

**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 : **RK13**) **A.V.Ramesh Kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri P S K Kishore, Manager(Mines)
Official with
Designation
- (iv) Date of Inspection : 29/07/2016
- (v) Prev.inspection date : 02/02/2007

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	It is proposed to carry out 10 DTH and 05 core bore holes during the year 2015-16	It was noticed that 10 DTH and 05 core boreholes have been carried out during 2015-16 up to a depth of 30 meters.	None
1b	Exploration over lease area for geological axis 1 or 2	The exploration was proposed under G-1 axis	The exploration was carried out for G-1 axis	None
1c	Exploration Agencies and Expenditure in lakh rupees during the year	The expenditure incurred was not proposed in the document	It was informed that an amount of Rs.2,50,000/- was incurred for the said exploration programme.	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	An area of 3 ha has been proposed to be explored under G-1 axis during the year 2016-17.	None	None
1e	Balance reserve as on 01/04/20	It is proposed to produce 58,755 tonnes during the year 2015-16	It was reported about 36,150 tonnes production during the year 2015-16	None
1f	General remarks of inspecting officers on geology, exploration etc	None	None	None

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to work between RL81 to RL 63m	it was noticed that the workings are as per the proposal.	None

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It is proposed to make separate benches in overburden and Ore.	It was observed that separate benches have been made in overburden and ore. Five benches in OB and three in ore.	None
2c	Stripping ratio or ore to OB ratio	It was proposed a stripping ratio of 1:2.3	it was noticed that a stripping ration of 1:1.053 has been made.	None
2d	Quantity of topsoil generation in m3	No proposal for generation of topsoil during the year 2015-16 was made.	It was noticed that no topsoil was generated during the year 2015-16.	None
2e	Quantity of overburden generation in m3	it was proposed to generate a quantity of 34314 tonnes of waste during the year 2015-16	It was reported a waste of 34,327 tonnes during the year 2015-16	None
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	none	None	None

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	It was proposed to produce from only one pit during the year 2015-16.	It was observed that the production was done from one pit only.	None
3b	Quantity of ROM mineral production proposed	it was proposed to produce 58775 tonnes during the year 2015-16.	A production of 36150 tonnes was reported during the year 2015-16.	None
3c	Recovery of sailable/usable mineral from ROM production	None	None	None

3d	Quantity of mineral reject generation	It was proposed to generate 51471 tonnes of mineral reject/waste during the year 2015-16.	34327 tonnes of waste was produced during the year 2015-16.	None
3e	Grade of mineral rejects generation and threshold value declared.	None	None	None
3f	Quantity of sub grade mineral generation.	None	None	None
3g	Grade of sub grade mineral generation	None	None	None
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal as there is no generation of subgrade material	None	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	None
3j	Provision of drilling and blasting in mineral benches	It was proposed to carry out drilling and blasting.	Occasional drilling and blasting was carried out as proposed during the year 2015-16	None
3k	Provision of mining machineries in mineral benches	It was proposed to use an excavator.	A shovel(Hydraulic) of capacity 1.100 CUM was observed.	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain a height of 3 meters.	It was noticed that the bench height was maintained as per the proposals made in approved document.The proposed height was suitable to carry out A OTFM method of mining.	None
3m	Total area covered under excavation/pits	It was proposed to cover a total area of 5.9 ha during the netire period of proposal.	The actual area under excavation is 7.02 ha	None

3n	Ore to OB ratio for the pit/mine during the year.	1:2.37	1:1.053	None
3o	Total area put in use under different heads at the end of year	It was proposed to put a total of 30 ha	th total area put to use under different heads is 29.56 ha	None
3p	Production of ROM mineral during the last five year period as applicable	2011-12-100667 T 2012-13-45432 T 2013-14-53866 T 2014-15 -61032 T 2015-16 -56875 T	2011-12 - 37900 2012-13 - 48660 T 2013-14 - 43186 T 2014-15 - 72130 T 2015-16 - 36150 T	None
3q	General remarks of inspecting officers on method of mining etc.	None	None	None

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	proposal for seperate dumping was made.	it was noticed that seperate dumping is being as proposed.	None
4b	Location of topsoil, OB and mineral reject dumps	It was proposed to dump the waste in between gridlines N52-N150 and E 400 - 610	it was noticed that the dumping was done as proposed.	None
4c	Number of dumps within lease area and outside of lease area	it was proposed to dump the waste as proposed.	it was noticed that apart from the actived dumping being done at the place as proiposed.Five more old dups have been noticed with following dimensions 55x30x3m 150x63x6m 205x100x15m 135x75x15m 245x70x12m	None

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The location of these dumps are located between gridlines N52-150 and E400-610	The dumps were noticed at the proposed location.	None
4e	Number of active and alive dumps.	One active and five old dumps	it was noticed that one active and five old dumps were noticed.	None
4f	Number of dead dumps.	None	None	None
4g	Number of dumps established.	Six	Six	None
4h	Whether Retaining wall or garland drain all along dumps are there.	it was proposed to construct a retaining wall of dimesion of 850x2mx1.5m	It was noticed that a retaining wall of 800x2x1.5m was constructed.	None
4i	Length of Retaining wall or garland drain all along dumps	850m	800m	
4j	Number of settling ponds	None	None	None
4k	Specific comments of inspecting officer on waste dump management	None	None	None

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.	it was proposed to backfill 0.9 ha in the 7.5m barrier zone.	it was noticed that 0.9 ha has been backfilled duirng 2015-16	None
5b	Area under backfilling of mined out area	0.9 ha	0.9 ha	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None	None	None

5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	As no area has been matured for reclamation/rehabilitation, no such work has been done.	None

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).	it was proposed to submit a annual report on the protective measures under rule 23E(2) of MCDR,1988	The Annual report has been submitted.	None
6b	Area available for rehabilitation (ha) .	None	None	None
6c	afforestation done (ha).	it was proposed to plant 500 trees	500 trees were planted during the year 2015-16.	None
6d	No. of saplings planted during the year	500 No.s	500 No.s	None
6e	Cumulative no .of plants	2500 No.s	2500 No.s	None
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	--	It was reported by the lessee that he incurred and expenditure of Rs.75,000/- during the year 2015-16.	None
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal for rehabilitation or reclamation was made	Not applicable.	None

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal was made	Not applicable	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal was made	No reclamation was carried out during 2015-16.	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal was made for backfilling.	No backfilling was made during the year 2015-16.	None
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal was made for reclamation	No reclamation was carried out.	None
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	None	None	None
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	None	None	None
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	None	None	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular Environmental monitoring was proposed.	Environmental monitoring was done on regular basis. Also incurred Rs.4 lakhs expenditure on them	None

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	None	None	None
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It is proposed to produce 58755 tonnes during 2015-16.	A production of 36150 tonnes was reported.	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No gradewise sorting was proposed.	It was noticed that there was no gradewise sorting.	None
7c	Different grade of mineral sorted out at mines.	Production from two grade ranges was proposed.	The production achieved was <25% MN - 5760 tonnes 25-35% Mn- 30390 tonnes	None
7d	Any beneficiation process at mines	None	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	None	None	None

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is no proposal for generation of topsoil.	No topsoil was generated.	None
8b	Concurrent use or storage of topsoil	None	None	None

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	It is proposed to dump waste in between gridlines N52-N150 and E 400-610.	The dump was observed as proposed. Further a total of six dumps were noticed in the lease.	None
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	The generated will be dumped as proposed	It was observed that the waste is dumped as per the proposal made in the approved document.	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No reclamation and rehabilitation was proposed during the year 2015-16.	It was noticed that no reclamation was noticed during the year 2015-16.	None
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No separate proposals for base line data generation were made.	It was noticed that there is Palm oil cultivation in some part of the lease.	None
8g	Survival rate	It is proposed to plant 500 plants during the year.	It was noticed that about 400 plants have been planted with a survival rate of 50%.	None
8h	Water sprinkling on roads to control airborne dust	It is proposed to use water tanker for water sprinkling for dust suppression.	It was noticed that a water tanker for sprinkling water is being used for dust suppression.	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	None	None

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	The monthly and annual returns are being submitted by the lessee regularly.	It was noticed that the monthly and annual return are being submitted regularly to IBM	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	A full time Mining Engineer has been appointed	It was noticed that a full time Mining Engineer was appointed. His name is Sri P S K Kishore. The Geologist employed is Sri Sanyasi Raju.	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	It was reported that area put to use under different heads is as follows: Area under workings-7.020 ha Area under waste disposal-7.698 ha Area under buildings/roads - 1.438 ha	It was noticed that the area as mentioned was observed in the lease.	None
9d	Scrutiny of Annual return on afforestation	It was reported that 500 trees were planted during 2015-16	The same was noticed in the lease.	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject generation was reported during 2015-16	It was noticed that no mineral reject was generated during the year 2015-16.	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	It was reported a ROM production of 36,150 tonnes	It was verified and found that the lessee has produced 36,150 tonnes during 2015-16	None
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex-mine price and Cost of production was reported as Rs.1066/- and Rs.1365/-	The same was noticed from Annual return	None

9h	Scrutiny of Annual return on fixed assets	It was reported that depreciation of Rs40000/- was reported during the year 2015-16.	None	None
9k	Scrutiny of Annual return on mining machineries	It was reported that One Hydraulic shovel, 05 tippers, one electric pump and one water tanker were reported to be used.	It is seen from the inspection that the above reported machineries were in use in the lease.	None

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

Date :

(A.V.Ramesh Kumar)

Indian Bureau of Mines