

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

Review and updation of Mining Plan REPORT

Hyderabad regional office

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

Mine code : 40APR20077

- (i) Name of the Inspecting : **DP09**) **D.P.Ravi kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : **SHRI D.K.SAHU, MINES MANAGER**
Official with
Designation
- (iv) Date of Inspection : 10/12/2018
- (v) Prev.inspection date :

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	Nil	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	No such specific proposal in the previous approved document.	G1- Nil G2-0.62ha G3-Nil G4-Nil	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal of exploration agency and expenditure.	Nil	No specific proposal of exploration agency and expenditure.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	G1- Nil G2-0.45ha G3-Nil G4-Nil	Nil
1e	Balance reserve as on 01/04/20	107016MT	75432MT	Nil
1f	General remarks of inspecting officers on geology, exploration etc		Almost total potential mineralised area has been explored.	To prove the further continuity of ore 19 nos of bore holes have been proposed during scheme period which is valid upto 2023-24.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	South East.	South East	Development is being carried out as per proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OB & MINERAL	OB-6, ORE-5	Development is being carried out as per proposal.
2c	Stripping ratio or ore to OB ratio	1:0.79	1:0.55	Nil

2d	Quantity of topsoil generation in m3	Not proposed.	Not applicable	There is no top soil proposal in approved scheme of mining.
2e	Quantity of overburden generation in m3	22280 M3	12048M3	Overburden removal is less due to less production.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development was found within the approved limit. OB generation is side due to less production. patch.	Development was found within the approved limit. OB generation is side due to less production. patch.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Nil
3b	Quantity of ROM mineral production proposed	28056MT	21610MT	Nil
3c	Recovery of sailable/usable mineral from ROM production	60%	59%	Nil
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	NA	NA	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised & manual	Mechanised & manual	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposals.	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	Nil
3k	Provision of mining machineries in mineral benches	SHOVEL-0.9 M3 WITH FOUR TIPPERS	SHOVEL-0.9 M3 WITH FOUR TIPPERS	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES 3-6	YES 3-6	Nil
3m	Total area covered under excavation/pits	2.0274 ha	2.0274 ha.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.79	1:0.55	Nil
3o	Total area put in use under different heads at the end of year	4.477 HA	4.360HA	Nil
3p	Production of ROM mineral during the last five year period as applicable	2013-14=27489MT, 2014-15=25200MT, 2015-16=18312MT, 2016-17=35442MT, 2017-18=28056M	2013-14=12536MT 2014-15=12324MT 2015-16=12743MT 2016-17=17557MT 2017-18=12881MT	Nil
3q	General remarks of inspecting officers on method of mining etc.	Opencast mining method has been proposed.	Open cast mining is carried out with drilling and blasting.	Open cast mining is carried out with drilling and blasting.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, Separate dump for OB + Waste.	Yes, Separate dump for OB + Waste.	There is no top soil dump.
4b	Location of topsoil, OB and mineral reject dumps	Northern Part of mine	Northern Part of mine	Dumping of waste is being done as per proposal.
4c	Number of dumps within lease area and outside of lease area	Within ML-2, Outside ML-1	Within ML-2 Outside ML-1	Lessee has taken permission from concerned authorities for out side dumping.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	Nil
4e	Number of active and alive dumps.	One	One	Nil
4f	Number of dead dumps.	Three	Three	Nil
4g	Number of dumps established.	Three	Three	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes, retaining wall	Yes, retaining wall	Nil
4i	Length of Retaining wall or garland drain all along dumps	Not specified	Dump1-46M Dead, Dump2- 398M Dead, Dump4- Dead, Dump3-121M(Live)	Nil
4j	Number of settling ponds	Nil	One	Nil
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.	No	Nil	Not matured for reclamation.

5b	Area under backfilling of mined out area	No	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	--	--	No area is matured for reclamation.

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	submitted	Nil
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	330 Nos.	300 Nos.	Nil
6d	No. of saplings planted during the year	330	300	Nil
6e	Cumulative no .of plants	1400	1200	Nil
6f	Any other method of rehabilitation	No proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	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 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	Nil	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposals	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposals	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposal has been given for quarterly monitoring	Being monitored as per proposal.	Nil
		Environmental Parameters are to be carried out.		

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No comments.	Complied as per the approved Scheme of Mining	Nil
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Mineral Conservation:

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

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Not applicable	Nil
8b	Concurrent use or storage of topsoil	Not proposed.	Not applicable.	Nil

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for waste has been proposed	Separate dump for waste is being maintained.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal.	Not applicable	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal.	Not applicable	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	330 Nos.	300 Nos.	Nil
8g	Survival rate	75%	66%	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads by water tanker in continuous manner.	Water sprinkling on roads made by water tanker and sprinkler.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No commnets.	Aestheitic beauty in and around mines is being maintained.	Aestheitic beauty in and around mines is being maintained.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Annual Return to be submitted before 1st July of subsequent year and monthly return by 10th of succeeding month	Annual return for 2017-18 has been submitted. Monthly return till December 2019 has been submitted	Annual return for 2017-18 has been submitted. Monthly return till December 2019 has been submitted.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri D.K.Sahu Mines manager and Mining Engineer, Shri Durga Prasad, Geologist	Shri D.K.Sahu, Mines manager and Mining Engineer, Shri 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.	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	320	300	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	115 t	115 t	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	ExMine price=below 25 grade=Rs.3371, 25 to below 35 = Rs 4742, Cost of production= Rs.2958	ExMine price=below 25 grade=Rs.3371, 25 to below 35 = Rs 4742, Cost of production= Rs.2958	
9h	Scrutiny of Annual return on fixed assets	rS.47286560	Found/seems to be in order	Nil

9k	Scrutiny of Annual return on mining machineries	Shovel, Front End Loader, Blast Hole Drill, Dumpers etc	The deployment status of the mining machineries appears to be correct.	The deployment status of the mining machineries appears to be correct.
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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 :

(D.P.Ravi kumar)

Indian Bureau of Mines