

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

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KNT/BLR/MN/39/BNG

Mine code : 40KAR03014

- (i) Name of the Inspecting : **P005**) **C.PARAMESHWARAN**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri. Gnanaprakasam, Mine Manager & Geologist- J. Sub
Official with
Designation
- (iv) Date of Inspection : 18/10/2015
- (v) Prev.inspection date : 05/02/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAMGAR M.L.NO. 1952**
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BELLARY
- Village : RAMGAD
- Taluka : SANDUR
- Post office : SANDUR
- Pin Code :
- FAX No. : 08395- 271066
- E-mail : eps@sandurgroup.com
- Phone : (08395)- 271025,271029,2710
- (f) **Police Station** : SANDUR
- (g) **First opening date** : 01/01/1954
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/s SMIORE LTD, DEOGIRI(PO),
SANDUR,
BELLARY-583112.
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : IRON ORE Associated
MANGANESE ORE Main

5. Name and Address of the

Lessee : SANDUR MANGANESE & IRON ORES LTD
 DEOGIRI (PO)-583 112 SANDUR
 BELLARY KARNATAKA
 Phone:08395-271025/28/29/40
 FAX :08395-271066

Owner : S.R.SRIDHAR, ED(Mines) of M/s SMIORE LTD
 The Sandur Manganese & Iron
 Ore LTD Deogiri-583 112 Tq-
 Sandur BELLARY KARNATAKA
 Phone: 08395-271025/28
 FAX : 08395-271066

Agent : S.R.SRIDHAR
 BELLARY KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : Jayashankar D, Full Time
 Qualification : BE Mining
 Appointment/ : 24/05/2013
 Termination date

Geologist

Name : J.Subramanyam, Full Time
 Qualification : M.Sc. Geology
 Appointment/ : 01/12/2010
 Termination date

Manager

Name : L.GYANAPRAGESAM
 Qualification : B.SC, FCC
 Appointment/ : 27/09/2001
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	28/04/1992
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	15/01/2013
	:	Renewal under rule 22 MCR1960	05/12/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	no proposals as such		

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1667200N TO 1667600N AND 659800E TO 660200E	1667200N TO 1667600N AND 659800E TO 660200E	The location are indicated in the approved document and the boundary pillars were checked as per the plates and found that the pillars were intact.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	separate benches were followed in top soil, OB & mineral benches	yes separate benches were followed.	yes followed.
2c	Stripping ratio or ore to OB ratio	1:52.4	1:46.41	huge waste ratio.
2d	Quantity of topsoil generation in m3	nil	nil	nil
2e	Quantity of overburden generation in m3	184642 m3	158373	nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	proposed for systematic working.	yes lessee company doing heavy OB development.	presently only quarry in operation.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	one pit, in M block-Neerlabhi	one pit only in M block(Neerlabhi)	as above.
3b	Quantity of ROM mineral production proposed	8095t	7748.32t	nil

3c	Recovery of sailable/usable mineral from ROM production	7400t	7302.32t	nil
3d	Quantity of mineral reject generation	nil	nil	nil
3e	Grade of mineral rejects generation and threshold value declared.	nil	nil	nil
3f	Quantity of sub grade mineral generation.	695t	446t	nil
3g	Grade of sub grade mineral generation	10-20%mn	10-20%mn	nil
3h	Manual / Mechanised method adopted for segregating from ROM	manual	manual	nil, segregation only manuallis possible.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	proposed	studies are being carried out.	under process
3j	Provision of drilling and blasting in mineral benches	yes provision with jack hammer and deep hole blasting depending on the height of the bench height.	Jack hammers & long hole drilling adopted.	yes at times varies.
3k	Provision of mining machineries in mineral benches	yes used	poclaim laoding machines are used for loading & trucks and dumpers are used for transportation.	yes machines are used and manual labors for sorting.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	4-7m height & width 5-25m	yes suitable for machines to work.	nil
3m	Total area covered under excavation/pits	3.5 ha	3 ha	within that area it is progressing.

3n	Ore to OB ratio for the pit/mine during the year.	1:52.4	1:46.41	as it is.
3o	Total area put in use under different heads at the end of year	45.395 ha mining, 42.36 ha in ob dump, storage-.14 ha, 0.845 ha in infrastructure , roads=4.68 ha and 46.91 virgin for future use.	as proposed in the approved document, but the present mining is in 3.5 ha in one pit, back filling in 0.75 ha. and for subgrade=0.7 ha.	yes as it is maintained.
3p	Production of ROM mineral during the last five year period as applicable	116650	30269t achived.	altogether.
3q	General remarks of inspecting officers on method of mining etc.	method of mining proposed for systematic working.	work is in progress satisfactorly.	yes satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, proposed for separate dumping of top soil, OB & mineral rejects	yes separated dumping is followed whatever is excavted from the designated pit.	it is followed.
4b	Location of topsoil, OB and mineral reject dumps	OB=1666900N to 1667300N & 660000E to 660400E, Sub grade=1667810N to 1667960N to 659910E to 660030E	same location as bove is followed. OB=1666900N to 1667300N & 660000E to 660400E, Sub grade=1667810N to 1667960N to 659910E to 660030E	yes it is followed.
4c	Number of dumps within lease area and outside of lease area	yes proposed as back filling	back filling is done in the year 2014-15 and continued for the present year 2015-16.	yes continued within the M-block in part as back filling.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside the UPL.	Outside the UPL.	yes it is outside the UPL, because the area got exhausted.
4e	Number of active and alive dumps.	1 no.	one only.	only one.

4f	Number of dead dumps.	nil	nil	nil
4g	Number of dumps established.	partly stabilized.	yes partly back filled.	yes in part of the back filled area.
4h	Whether Retaining wall or garland drain all along dumps are there.	yes all along the dumps retaining wall provided.	yes provided all along the dumps.	provided.
4i	Length of Retaining wall or garland drain all along dumps	proposed as per the R & R document.	RW=179m GD=1121m.	as above.
4j	Number of settling ponds	one only	one only	nil
4k	Specific comments of inspecting officer on waste dump management	yes proposed	since the waste is managed through back filling in the exhausted portion of the ML area.	yes satisfactory

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.	in one of the block-M, part of the pit is exhausted that is used as back filling permanently.	after complete extraction of the pit, the pit is started back filling.	after confirming through bore holes, back filling started.
5b	Area under backfilling of mined out area	0.66 ha in part of M-block.	0.66 ha only in part.	nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	in a phased manner.	in a phased manner, after attaining certain heights, the area is filled with plantations.	yes planted only after attaing certain heights.
5d	Total area fully reclaimed and rehabilitated	nil	under progress.	yes under progress.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	proposed in approved document.	yes accordingly it is progressive.	satisfactory.

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 subitted for the year 2014-15	yes submitted correctly.	yes
6b	Area available for rehabilitation (ha) .	nil	nil	nil
6c	afforestation done (ha).	nil	nil	nil
6d	No. of saplings planted during the year	nil	geotextile used in part of the area.	yes as above.
6e	Cumulative no .of plants	nil	nil	nil
6f	Any other method of rehabilitation	nil	nil	nil
6g	Cost incurred on watch and care during the year	not indicated in the format.	however, cost involued for other expemditure is given.	2014-15 is rs. 342.307 lakhs.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.66 ha	0.66 ha	only so much area.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.66 ha only.	0.66 ha area only.	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	0.15 ha through geotextile cover	as above through geotextile coverings.	nil
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	nil
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)	yes proposed for 2014-15 for 11 lakhs.	undertaken in core & buffere zone for 11 lakhs.	yes undertaken.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Though big area as per the ML area, but the working is restricted by CEC in one area with megre production.	within the R & R approval the production limit is maintained.	mine need to work to the fullest capacity.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	yes within the lease area.	within the lease area is sorted and dispatched.	yes within ML area.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual method through manganese & Iron is through dry screening.	yes, Manual method through manganese & Iron is through dry screening.	yes.

7c	Different grade of mineral sorted out at mines.	yes different grades at mines	mn=26-28, 28-30, 30-32, >32%mn.	sorted at mines
7d	Any beneficiation process at mines	nil	only dry screening.	nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	satisfactory with the present proposals.	yes satisfactory.	yes.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes whenever it is arised.	yes	at times.
8b	Concurrent use or storage of topsoil	yes at times it is possible.	at times used, other wise stored.	nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	provision are made.	presently only for OB	nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	yes OB are used in the exhausted area for back filling	yes used for back filling to restore the M-block partly.	nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	yes phased manner	yes phased restoration in the worked out area.	nil.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	it is complete forest area, already plantation are exist.	not necessary to undertake in the forest area.	nil
8g	Survival rate	nil	nil	nil
8h	Water sprinkling on roads to control airborne dust	uyes water sprayed wherever needed.	water sprayed wherever required.	satisfactory.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	small scale mining is in progress.	work is going systematically.	satisfactory

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	yes submitted regularly, AR for the year 2014-15.	submitted as per the format.	satisfactory
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	S/Sri. S.R. Sridhar, Mining Engineer, Satish K. Chougule-Geologist & L. Gnanapragasam mine manger.	yes all were present.	yes they were posted for that mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	current mining-44.50 ha, waste disposal=42.36 ha, plant & building etc.=4.98 ha, safety zone, plantation etc.=37.28 ha & work under PMCP=1.70 ha	whatever indicated are found to be satisfcatory.	yes.
9d	Scrutiny of Annual return on afforestation	25700 nos with 70% survival.	planted within the ML area.	yes on the dump side, office and other locations.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	during the year nil	cumulative figure for the mine is given as 15000t.	as above.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	openeing stock is 5802t, production is 7303.36t & closing stock is 5823.92t respectively. Grade is 25% to 35%Mn & 35-46%Mn.	yes whatever indicated could see in the mine.	yes systematically placed in the mine.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex-mine price is 5787/metric tonne of 25-35%Mn and Rs. 3696/metric tonne for 35-below 46% Mn.	the price indicated for higher grade is less price than the low grade price. The cost of production is Rs. 4901/t.	this need to be cjhecked.
9h	Scrutiny of Annual return on fixed assets	not reported.	yes not reported in the return.	nil
9k	Scrutiny of Annual return on mining machineries	the details of the mining machineries are given	whatever the machineries are used in the mine are reflected in the returns.	satisfactory.

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