

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

**MCDR INSPECTION REPORT
Hyderabad regional office**

Mine file No : AP/VZNR/MN-22/HYD

Mine code : 40APR20010

- (i) Name of the Inspecting : **PR09**) **M.Pratap.Reddy**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : RAMESH SURVEYOR
Official with
Designation
- (iv) Date of Inspection : 25/05/2017
- (v) Prev.inspection date : 01/07/2011

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GARIVIDI**
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : VIZIANAGARAM
- Village : GARIVIDI
- Taluka : GARIVIDI
- Post office : SHREERAMNAGAR
- Pin Code :
- FAX No. :
- E-mail :
- Phone : 0892-282041
- (f) **Police Station** : GARIVID
- (g) **First opening date** : 01/12/1994
- (h) **Weekly day of rest** : SUN
2. **Address for** : M/S RBSSD&FN DAS
correspondance PO: SREERAM NAGAR,
DIST: VIZIAYANAGARAM-535 101
3. (a) **Lease Number** : APR1282
- (b) **Lease area** : 31.27
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 19/08/2014
4. **Mineral worked** : MANGANESE ORE Main

5. Name and Address of the

Lessee : M/S RBSSD &FN DAS
M/S RBSSD &FN DAS PO
SHREERAMNAGAR
DIST:VZIANAGARAM
VIZIANAGARAM ANDHRA PRADESH
Phone: NIL.
FAX : NIL

Owner : M/SRBSSD%F.N.DAS
SREERAMNAGAR(P),
VIZIANAGARAM VIZIANAGARAM
ANDHRA PRADESH
Phone: 0892-282041
FAX :

Agent : G.S.DHILLON
GARIVIDI VIZIANAGARAM DT.
VIZIANAGARAM ANDHRA PRADESH
Phone:
FAX :

Geologist

Name : S.MURALI KRISHNA, Full Time
Qualification : B.Sc(GEOLOGY)
Appointment/ : 29/03/2011
Termination date

Manager

Name : k.Siva Prasada Rao
Qualification : D.Min. Engg and II Class certificate
Appointment/ :
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	30/11/2010
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	14/03/2011
	:	MP modif under MCR 1960	03/06/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Exploration by means of 8 Boreholes were proposed in the year 2016-17	The said exploration has not been carried out.	Violation of Rule 11(1) has been pointed out
1b	Exploration over lease area for geological axis 1 or 2	G1 level of Exploration	Exploration is being under progress to convert the scale of exploration from G2 level to G1 Scale.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such details have been proposed.	The Lessee company itself is carrying out the exploration.	The cumulative expenditure so far incurred is Rs.18,32,700/-
1d	Balance area to be explored to bring Geological axis in 1 or 2	0.6 ha	-	Exploration being under progress.
1e	Balance reserve as on 01/04/20	4,83,204 T	4,83,204 T	There is no production since the date of estimation of reserve.
1f	General remarks of inspecting officers on geology, exploration etc	Archean terraaain with Khondalite host rock for Manganese mineralisatio n with proposed e G1 scale of exploration.	It is Metamorphic terrain of Arechean era consisting of Khondalite which is hosting Manganese mineralisation. The exploration activity is under progress to covert it into G1 scale of exploration.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It is proposed - to carry out development cum production between section lines F-F', G-G' &H-H'		No development cum production could be done during the year 2016-17 as the mining operations were held up for want of Environmental Clearence(EC)

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed.	-	Seperate benches for soil, OB and Ore have already been formed.
2c	Stripping ratio or ore to OB ratio	1:0.69	-	No mining operations cum production could take place in the year 2016-17 for want of EC.
2d	Quantity of topsoil generation in m3	225 cum	-	
2e	Quantity of overburden generation in m3	11,864 cum	-	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The development cum production has been proposed between section lines F-F' to H-H'	-	No development cum production could be done since 2013-14 to till date for want of Environment Clearance.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	-	There exists one pit only.
3b	Quantity of ROM mineral production proposed	30,008 T	Nil	No Production as said could take place for want of Environmental clearence.
3c	Recovery of sailable/usable mineral from ROM production	65%	-	
3d	Quantity of mineral reject generation	No such proposal is made.	-	There is no generation of mineral rejects.
3e	Grade of mineral rejects generation and threshold value declared.	No mineral rejection proposals. Threshold limit id 10% Mn.	-	

3f	Quantity of sub grade mineral generation.	No such proposal is made	-	There is no generation of subgrade mineral.
3g	Grade of sub grade mineral generation	No such proposal is made	-	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	-	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal is made	-	As such manual segregation is adopted.
3j	Provision of drilling and blasting in mineral benches	No such proposal is made	-	
3k	Provision of mining machineries in mineral benches	Yes,	Provision is being made moveent of machinary.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes,	Provision is being made movement of machinary.	No drilling and blasting is required since the OB and Ore are soft in nature.
3m	Total area covered under excavation/pits	3.32 ha	3.32 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.69	-	
3o	Total area put in use under different heads at the end of year	15.33 ha	15.33 ha	No mining activity could take place during the year 2016-17 for want of EC.
3p	Production of ROM mineral during the last five year period as applicable	2012-13=44,254 T, 2013-14=41,472 T, 2014-15=20,772, 2015-16=20,229 T and 2016-17=30,008 T	2012-13=33,402 T, 2013-14=Nil, 2014-15=Nil, 2015-16=Nil and 2016-17=Nil	

3q	General remarks of inspecting officers on method of mining etc.	Semi mechanised opencast method of mining is proposed.	-	As in vogue, Semi mechanised opencast method of mining is practiced without resorting to drilling and blasting.
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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)	Yes, Separate dumping of OB is proposed.	-	The overburden is seperately dumped. The Soil is concurrently being used for afforestation. There are no mineral rejects.
4b	Location of topsoil, OB and mineral reject dumps	OB is proposed to be dumped on the North Western part of the ML area.	-	
4c	Number of dumps within lease area and outside of lease area	One	One	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump has been proposed beyond UPL	-	The existing dump is beyond UPL.
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	Nil	-	
4g	Number of dumps established.	Nil	-	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes,		
4i	Length of Retaining wall or garland drain all along dumps	850m Lx2m Wx 1m d garland drain. 850m Lx2mWx 1.5m H retaining wall	No work could commence.	The given dimension proposals are for the five years period.
4j	Number of settling ponds	Nil	-	

4k	Specific comments of inspecting officer on waste dump management	The waste material is in the form weather Khondalite and which is proposed to be dumped beyond UPL.	-	The waste material lies beyond UPL.
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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 such proposal has been made.	-	The mineral is continuing at depth and the backfilling proposals at this stage does not arise at this stage.
5b	Area under backfilling of mined out area	No such proposal has been made.	-	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposal has been made.	-	
5d	Total area fully reclaimed and rehabilitated	No such proposal has been made.	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No backfilling and reclamation proposals have been made.	-	The mineral is continuing at depth and therefore no such proposals of backfilling and reclamation proposals have been made.

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,	Not submitted.	Violation of Rule 26(2) of MCDR 2017 has been pointed out.
6b	Area available for rehabilitation (ha) .	No such proposals have been made.	Nil	
6c	afforestation done (ha).	Proposed	-	
6d	No. of saplings planted during the year	112 saplings	50 saplings have been done.	
6e	Cumulative no .of plants	No such figure has been proposed.	The cumulative no.of saplings that exists is about 1500.	
6f	Any other method of rehabilitation	No such proposals have been made.	-	
6g	Cost incurred on watch and care during the year	No such proposals have been made.	-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposals have been made.	-	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposals have been made.	-	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No such proposals have been made.	-	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposals have been made.	-	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposals have been made.	-	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Afforestation is proposed along the 7.5m buffer zone.	-	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.15 ha	0.12 ha	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Rehabilitation by means afforestation proposed	-	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical monitoring of Environmental parameters is proposed.	-	Minie is not in operations since 2013-14. Violation of Rule 28(1) of MCDR 2017 is pointed out
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Environmental protective and Periodical monitoring of Environmental parameters is proposed	-	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	30,008 T	Nil	No ROM production could be done for want of EC.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	

7c	Different grade of mineral sorted out at mines.	Yes,	-
7d	Any beneficiation process at mines .	No,	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The entire ROM is meant for sale. No beneficiation is proposed.	The entire ROM is sold out.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes,	-	
8b	Concurrent use or storage of topsoil	Storage of top soil	Storage of top soil near at site Office.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes,	OB has been dumped seperately.	There is no mineral rejects
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal is made.	-	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal is made.	-	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Additional Plantation is proposed.	Additional plantation is done.
8g	Survival rate	80%	80%
8h	Water sprinkling on roads to control airborne dust	proposed.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation is proposed to improve aesthetic beauty in and around the mines area.	Plantation done in and around the ML area has improved the aesthetic beauty the mines area

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR shall be submitted before 10th of every month in respect of preceding month. AR which shall be submitted before 1st July each year for the preceding Financial Year.	submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	To be submitted.	Submitted.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	To be submitted	Submitted.	
9d	Scrutiny of Annual return on afforestation	To be furnished.	Furnished.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	To be furnished.	There is nil mineral rejection.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	To be furnished.	There is nil ROM stock
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	To be furnished.	Furnished to be nil since there is no production and sale of ROM from this mine is also nil.
9h	Scrutiny of Annual return on fixed assets	To be furnished.	No such details have been furnished.
9k	Scrutiny of Annual return on mining machineries	To be furnished.	Details have been furnished in Mining machinery statement.

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
MCDR17 Rule 11(1)	15/06/2017				
MCDR17 Rule 26(2)	15/06/2017				
MCDR17 Rule 28(1)	15/06/2017				

Date :
(M.Pratap.Reddy)

Indian Bureau of Mines