

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

MCDR INSPECTION REPORT

Hyderabad regional office

Mine file No : AP/KNL/FE-58/HYD

Mine code : 30APR11024

- (i) Name of the Inspecting : **C\$10**) **Ch.Suseela**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri.T.V.Ramesh, Husband of the lessee
Official with
Designation
- (iv) Date of Inspection : 17/09/2016
- (v) Prev.inspection date : 21/05/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAMAKRISHNA(31.17 HA)**
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : SARPRAJPURAM
- Taluka : DHONE
- Post office :
- Pin Code :
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** :
- (g) **First opening date** : 01/01/1975
- (h) **Weekly day of rest** :
2. **Address for** :
- correspondance**
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : IRON ORE Main

5. Name and Address of the

Lessee : SREE RAMAKRISHNA MINERALS
VELDURTHY KURNOOL ANDHRA
PRADESH
Phone:
FAX :

6. Date of approval of Mining : Renewal under rule 24 MCR1960 02/03/2007
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	None	None	
1b	Exploration over lease area for geological axis 1 or 2	NIL	3 DTH	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Specific	2 lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	15.0 ha	15.0 ha	
1e	Balance reserve as on 01/04/20	222653 tonnes(111) 15,900 tonnes(122)	222653 tonnes(111) 15,900 tonnes(122)	
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	About half of the lease area has to be explored.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1722001-1722176 to E 180556-180892	Almost in the same grid.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, 3 m ht	Yes, 3 m ht	
2c	Stripping ratio or ore to OB ratio	1: 1.38	1: 1.38	
2d	Quantity of topsoil generation in m3	No top soil	No top soil	
2e	Quantity of overburden generation in m3	82870 tonnes	1500 tonnes	Production is much lesser than the targetted hence overburden is less.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine is not working from last one year. Development and excavation are being carried out simultaneously.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit and float ore zone. Band I & II, Reef ore in Section I-I' to F-F' and float ore in section E-E' to G-G'	One Pit and float ore zone. Band I & II, Reef ore in Section I-I' to F-F' and float ore in section E-E' to G-G'	
3b	Quantity of ROM mineral production proposed	60,000 tonnes	1,136 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	80% in Reef	80% in Reef	
3d	Quantity of mineral reject generation	No Proposal	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Not Applicable	
3f	Quantity of sub grade mineral generation.	3528 tonnes	350 tonnes	
3g	Grade of sub grade mineral generation	<45 to >35 Fe	<45 to >35 Fe	
3h	Manual / Mechanised method adopted for segregating from ROM	AOTFM	AOTFM	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	NIL	

3j	Provision of drilling and blasting in mineral benches	Yes	Yes, Once in fortnight with licenced holder.	
3k	Provision of mining machineries in mineral benches	JCB, Excavator, Tippers	JCB, Excavator, Tippers (8 ton capacity)	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 3 m ht.	Yes, 3 m ht.	
3m	Total area covered under excavation/pits	6.0 ha	6.0 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.38	1:1.38	
3o	Total area put in use under different heads at the end of year	9.65 ha	9.0 ha	
3p	Production of ROM mineral during the last five year period as applicable	2011-12---58047 t; 2012-13---58272 t ; 2013-14---59304 t ; 2014-15---59988 t ; 2015-16---60,000 t	2011-12---38257 t; 2012-13---31600 t ; 2013-14---26733 t ; 2014-15---27001 t ; 2015-16---1136 t	
3q	General remarks of inspecting officers on method of mining etc.			The mining operations are being carried out by deploying machinery like JCB, Excavator & Tippers under AOTFM category.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Back filling the exhausted pit by waste.	There are two dumps, one is in central part and the other is in North East.	Mineral is not exhausted in the pit hence back filling has not been done.

4b	Location of topsoil, OB and mineral reject dumps	Waste dumps in the central part and North East	Waste dumps in the central part and North East	
4c	Number of dumps within lease area and outside of lease area	Two dumps within the lease area	Two dumps within the lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	South side	South side	
4e	Number of active and alive dumps.	Two active dumps	Two active dumps	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	Contour drainage	NIL	Not accessible as there is no approach Road.
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	Waste dump is located in the designated area.

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.	There is a proposal of backfilling during the year 2015-16 in the exhausted pit. However, the area is not matured for reclamation.	NIL	There is a proposal of backfilling during the year 2015-16 in the exhausted pit. However, the area is not matured for reclamation.
5b	Area under backfilling of mined out area	Not Applicable	Not Applicable	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Applicable	Not Applicable	
5d	Total area fully reclaimed and rehabilitated	Not Applicable	Not Applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	_____	_____	There is a proposal of backfilling during the year 2015-16 in the exhausted pit. However, the area is not matured for reclamation.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual Report on PMCP has to be submitted.	Not submitted.	Violation of Rule 23 E(2) has been pointed out.
6b	Area available for rehabilitation (ha) .	No Proposal	NIL	
6c	afforestation done (ha).	0.05 ha	0.05 ha	
6d	No. of saplings planted during the year	500 plants	500 plants	
6e	Cumulative no .of plants	NIL	6000 plants	
6f	Any other method of rehabilitation	NIL	NIL	
6g	Cost incurred on watch and care during the year	Not Specific	Rs.50,000/-	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposal	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	NIL

6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring of environmental parameters has been proposed.	NIL	Since the mine is not under operation, monitoring of environmental parameters has not been carried out.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____	The mine is not in operation from last one year. Hence compliance of Progressive Mine Closure does not arise.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within lease area	Manual and Mechanical grading is being carried out withi lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual and mechanical	Manual and mechanical	
7c	Different grade of mineral sorted out at mines.	-40 mm, +20mm, +5mm, -15mm, -10mm	40-50 Fe%, 50-55 Fe%, <40% Fe	
7d	Any beneficiation process at mines	Crushing, Screening and sorting of ROM	Crushing, Screening and sorting of ROM	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	Mineral conservation is being followed by grading the mineral mechanically and manually.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil	NIL	

8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Two waste dumps	Two waste dumps within ML	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	There is a proposal of backfilling after the exhaustion of Ore.	NIL	Mineral not exhausted in the Pit.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	existing plantation-6000 additional plantation-500	existing plantation-6000 additional plantation-500	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	_____	The ML area is a hilly terrain in reserve forest having natural plantation inturn gives scenic beauty.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	_____	Monthly Returns submitted up to date. Annual Return for the year 2015-16 has been submitted.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri Khaja Babu, Mining Engineer	Sri Khaja Babu, Mining Engineer	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under pits-0 ha Reclaimed area-8 ha Area covered under dumps-0 ha	Area covered under pits-6.0 ha Reclaimed area- 0 Area covered under dumps-1.05 ha	Information furnished in the Annual Return seems to be wrong. The lessee was advised to submit the revised return.
9d	Scrutiny of Annual return on afforestation	Furnished as 1000 saplings	Actual about 500 saplings	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1136 tonnes	1136 tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value-< 55/- Rs.500/- (Lumps) < 55/- Rs.450/(fines) Cost of production- RS.155/- Ex.Mine Price- Rs.500/-	Data seems to be correct.	
9h	Scrutiny of Annual return on fixed assets	Furnished as Zero.	seems to be correct.	
9k	Scrutiny of Annual return on mining machineries	2 Tippers and other HEM Machinery.	Seems to be correct.	

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
Rule 13(1)	03/10/2016				
Rule 23E(2)	03/10/2016				
Rule 27(4)	03/10/2016				

Date :
(Ch.Suseela)

Indian Bureau of Mines