

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

MCDR INSPECTION REPORT

Hyderabad regional office

Mine file No : AP/VZNR/MN-116/HYD

Mine code : 40APR20056

- (i) Name of the Inspecting : **C\$10**) **Ch.Suseela**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompaning mine : Sri. Nagdev, General Manager and Sri. S.C.Behera, Min
Official with
Designation
- (iv) Date of Inspection : 20/10/2016
- (v) Prev.inspection date : 18/05/2004

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GIRIJA**
- (b) **Registration NO.** : **IBM/6596/2011**
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : VIZIANAGARAM
- Village : CHINTALAVALLASA
- Taluka : RAMABHADRAPURAM
- Post office : RAMABHADRAPURAM
- Pin Code :
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** :
- (g) **First opening date** : 27/08/1999
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : H.No:4/20, Main Road, Opp. SBI,
Ramabhadrapuram,
Vizianagaram Dt.
3. (a) **Lease Number** : APR1302
- (b) **Lease area** : 29.48
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 26/08/2017
4. **Mineral worked** : MANGANESE ORE Main

5. Name and Address of the

Lessee : Y.P.RAMA RAO
VIZIANAGARAM ANDHRA
PRADESH
Phone :
FAX :

6. Date of approval of Mining Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	28/08/2009
		Modif.approved Mining Scheme	26/03/2012
		Mining Scheme rule 12 MCDR1988	02/04/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	13 CBH	Not done	13 Core bore holes were proposed during the year 2013-14 but not achieved as the mine was not worked during the year 2013-14 and 2014-15.
1b	Exploration over lease area for geological axis 1 or 2	_____	1.42 ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	_____	_____	
1d	Balance area to be explored to bring Geological axis in 1 or 2	_____	28 ha	
1e	Balance reserve as on 01/04/20	171,621 tonnes	171,621 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	About 28 ha has to be explored to assess the reserves.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block E Pit 1 & 2, Block F- Pit 1	Block E Pit 1 (NE side of the lease area)	Due to sluggish market demand.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no top soil. OB benches- 03 Ore bench-02	OB benches- 02 Ore bench-01	Due to sluggish market demand.
2c	Stripping ratio or ore to OB ratio	1:3	1:23	Less production due to more development work.
2d	Quantity of topsoil generation in m3	NIL	NIL	

2e	Quantity of overburden generation in m3	82,455 m3	31,464 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	_____	_____	There is much development work to achieve more production in the next scheme period.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	3 Pits	1 pit	Due to sluggish market demand.
3b	Quantity of ROM mineral production proposed	32455 tonnes	2238 tonnes	Due to sluggish market demand.
3c	Recovery of sailable/usable mineral from ROM production	22720 tonnes	1343 tonnes	
3d	Quantity of mineral reject generation	6490 tonnes	448 tonnes	
3e	Grade of mineral rejects generation and threshold value declared.	<10% Mn	<10% Mn	
3f	Quantity of sub grade mineral generation.	2525 t	448 t	
3g	Grade of sub grade mineral generation	10-20% Mn	10-18% Mn	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual & Mechanised	Manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	

3j	Provision of drilling and blasting in mineral benches	Yes	NIL	
3k	Provision of mining machineries in mineral benches	Excavatr-5, Tipper-15, Jack Hammer-2, water tanker-1	Excavatr-1, Tipper-3, water tanker-1	Due to sluggish market condition.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes, 3m ht & 6m width	yes, 3m ht & 6m width	
3m	Total area covered under excavation/pits	1. 3048 ha	0.3048 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:3	1:23	
3o	Total area put in use under different heads at the end of year	3.0478 ha	1.0408 ha	
3p	Production of ROM mineral during the last five year period as applicable	2011-12-15015 t, 2012-13-17985 t, 2013-14-33651 t, 2014-15-33000 t, 2015-16-25245 t	2011-12-1377 t, 2012-13-1779 t, 2013-14-NIL t, 2014-15-NIL t, 2015-16-1343 t	Due to sluggish market condition, mine was stopped during the year 2013-14 & 2014-15.
3q	General remarks of inspecting officers on method of mining etc.			The mining operations are being carried out as per the approved proposals.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil. OB & Mineral Reject dump-1	No top soil. OB & Mineral Reject dump-1	
4b	Location of topsoil, OB and mineral reject dumps	OB dump- Block-F(SW side of ML)205-330E, 80N	OB dump- Block-F(SW side of ML)205-330E, 80N	

4c	Number of dumps within lease area and outside of lease area	7 dumps , within lease area	7 dumps, within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side of ultimate pit limit (SW side of lease area)	Out side of ultimate pit limit (SW side of lease area)	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	06	06	
4g	Number of dumps established.	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	380m	NIL	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	Waste is dumped in the designated area as proposed.

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.	NIL	NIL	
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Applicable	Not Applicable	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	

5e	General remarks of inspecting officers on backfilling and reclamation etc.			There was a backfilling proposal in 2012-13 as the ore exhausted in Quarry I. However the same could not be taken up as the mine was not working during the year 2013-14 and 2014-15 and it is reported to be taken up in the next scheme period.
----	--	--	--	---

Progressive Mine Closure 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	Benches are not fully mined out
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	Benches are not fully mined out.
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants	NIL	NIL	
6f	Any other method of rehabilitation	NIL	NIL	
6g	Cost incurred on watch and care during the year	NIL	NIL	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	327 plants	200 plants
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.204 ha	0.20 ha
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Green belt development	Green belt development
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed monitoring of environmental parameters .	Done.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____	Progressive closure operations are being carried out as per the proposals.
----	---	-------	-------	--

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within the lease area	Grade wise sorting within the lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual & Mechanical	Manual	
7c	Different grade of mineral sorted out at mines.	<20% Mn, 20-25% Mn, 25-35% Mn	<20% Mn, 20-25% Mn, 25-35% Mn	
7d	Any beneficiation process at mines .	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	NIL

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil is being generated.	No top soil is being generated.	
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB & waste dump-1	OB & waste dump-1	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	existing plantation-637 Additional plantation-109	existing plantation-220 Additional plantation-200	
8g	Survival rate	70%	60%	
8h	Water sprinkling on roads to control airborne dust	Yes	Being done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	_____	Nothing to highlight.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Returns submitted up to September 2016 Annual Return submitted for the year 2015-16	Monthly Returns submitted up to September 2016 Annual Return submitted for the year 2015-16	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Sri.S.C.Behera Mines Manager- Sri.S.C.Behera	Mining Engineer- Sri.S.C.Behera Mines Manager- Sri.S.C.Behera
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under pits- 2.3048 ha, waste dump- 0.435ha, Roads-0.003 ha, Mineral storage & sub grade stack- 0.009 ha	Area covered under pits- 2.3048 ha, waste dump- 0.435ha, Roads-0.003 ha, Mineral storage & sub grade stack-0.009 ha
9d	Scrutiny of Annual return on afforestation	200 saplings	200 saplings
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Below 25% Mn- 360 t, 25-35% Mn-442 t, 35-46% Mn-26 t	Below 25% Mn-360 t, 25-35% Mn-442 t, 35-46% Mn-26 t
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value- Rs.189, Rs.3465, Rs.1836/- Ex. Mine Price-Rs. 1300, 2440,3000/-, Production cost- Rs. 1760/-	Sale Value- Rs.189, Rs.3465, Rs.1836/- Ex. Mine Price-Rs. 1300, 2440,3000/-, Production cost- Rs. 1760/-
9h	Scrutiny of Annual return on fixed assets	0	0
9k	Scrutiny of Annual return on mining machineries	Tipper -3 Nos Excavator- 01	Tipper -3 Nos Excavator- 01

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
Rule 13(1)	08/12/2016				
Rule 23E(2)	08/12/2016				

Date :
(Ch.Suseela)

Indian Bureau of Mines