

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : **PR09**) **M.Pratap.Reddy**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : PSK KISHORE MINING ENGINEER
Official with
Designation
- (iv) Date of Inspection : 24/05/2017
- (v) Prev.inspection date : 29/07/2016

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 Boreholes have been proposed in the 2016-17	The proposed exploration has not been carried out.	Violation Rule 11(1) of MCDR 2017 has been pointed out.
1b	Exploration over lease area for geological axis 1 or 2	The exploration is proposed under G1 scale of exploration.	The proposed exploration is under progress.	
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. The expenditure so far incurred is RS.2,59,611/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	About 2.7 ha	The exploration activity is being under progress.	
1e	Balance reserve as on 01/04/20		5,32,343 T	The balance reserve is on higher side due to less production on account of poor market demand.
1f	General remarks of inspecting officers on geology, exploration etc	5,11,584 T 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
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2a	Location of development w.r.t. lease area	Development cum 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 the ML area.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes,	Yes, seperate benches in in top soil and OB have been formed.
2c	Stripping ratio or ore to OB ratio	1:0.89	1:0.9
2d	Quantity of topsoil generation in m3	5200 cum	3000 cum
2e	Quantity of overburden generation in m3	10,500 cum	Around 8000 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' from 96 RL to 75RL	Pit development cum production could not be done tto the extent proposed 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	ROM proposed=61,331 T	ROM achived=39,572 T	Achivement is less due to poor market demand.
3c	Recovery of sailable/usable mineral from ROM production	70%	70%	
3d	Quantity of mineral reject generation	Nil	Nil	

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.	Nil	-
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.	No 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 being made moveent of machinary.
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 asper the proposals made in the approved document.
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.	1:0.89	1:0.9
3o	Total area put in use under different heads at the end of year	30.5 ha	29.80 ha

3p	Production of ROM mineral during the last five year period as applicable	2012-13= 45,432 T, 2013-14= 53,866 T, 2014-15=61,032 T, 2015-16=56,875 T & 2016-17=61,331 T	2012-13= 48,660 T, 2013-14= 43,186 T, 2014-15=72,130 T, 2015-16=36,150 T & 2016-17=39,572 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 blasting.

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	N52-N1150 to E400-610	As proposed the OB is dumped between grid lines N52-N1150 to E400-610.	
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 with in the ML area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed beyond UPL	The dumps exists beyond UPL.	
4e	Number of active and alive dumps.	Six	Six	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	None	-	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes, proposed.	Yes, Retaining wall and garland drains have been made.	
4i	Length of Retaining wall or garland drain all along dumps	413m Lx1m Wx 1m d garland drain. 850m Lx2mWx 1.5m H retaining wall	The costuction of retaining 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	The waste material is in the form weather Khondalite and ML area 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 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.	-	The top soil is concurrently used for afforestation in the barren land.
5d	Total area fully reclaimed and rehabilitated	Nil	-	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			

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	Not submitted.	Violation of Rule 26(2) of MCDR 2017 has been pointed out.

6b	Area available for rehabilitation (ha) .	No such proposal has been made.	nil
6c	afforestation done (ha).	No	-
6d	No. of saplings planted during the year	None	-
6e	Cumulative no .of plants	None	About 3000 saplings have been done.
6f	Any other method of rehabilitation	None	-
6g	Cost incurred on watch and care during the year	None	around Rs 1,00,000/-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposlas have been made.	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposlas have been made.	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No such proposlas have been made.	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposlas have been made.	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposlas have been made.	-

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposlas have been made.	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposlas have been made.	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposlas have been made.	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental protective measures and Monitoring of environmental parameters is proposed.	As 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 measures and Monitoring of environmental parameters is proposed.	As proposed Environmental protective measures and Monitoring of environmental is done.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Proposed for dispatch=61,33 1 T, Etn tie ROM is meant for selling	ROM dispatched= 39,572 T. The entire 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 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 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)	5200 cum	Romoved about 3000 cum.	
8b	Concurrent use or storage of topsoil	Proposed for concurrent use for afforesation	Done as proposed.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes,	Yes, as proposed the waste material is dumped seperately.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal has been made.	-	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal has been made.	-	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No Additional afforesation is proposed.	-	Except Palm oil nursery, no addotional plantation is done.

8g	Survival rate	No such proposal has been made.	-
8h	Water sprinkling on roads to control airborne dust	proposed.	Regulat water sprinkling is done on haul roads to arrest airborn dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No such proposal has been made.	The already existing plantation adds aesthithic 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	MR shal 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.	Furnished in intime.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	To be furnished.	Furnished.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	To be furnished.	Landuse pattern has been furnished.	
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 no generation of Mineral rejects.	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	To be furnished.	No ROM stock exists.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	To be furnished.	The average Ex mine price is Rs.3855/
9h	Scrutiny of Annual return on fixed assets	To be furnished.	Furnished.
9k	Scrutiny of Annual return on mining machineries	To be furnished.	The 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 55(1)(3)	15/06/2017				

Date :
(M.Pratap.Reddy)

Indian Bureau of Mines