

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

**MCDR inspection REPORT  
Hyderabad regional office**

**Mine file No :** AP/VZNR/MN-A2/HYD

**Mine code :** 40APR20045

- (i) Name of the Inspecting : **S41** ) **Y M SIVA PRASAD**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : R.Divakar, Mining Engineer  
Official with  
Designation
- (iv) Date of Inspection : 11/01/2018
- (v) Prev.inspection date : 24/05/2017

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **AVAGUDAM**
- (b) **Registration NO.** : **IBM/536/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address  
State : **ANDHRA PRADESH**  
District : **VIZIANAGARAM**  
Village : **AVAGUDAM**  
Taluka : **GARIVIDI**  
Post office : **VEDULLAVALASA**  
Pin Code :  
FAX No. : **08952-282021**  
E-mail : **montymor@rediffmail.com**  
Phone : **08952-282129**
- (f) Police Station : **GARIVIDI**
- (g) First opening date : **08/12/1995**
- (h) Weekly day of rest : **SUN**
2. Address for : **M/S RBSSD & FN DAS**  
correspondance : **SREERAM NAGAR**  
**GARIVIDI, VIZIANAGARAM DT.**
3. (a) Lease Number : **APR1283**
- (b) Lease area : **13.87**
- (c) Period of lease : **30**
- (d) Date of Expiry : **06/12/2025**
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/S RBSSD &FN DAS  
M/S R B S S D & F N D A S T U  
M S A R, DIST  
VIZIANAGARAM. VIZIANAGARAM  
ANDHRA PRADESH  
Phone: 089522---- 2021  
FAX : NIL

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

## Mining Engineer

Name : Divakar. R, Full Time  
Qualification : Bachelor of Engineering. (Mining)  
Appointment/ : 18/09/2017  
Termination date

## Geologist

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

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	12/02/2004
Plan/Scheme of Mining		Modif.approved Mining Scheme	31/01/2006
		Mining Scheme rule 12 MCDR1988	06/02/2009
		Modif.approved Mining Scheme	04/04/2011
		Mining Scheme rule 12 MCDR1988	17/12/2013
		MP modif under 17(3) MCR 2016	19/09/2016

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Exploration proposals in the previous year.	--	--
1b	Exploration over lease area for geological axis 1 or 2	G 1 Scale.	So far, the lessee has carried out G2 scale of Exploration.	----
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposals	N I L	-----
1e	Balance reserve as on 01/04/20	9.68,783 tonnes.	9,38,895 tonnes	None.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development and Production is proposed between sectionlines A -- A' to C -- C'.	Development cum Production is done as proposed in the approved document.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed separate benches.	As proposed separate benches in OB and Ore have been formed.	
2c	Stripping ratio or ore to OB ratio	1:3.05	1 : 2.95	
2d	Quantity of topsoil generation in m3	8,340 cum.	Around 5000 cum.	
2e	Quantity of overburden generation in m3	40,015 cum.	15.400 cum.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			

## Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One	One.	
3b	Quantity of ROM mineral production proposed	43,500 tonnes	7,730 tonnes . Up to Dec. 2017.	
3c	Recovery of sailable/usable mineral from ROM production	70%	70%	
3d	Quantity of mineral reject generation	N I L	--	
3e	Grade of mineral rejects generation and threshold value declared.	No mineral rejection proposals.Thre shold limit id 10% Mn.	---	
3f	Quantity of sub grade mineral generation.	N I L	There is no generation of subgrade mineral.	
3g	Grade of sub grade mineral generation	None.	---	
3h	Manual / Mechanised method adopted for segregating from ROM	Mnual segregation from ROM.	Manual segregation from ROM as proposed is done.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposals.	--	
3j	Provision of drilling and blasting in mineral benches	No proposals.	---	No drilling and blasting is required since the OB and Ore are soft in nature.
3k	Provision of mining machineries in mineral benches	Yes.	Provision is made for movement of machinery in mineral benches.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	The benches in OB and mineral have been made as per the proposals made in the approved document.	

3m	Total area covered under excavation/pits	6.492 ha.	6.125 ha.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 1. 29	1 : 1. 29
3o	Total area put in use under different heads at the end of year	8.56ha	8.23 ha.
3p	Production of ROM mineral during the last five year period as applicable	2013-14 ; 60,412 T.	2013-14 : 40,810 T.

2014-15 : 48.040 T.

2014-15 :  
51,919 T.

2015-16 : 44,872 T.  
2016-17 : 29,798 T.  
2017-18 : 7,730 T.( Upto  
Dec.2017.)

		2015-16 : 41,355 T. 2016-17: 48,953 T. 2017-18 : 43,500 T.	
3q	General remarks of inspecting officers on method of mining etc.	Semi mechanised opencast method of mining is proposed.	As proposed Semi mechanised opencast method of mining is practiced without resorting to drilling and drilling.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperatedumpin g of OB is proposed.	As proposed seperate waste dumping is done.
4b	Location of topsoil, OB and mineral reject dumps	OB is proposed to be dumped between	As proposed the OB is dumped on the existing dump on the North Western part of the ML area.

768029 E -  
768214 E and

2031088 N -  
2031212 N

4c	Number of dumps within lease area and outside of lease area	Two dumps within ML area.	Two dumps are existing on North Eastern part of the ML area exists.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL.	The dumps exists beyond UPL.
4e	Number of active and alive dumps.	Two dumps	Two dumps.
4f	Number of dead dumps.	N I L	--
4g	Number of dumps established.	None.	--

4i	Length of Retaining wall or garland drain all along dumps	500 m L x 1 m W x 1 m D garland drain.	The construction of wall and garland drain is under progress.	The given dimension proposals are for the five years period.
4j	Number of settling ponds	None	---	
4k	Specific comments of inspecting officer on waste dump management	280 m L X 2 m W X 1.5 m H. Retaining Wall. The waste material is in the form of weather Khondalite and which is proposed to be dumped beyond UPL.	As proposed the waste material is dumped beyond UPL on Northwestern part of the ML area.	

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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 proposals	--	
5b	Area under backfilling of mined out area	No such proposals	--	--
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals	--	Concurrent use of top soil for afforestation is implimented.
5d	Total area fully reclaimed and rehabilitated	No proposals	----	

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Progressive Mine Clousre Plan:

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Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes.	Yearly report for the year 2016-17 is submitted.	
6b	Area available for rehabilitation (ha) .	No such proposals has been made.	N I L	
6c	afforestation done (ha).	Yes.	Afforestation is being done.	
6d	No. of saplings planted during the year	No such proposals.	However the lessee has planted 125 saplings	
6e	Cumulative no .of plants	No proposals	The cumulative no of saplings exists eithin ML area is 23,487 saplings	
6f	Any other method of rehabilitation	No proposals	None.	
6g	Cost incurred on watch and care during the year	No proposals	About Rs. 1, 00, 000 /-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposals.	None	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals	---	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposals	--	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	N o such proposals	--	



6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals	---
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposals	However the lessee has done afforestation on barren land.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposals	However , the lessee has done afforestation on barren land over an extent of 0.688ha.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Rehabilitation by means of afforestation proposed.	As proposed rehabilitation in the non-mineralised area within ML areahas been done.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring Environmental protective measuresand Monitoring of environmental parameters is proposed.	Periodical monitoring of Environmental parameters is done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Environmental protective measures and Monitoring of environmental parameters is proposed.	As proposed Environmental protective measures and Monitoring of environmental is done.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM proposed for despeatch = 7,730 tonnes ( Upto December 2017).ROM is meant for selling.	ROM dispatched = 7,730 tonnes ROM is sold out.	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual.	Manual.
7c	Different grade of mineral sorted out at mines.	Sorting of +10% Mn in Mines.	As proposed sorting is done with in the mines.
7d	Any beneficiation process at mines	None.	--
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.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes.	Top soil is being removed seperately and concurrently used for afforestation.	
8b	Concurrent use or storage of topsoil	Concurrent use.	Concurrently used for afforestation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate OB dump is proposed.	OB is dumped seperately beyond UPL.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals.	--	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals.	---
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposals.	125 saplings have been planted.
8g	Survival rate	No proposals	80%.
8h	Water sprinkling on roads to control airborne dust	No proposals	Observed water sprinkling is done on haul roads to suppress air born dust.

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Returns and Annual Return of the year is to be submitted as per statute.	Monthly Returns for the year 2017-18 up to January 2018 are submitted through On-Line to this office. Annual Return for the year 2017-18 is due , and yet to be submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual Return for the year 2017-18 is yet to be submitted.	-----	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Annual Return for the year 2017-18 is yet to be submitt. It is due on July 2018.	Does not arise.	
9d	Scrutiny of Annual return on afforestation	Annual Return for the year 2017-18 is yet to be submitted.	----	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	-----	-----
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual Return for theyear 2017-18 is yet to be submitt.	-----
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Annual Return for the year 2017-18 is due on July2018.	-----
9h	Scrutiny of Annual return on fixed assets	Annual Return for the year 2017-18 is due on July 2018.	-----
9k	Scrutiny of Annual return on mining machineries	Annual Return for the year 2017-18 is due on July 2018.	-----

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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

Date :

(Y M SIVA PRASAD)

Indian Bureau of Mines