# INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

#### Mining Plan Modification REPORT

#### Hyderabad regional office

Mine file No : AP/VZNR/MN-116/HYD Mine code : 40APR20056

(i) Name of the Inspecting : PR09 ) M.Pratap.Reddy

Officer and ID No.

(ii) Designation : Assistant Mining Geologis

(iii) Accompaning mine : NARESH QP

Official with Designation

(iv) Date of Inspection : 16/10/2017

(v) Prev.inspection date :

#### PART-I : GENERAL INFORMATION

(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 : CHINTALAVALASA
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 : H.No:4/20, Main Road, Opp. SBI,

correspondance 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

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5. Name and Address of the

Lessee : Y.P.RAMA RAO

VIZIANAGARAM ANDHRA

PRADESH Phone:
FAX:

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988

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	No exploration proposals in the Year 2016-17	However the Lessee has carried out exploration by means of drilling of 18 Core boreholes	
1b	Exploration over lease area for geological axis 1 or 2	G2 Scale of Exploration.	G2 Scale of exploration has been carried out over an extenet of 4.87 ha in mineralised area.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	The Lessee her self under the supervision of a Technical person. No expense details have been given.	The lessee carried out exploration under the supevision of a Geologist. The expense incurred is Rs.12,12,000/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	2 ha- G2 scale of exploration	2 ha G2 scale of exploration	
1e	Balance reserve as on 01/04/20	*314886 Т	*314886 T	* A fresh reserve estimate is done based on the recent exploraion as furnished in the draft Mining Plan
1f	General remarks of inspecting officers on geology, exploration etc	Precabrian metasedimenta ry deposit with partly G2 Scale of exploration.	Meta sedimentary Mangnese deposit with G2 scale of exploration over an extent of 4.87 ha.	
Dev	elopment :			
Sl.No.	Item	Propasals	Actual work	Remarks

2a	Location of development w.r.t.lease area	development is proposed	The lateral degradation has been done withn in the Planned coordinates but depth wise only three benches(9m depth) could be achived around section 12-12' in block-E.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes,	No top soil benches since there is hardly any soil.two overburden benches and one bench in maganese ore zone has been formed.	
2c	Stripping ratio or ore to OB ratio	1:4	1;0.5	
2d	Quantity of topsoil generation in m3	There is no proposal of top soil generation in the year 2016-17	-	
2e	Quantity of overburden generation in m3	108281 cum	About 1000 cum	The excess development was carried out in the previous year i.e 2015-16
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	in the 2016-17	During 2016-17, the development and winning of the ore took place in one ore band(zone) only.	

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	24,956 T	6,646 T	
3с	Recovery of sailable/usable mineral from ROM production	22460 Т	6,646 T	

3d	Quantity of mineral reject generation	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Mineral rejection: nil, Theshold value: 10% Mn	There is no generation of mineral rejects. The Thershold value for Manganese Ore is 10% Mn
3f	Quantity of sub grade mineral generation.	2496 Т	No subgrade mineral is generated in the year 2016-17.
3g	Grade of sub grade mineral generation	10-20% Mn	-
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.	None	None
3j	Provision of drilling and blasting in mineral benches	Yes	In the mineralsed zone manual operations are only being carried out. No drilling and blasting is carried out.
3k	Provision of mining machineries in mineral benches	Yes	No provision of mining macinary in mineral benches is done.
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	The suitable bench heights in OB and in mineral is being maintained.
3m	Total area covered under excavation/pits	4.056 ha	2.9015 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:4	1:0.5
30	Total area put in use under different heads at the end of year	6.7811 ha	4.1492 ha

3p	Production of ROM mineral during the last five year period as applicable	2012-13- 17985T, 2013- 14-33651 T,2014-15- 33000 T, 2015- 16-25245T & 2015-16=24956	,2012-13-1779 T, 2013- 14-NIL,2014-15-NIL,2015- 16-1343 T and 2016-17= 6,646 T
3q	General remarks of inspecting officers on method of mining etc.	The mining operations are of opecast semi mechanised method of mining.	As proposed mining is being done by semi mechanised method of minind. The machinary is being deployed on need based approach while handling the overburden/sideburden.

### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	One	As proposed dumping is being done ii stipulated place in F block.	
4b	Location of topsoil, OB and mineral reject dumps	F Blocok between coodinates 165N-215N and 105E-225E	OB dump lies in F block between coordinates 180N-215N and 155E-220E	
4c	Number of dumps within lease area and outside of lease area	One dump with in the ML area.	One dump with in ML area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	The waste dump lies beyond UPL.	
4e	Number of active and alive dumps.	One	One.	
4f	Number of dead dumps.	Nil	Nil	
<b>4</b> g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Retaining wall and graland drain are under progress.	
4i	Length of Retaining wall or garland drain all along dumps	380m	Work under progress.	

4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	dump is proposed in F	The waste material dumped in F block is beyond UPL.

## 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 is made.	-	
5b	Area under backfilling of mined out area	No such proposal has been made.	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposal is made.	Does not arise.	
5d	Total area fully reclaimed and rehabilitated	No such proposal is made	-	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No back filling reclamation proposlas have been made as such the area is not matured.	Does not arise.	

### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба		No such proposal is given in the AMP	-	

6b	Area available for rehabilitation (ha).	Nil	-
6c	afforestation done (ha).	Afforesation in 7.5 is proposed.	Afforesation as proposed is done woth less survival rate due to lack of watch and ward
6d	No. of saplings planted during the year	327	330
6e	Cumulative no .of plants	1635	1400
6f	Any other method of rehabilitation	None	-
6g	Cost incurred on watch and care during the year	Rs 25,000/-	Rs 30,000/-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No such proposal is made.	_
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal is made.	_
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No such proposal is made.	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not appicable	
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal is made.	

Sl.No.	Item	Propasals	Actual work	Remarks
Envi	ronment:			
Sl.No.	Item	Propasals	Actual work	Remarks
Min	eral Conservati	on:		
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		As proposed afforesation in 7.5 is being carried out.	
бр	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring is proposed.	Done	
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal is made.	-	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal is made.	-	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal is made.	-	

Actual work

year 2016-17

No Annual return for the

Remarks

Violation letter

is issued on

7.11.2017

Compliance of Rule 45:

Propasals

Item

Status of

submission of

Annual returns

Monthly and

Sl.No.

9a

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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 : (M.Pratap.Reddy)

Indian Bureau of Mines