly.	violation will be issued for attending correction.
9d	Scrutiny of Annual return on afforestation	within the ML area =286 nos. with 80% survival & 490 nos. outside the ML area with same 80% survival.	this could be observed in the field sduring the site visits.	yes it was observed and found to be exist in the area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil	nil	nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	nil	nil	nil, during the yaer 2016-17 no mining operations.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	rs. 1330/-t of ore for 55- <58%Fe lumps & for fines nil. sale price is rs. 1400//t. & cost of production is nil.	Whatever reported is found to be correct.	For the year 2016-17 only and not for the year 2017-18.
9h	Scrutiny of Annual return on fixed assets	value of fixed assests is Rs. 32587838/-	Given in respect of mine, beneficiation, workshop etc.	yes correct.

9k	Scrutiny of Annual return on mining machineries	Details for machineries are furnished, which are available.	yes given for the available machineries.	yes asa bove.
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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
Rule 45(7)	08/06/2018				

Date :

(G C MEENA)

Indian Bureau of Mines