

**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 : 23/10/2016
- (v) Prev.inspection date : 06/08/2015

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 : R.G.P.KRISHNA RANGA RAO
correspondance : 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	None	None	
1b	Exploration over lease area for geological axis 1 or 2	NIL	4.477 ha	
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	Total area has been explored.
1e	Balance reserve as on 01/04/20	1,21,135 tonnes (122)	1,21,135 tonnes (122)	
1f	General remarks of inspecting officers on geology, exploration etc	—	—	Total area has been explored.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	RL 153 to 141 Sec B-B'	RL 153 to 141 Sec B-B'	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, 5-6 m	Yes, 5-6 m	
2c	Stripping ratio or ore to OB ratio	1:0.52	1:0.71	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	10360 m3	9169 m3	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development is going on as per the approved proposals.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	18312 tonnes	18258 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	60%	60%	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	N.A	N.A	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	N.A	N.A	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual & Mechanical	Manual & Mechanical	
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	No	No	

3k	Provision of mining machineries in mineral benches	Shovel-0.9 m3, Shovel-0.9 m3, 4 tippers 4 tippers		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 3-6 m	Yes, 5-6m	
3m	Total area covered under excavation/pits	2.0274 ha	2.0274 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.56	1:0.71	
3o	Total area put in use under different heads at the end of year	4.0 ha	4.0 ha	
3p	Production of ROM mineral during the last five year period as applicable	2011-12--- 22,272 t, 2012-13---- 24,084 t, 2013-14---- 27,489 t, 2014-15--- 25,200 t, 2015-16--- 18312 t	2011-12---7415 t, 2012- 13----11,605 t, 2013-14- ---12536 t, 2014-15--- 12324 t, 2015-16---12743 t	
3q	General remarks of inspecting officers on method of mining etc.	_____	_____	Mining operations are being carried out under AOTFM 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	North Side	North Side	

4c	Number of dumps within lease area and outside of lease area	Out side ML	Two dead dumps in ML One active dump Outside ML One dead dump outside ML	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	North East	North East	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	Three	Two	
4g	Number of dumps established.	Two	Two	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Constructed Retaining wall	
4i	Length of Retaining wall or garland drain all along dumps	Not Specific	Dump 1--46 m(Dead), Dump 2--398 m,(Dead) Dump 3--121 m (active), 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	
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.	_____	_____	Pit is not matured for back filling.

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	No	Violation of rule 23 E(2) 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	160 Nos	300 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	N.A	N.A	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____	NIL

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise sorting within lease area	Gradewise sorting within lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	< 25% Mn & <35% Mn	< 25% Mn & <35% Mn	
7d	Any beneficiation process at mines	Screening & Sorting	Screening & Sorting	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	Screening & Sorting of ROM is being done to make the ore saleable.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	
8b	Concurrent use or storage of topsoil	N.A	N.A	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, waste dump	Yes, waste dump	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No	No	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No	No	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Existing Plantation-2000 plants Additional Plantation-300 plants	Existing Plantation-2000 plants Additional Plantation-300 plants	
8g	Survival rate	75%	75%	
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 looking green.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual returns submitted up to date	Monthly and Annual returns submitted up to date	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri.D.K.Sahu-- Mining Engineer & Mines Manager, Sri. Durga Prasad-- Geologist	Sri.D.K.Sahu-- Mining Engineer & Mines Manager, Sri. Durga Prasad-- Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under pits- 2.044 ha, Reclaimed area-NIL, Area covered under dumps--0.572 ha	Area covered under pits- 2.044 ha, Reclaimed area-NIL, Area covered under dumps--0.572 ha	
9d	Scrutiny of Annual return on afforestation	300	300	

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	18258 t (ROM)	18258 t (ROM)
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value- Rs.2986/-, Ex.Mine Price- <25% Mn- Rs.1382/-, >25 to ,35 % Mn- Rs. 2764, Cost of Production- Rs2765/-	Sale Value-Rs.2986/-, Ex.Mine Price- <25% Mn- Rs.1382/-, >25 to ,35 % Mn-Rs. 2764, Cost of Production-Rs2765/-
9h	Scrutiny of Annual return on fixed assets	Rs. 4,72,86,560/-	Rs. 4,72,86,560/-
9k	Scrutiny of Annual return on mining machineries	Shovel-1, Dumpers-4, Other HEMM-3	Shovel-1, Dumpers-4, Other HEMM-3

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
Rule 23E(2)	08/12/2016				
Rule 45(7)	08/12/2016				

Date :**(Ch.Suseela)**

Indian Bureau of Mines