

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/VZNR/MN-24/HYD

Mine code : 40APR20046

- (i) Name of the Inspecting : **S41**) **Y M SIVA PRASAD**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 10/01/2018
- (v) Prev.inspection date : 24/05/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DEVADA NEW**
- (b) **Registration NO.** : **IBM/536/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : **ANDHRA PRADESH**
District : **VIZIANAGARAM**
Village : **DEVADA**
Taluka : **GARIVIDI**
Post office : **SHREERAMNAGAR**
Pin Code :
FAX No. : **08952-282021**
E-mail : **montymor@rediffmail.com**
Phone : **82041,82021**
- (f) Police Station :
- (g) First opening date : 06/02/1995
- (h) Weekly day of rest : SUN
2. Address for : M/S.R.B.S.S.D.&F.N.DAS
correspondance : DEVADA,(V),GARVIDI(M), 535101.
SREERAMNAGAR(P) VIIANAGARAM
3. (a) Lease Number : APR1281
- (b) Lease area : 41.06
- (c) Period of lease : 10
- (d) Date of Expiry : 22/01/2015
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 : D.SURYANARAYANA
M/S.RBSSD&FNDAS
SREERAMNAGAR GARVIDI
VIZIANAGARAM ANDHRA PRADESH
Phone:
FAX :

Mining Engineer

Name : P.S.K.KISHORE,Part Time
Qualification : A.M.I.E
Appointment/ : 03/05/2005
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	09/09/2004
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	25/01/2006
		Modif.approved Mining Scheme	16/01/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Six bore holes have been proposed in the year 2016-17.	The proposed exploration has been carried out and completed.	The lessee has submitted Form-I and Form J to this office.
1b	Exploration over lease area for geological axis 1 or 2	The exploration proposed under G1 scale of exploration.	The proposed exploration has been completed.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal has been made.	The lessee himself is carrying out the exploration.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	About 2.65ha.	The exploration of twelve bore holes and 10 DTH holes are completed as proposed in the Approved Modifide Mining Plan.	
1e	Balance reserve as on 01/04/20	533163 Tonnes.	515233 Tonnes.	
1f	General remarks of inspecting officers on geology, exploration etc	Archean terrain with khondalite host rock for manganese mineralisation with proposed G 1 scale of exploration.	It is Metamorphic terrain of Archean era consisting of Khondalite which is hosting manganese mineralisation.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Development and production is proposed between section lines C-C' AND D-D'.	As proposed, development cum production is done between section lines C-C' and D-D' with in mining lease area.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes.	Yes, separate benches in top soil OB have been maintained.	

2c	Stripping ratio or ore to OB ratio	1: 1.07.	1 : 0. 8
2d	Quantity of topsoil generation in m3	No propposals	N I L
2e	Quantity of overburden generation in m3	13,550 CUM.	10,500 CUM
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Pit development cum production is proposed between section lines C-C' TO D-D'.	Pit development cum production could not be acheived tothe extewntproposed as there was less market demand.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit.	One pit.	
3b	Quantity of ROM mineral production proposed	56,700 tonnes.	17,930 tonnes (up to Nov 2017)	
3c	Recovery of sailable/usable mineral from ROM production	70%.	70%.	
3d	Quantity of mineral reject generation	N I L	N I L	
3e	Grade of mineral rejects generation and threshold value declared.	No such proposals has been made. The threshold value is 10% Mn.	---	---
3f	Quantity of sub grade mineral generation.	N I L	---	
3g	Grade of sub grade mineral generation	None	---	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	N such proposals has been made.	--
3j	Provision of drilling and blasting in mineral benches	No such proposals has been made.	--
3k	Provision of mining machineries in mineral benches	Yes.	Provision is made for movement of mining machinery.
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 Modified Scheme OF mining.
3m	Total area covered under excavation/pits	5.92 ha.	5.92 ha.
3n	Ore to OB ratio for the pit/mine during the year.	1: 1.07.	1: 1.06
3o	Total area put in use under different heads at the end of year	30.5 ha	29.81 ha

3p	Production of ROM mineral during the last five year period as applicable	2013-14 : 53,866 T	2013-14 : 443,186 T. 2014-15 : 72,130 T. 2015-16 : 36,150 T. 2016-17 : 39, 572 T. 2017-18 : 17,930 T. (Upto Nov.2017).
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2014-15
:61,032 T.

2015-16 :
56,875 t.2016-
17 : 61,331 T.
2017-18 :
56,700 T.

3q	General remarks of inspecting officers on method of mining etc.	Semi mechanised opencast method of mining is proposed.	As proposed Semi mechanised open cast 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.	As proposed seperate dumping is done.	
4b	Location of topsoil, OB and mineral reject dumps	N 575-N 670 to E 190- E 310.	As proposed the OB is dumped between grid lines N 575 - N 670 to E-190- E310.	
4c	Number of dumps within lease area and outside of lease area	There exists in all six dumps.	Besides active dump there exists five more dumps within the minig lease area.	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed beyond ultimate pit level.	The dumps exists beyond UPL.
4e	Number of active and alive dumps.	Six.	Six.
4f	Number of dead dumps.	N I L.	--
4g	Number of dumps established.	None.	--
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposals	--
4i	Length of Retaining wall or garland drain all along dumps	--	--
4j	Number of settling ponds	None	--
4k	Specific comments of inspecting officer on waste dump management	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.

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.	---	The mineral is continuning at depth and the backfilling proposals at this stage does not arise.
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 has been made.	---	The top soil is concurrently used forafforestation in the barren land.

5d	Total area fully reclaimed and rehabilitated	N I L	N I L	N I L
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	None.

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).	Annual report is tobe submitted as per statue	Lessee has been submitted yearly report for the year 2016-17.	
6b	Area available for rehabilitation (ha) .	No proposals.	N I L	
6c	afforestation done (ha).	No.	N I L	
6d	No. of saplings planted during the year	None.	---	
6e	Cumulative no .of plants	None.	About 3500 saplings have been done.	
6f	Any other method of rehabilitation	No.	--	
6g	Cost incurred on watch and care during the year	None.	Rs 80,000/-.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NO proposals.	N I L	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati 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 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 proposals	N I L	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposals have been made .	---	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposals.	--	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental protective measuresand monitoring of environmental parameters is proposed.	Asn proposed	Environmental protective measures and monitoring of Environmental is done.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Environmental protective measuresand monitoring of environmental parameters is proposed.	Asn proposed	Environmental protective measures and monitoring of Environmental is done.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Proposed for despatch =56,700 T,, Entire ROM is meant for selling.	ROM Despatched = 17,930 T (Upto Nov.2017. The entire ROM is S oldout.
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 and above grade sorting 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 ROMis 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)	No proposal.	N I L	---
8b	Concurrent use or storage of topsoil	No proposal.	N I L	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes.	Yes, as proposed the waste material is dumped seperately.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposals has been made.	---	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No additional afforestation is proposed.	----	Except Palm oil nursery, no additional plantation is done.
8g	Survival rate	No proposal	--	
8h	Water sprinkling on roads to control airborne dust	Proposed.		Water sprinkling is done on hauls roads to arrest air borne dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No proposals.		The already existing plantation adds aesthetic beauty to the mine area and surroundings.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns and Annual returns are to be submitted as per statue.	Monthly returns for the year 2017-18. Annual return for the year 2017-18 is yet to be submitt in the month of July 2018.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual return is not yet submitted..	----	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Does not arise.	Does not arise.	
9d	Scrutiny of Annual return on afforestation	Does not arise.	Does not arise.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	----	----	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	-----	----	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	---	---
9h	Scrutiny of Annual return on fixed assets	----	---
9k	Scrutiny of Annual return on mining machineries	---	----

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