

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

**MCDR inspection REPORT**

**Hyderabad regional office**

**Mine file No :** AP/VZNR/Mn-127/Hyd

**Mine code :** 40APR20077

- (i) Name of the Inspecting : **C\$10** ) **Ch.Suseela**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri.D.K.Sahu, Mines Manager and Sri.Durga Prasad, Geo  
Official with  
Designation
- (iv) Date of Inspection : 22/11/2017
- (v) Prev.inspection date : 23/10/2016

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RAJA RAJESWARI(4.477 HA)**
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : VIZIANAGARAM
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. :
- E-mail :
- Phone : 08944-202049
- (f) **Police Station** :
- (g) **First opening date** : 12/02/2009
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : R.G.P.KRISHNA RANGA RAO  
RAJ MAHAL,4-6/2, BOBBILI-535 558  
VIZIANAGARAM DIST.
3. (a) **Lease Number** : APR3105
- (b) **Lease area** : 4.48
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 07/01/2029
4. **Mineral worked** : MANGANESE ORE Main

## 5. Name and Address of the

Lessee : M/S BARBIL MINING AND INDS. PVT.LTD  
 BOBBILI VIZIANAGARAM  
 DISTRICT VIZIANAGARAM  
 ANDHRA PRADESH  
 Phone:  
 FAX :

Owner : R.G.P.KRISHNA RANGA RAO  
 RAJ MAHAL, D.NO: 4-6/2  
 BOBBILI (PO) &(M)  
 VIZIANAGARAM VIZIANAGARAM  
 ANDHRA PRADESH  
 Phone:  
 FAX :

Agent : N.K.SAHU  
 VIZIANAGARAM VIZIANAGARAM  
 ANDHRA PRADESH  
 Phone: 08964-204111, 9494330870  
 FAX :

## Mining Engineer

Name : D.K.SAHU, Full Time  
 Qualification : B.TECH (Min. Engg)  
 Appointment/ : 18/11/2009  
 Termination date

## Geologist

Name : N.VITTAL BABU, Full Time  
 Qualification : M.Sc (GEOLOGY)  
 Appointment/ : 29/01/2011  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	23/05/2006
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	20/01/2012
	:	Mining Scheme rule 12 MCDR1988	01/08/2014

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	NIL	4.477 HA	Total area has been explored under G1 Scale
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20	67,242 Tonnes(122) 7084(222)	93,695 Tonnes(122) 7084(222)	
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	Total mineralised area has been explored under G1 scale.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	South East	South East	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not specific	OB-4 Ore-2	No top soil is being generated.
2c	Stripping ratio or ore to OB ratio	1:0.41	1:0.82	Due to more intercalated waste
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	14550 m3	10,669 m3	Due to less production

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

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### 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	21,100 m3	9,880 m3	
3c	Recovery of sailable/usable mineral from ROM production	60%	61%	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual & Mechanised	Manual & Mechanised	
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, Spacing-3m, Burden-3m	Yes, Spacing-3m, Burden-3m	

3k	Provision of mining machineries in mineral benches	Shovel-0.9 m3 Tippers-4	Shovel-0.9 m3 Tippers-4	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 3-6 m	Yes, 3-6 m	
3m	Total area covered under excavation/pits	2.0274 ha	2.0440 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.41	1: 0.82	
3o	Total area put in use under different heads at the end of year	4.349 ha	4.35 ha	
3p	Production of ROM mineral during the last five year period as applicable	2012-13--24084 t, 2013-14--27489 t, 2014-15-25200 t, 2015-16--18312 t, 2016-17--35448 t	2012-13--11605 t, 2013-14--12536 t, 2014-15-12324 t, 2015-16--12743 t, 2016-17--27440 t	
3q	General remarks of inspecting officers on method of mining etc.	_____	_____	The mining operations are being carried out under open cast A OTFM Category

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, waste + OB	Yes, waste + OB	
4b	Location of topsoil, OB and mineral reject dumps	Northern side	Northern side	
4c	Number of dumps within lease area and outside of lease area	Within ML-2 Outside ML-2	Within ML-2 Outside ML-2	Lessee has taken permission from concerned authorities for outside dumping.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	Three	Three	
4g	Number of dumps established.	Three	Three	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes, Retaining wall	Yes, Retaining wall	
4i	Length of Retaining wall or garland drain all along dumps	Not specific	Dump 1-46 m (dead), Dump 2--398 m, Dump 3--121 m, Dump 4--35 m	
4j	Number of settling ponds	NIL	one	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	Lessee has taken permission from concerned authorities for outside dumping.

#### 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	Not matured for reclamation
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)	NIL	NIL	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	

5e	General remarks of inspecting officers on backfilling and reclamation etc.			NO area is matured for reclamation.
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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).	To be submitted	Not submitted	Violation of Rule 26(2) of MCDR, 2017 has been pointed out to the lessee
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	
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	130 Nos	200 Nos
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of Environmental parameters are to be carried out.	Quarterly monitoring of Environmental parameters are being carried out.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____

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Mineral Conservation:

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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 & mechanised	Manual & mechanised	
7c	Different grade of mineral sorted out at mines.	<25% Mn <35% Mn	<25% Mn <35% Mn	
7d	Any beneficiation process at mines	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	_____

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	N.A	
8b	Concurrent use or storage of topsoil	N.A	N.A	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	N.A	N.A	
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)	130	200	
8g	Survival rate	75%	68%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	_____	The ML area is surrounded by Agricultural lands looks greenish.

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Online Monthly and Annual Returns are being submitted regularly	Online Monthly and Annual Returns are being submitted regularly	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri.D.K.Sahu, Mines Manager and Mining Engineer, Sri. Durga Prasad, Geologist	Sri.D.K.Sahu, Mines Manager and Mining Engineer, Sri. Durga Prasad, Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining-2.044 ha, Dump-0.572 ha, Infrastructure -0.824 ha, Others-0.007 ha	Area under mining-2.044 ha, Dump-0.572 ha, Infrastructure-0.824 ha, Others-0.007 ha	

9d	Scrutiny of Annual return on afforestation	200	200
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	90 TONNES	90 TONNES
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value- Rs.5050/- Ex. Mine Price- Rs1860/-(<25 grade) Rs. 4657/-(.25 grade) COP- Rs.2808/-	Sale value-Rs.5050/- Ex. Mine Price- Rs1860/-(<25 grade) Rs. 4657/-(.25 grade) COP-Rs.2808/-
9h	Scrutiny of Annual return on fixed assets		
9k	Scrutiny of Annual return on mining machineries	Shovel, Front End Loader, Blast Hole Drill, Dumpers etc.,	Shovel, Front End Loader, Blast Hole Drill, Dumpers etc.,

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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
MCDR17	Rule 26(2)	12/12/2017	16/02/2018			

**Date :****(Ch.Suseela)**

Indian Bureau of Mines