

**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 : **M029**) **MADHU SUDHAN YADAV M**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri.Dhirendra Kumar Sahu, Mine Manager.
Official with
Designation
- (iv) Date of Inspection : 08-MAR-23
- (v) Prev.inspection date : 13-APR-22

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 : ITLAMAMIDIPALLI
Taluka : RAMABHADRAPURAM
Post office : RAMABHADRAPURAM
Pin Code : 535579
FAX No. :
E-mail :
Phone : 08944-202049
- (f) Police Station :
- (g) First opening date : 12-FEB-09
- (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-JAN-29
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-NOV-09
 Termination date

Geologist

Name : N.VITTAL BABU, Full Time
 Qualification : M.Sc (GEOLOGY)
 Appointment/ : 29-JAN-11
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	23-MAY-06
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	20-JAN-12
	:	Mining Scheme rule 12 MCDR1988	01-AUG-14
	:	MP review under 17(1) MCR 2016	17-JAN-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No proposal for the year 2021-22	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal for the year 2021-22	Entire mining lease covered under G1 level of exploration.	
1e	Balance reserve as on 01/04/20	-----	Balance Reserves as on 01/04/2022 - 43673 Tonnes (122)	
1f	General remarks of inspecting officers on geology, exploration etc			Entire mining lease area covered under G1 level of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2021-22: Between the co-ordinates N090 to N195 to E070 to E180	Work done within the proposed co-ordinates	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed for overburden and minerals	Separate benches developed for overburden and minerals	
2c	Stripping ratio or ore to OB ratio	1:2.0	It is reported in the annual returns that overburden removed is 8609 Tonnes, whereas during inspection it was reported that 6290 Tonnes of overburden generated during the year 2021-22. Violation pointed out as per rule.	

2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	2021-22 - 3622 cu.m	It is reported in the annual returns that overburden removed is 8609 Tonnes, whereas during inspection it was reported that 6290 Tonnes of overburden generated during the year 2021-22. Violation pointed out as per rule.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			It is reported in the annual returns that overburden removed is 8609 Tonnes, whereas during inspection it was reported that 6290 Tonnes of overburden generated during the year 2021-22. Violation pointed out as per rule.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2021-22 - 15212 Tonnes	2021-22 - 6290 Tonnes	
3c	Recovery of sailable/usable mineral from ROM production	60%	60%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Nil	

3f	Quantity of sub grade mineral generation.	No proposal	Nil
3g	Grade of sub grade mineral generation	Not applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised screening for +10 mm size ore	Mechanised screening of +10 mm size ore
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Dry screening of ROM for recovery of saleable ore has been proposed	Dry screening of ROM for recovery of saleable ore is being done
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed in the mineral benches	Drilling and blasting carried out in the mineral benches
3k	Provision of mining machineries in mineral benches	Yes, Provision for the deployment of mining machinery in mineral benches has been made.	Mining operations has been carried out with Hydraulic Excavators, drill machinery, Tippers etc. in mineral benches
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain the bench height of 3 meters	Benches were developed and maintained more than 3m height. Violation pointed out as per rule.
3m	Total area covered under excavation/pits	Open pit - 2.091 Ha	Open pit - 2.091 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:2.0	It is reported in the annual returns that overburden removed is 8609 Tonnes, whereas during inspection it was reported that 6290 Tonnes of overburden generated during the year 2021-22. Violation pointed out as per rule.

3o	Total area put in use under different heads at the end of year	Open pit - 2.091 Ha Waste disposal - 0.658 Ha Infrastructure - 0.546 Ha Plantation - 0.714 Ha	Open pit - 2.091 Ha Waste disposal - 0.658 Ha Infrastructure - 0.546 Ha Plantation - 0.714 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 28056 Te 2018-19 - 39144 Te 2019-20 - 13212 Te 2020-21 - 14212 Te 2021-22 - 15212 Te	2017-18 - 12881 Te 2018-19 - 13127 Te 2019-20 - 12040 Te 2020-21 - 13432 Te 2021-22 - 6290 Te	
3q	General remarks of inspecting officers on method of mining etc.			Benches were developed and maintained more than 3m height and the haul road gradient were not maintained properly. Violation pointed out as per rule.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	OB dump proposed	Dumping done outside the mining lease area.	
4b	Location of topsoil, OB and mineral reject dumps	Within and outside mining lease area	Dumping done outside lease area	
4c	Number of dumps within lease area and outside of lease area	Within lease - 01 dump Outsided lease - 01 dump	Within lease - 01 dump Outsided lease - 01 dump	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	One	One	

4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			Dumping done outside the mining lease area. Violation pointed out as per rule.

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 proposal	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No area of the mine is excavated upto the ultimate pit limit to start backfilling.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted in time	Submitted in time
6b	Area available for rehabilitation (ha) .	No proposal	Nil
6c	afforestation done (ha).	2021-22 - 0.088 Ha	2021-22 - 0.08 Ha
6d	No. of saplings planted during the year	2021-22 - 100 Nos.	2021-22 - 138 Nos.
6e	Cumulative no .of plants	No proposal	Nil
6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	No proposal	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environmental monitoring of core and buffer zone.	Quarterly environmental monitoring carried out during the year 2021-22.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Greenbelt development is well developed within the lease area to maintain the aesthetic beauty.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting proposed	Grade wise sorting done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Less than 25% and above 25%	Sorting done as per proposal	

7d	Any beneficiation process at mines .	Screening proposed for seggregation of different sizes of ore	Screening done for seggregation of different sizes of ore	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Manual sorting and blending being done to get the desired grade.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dump proposed	Seperated dump for overburden done outside lease area. Violation pointed out as per rule.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100 saplings to be planted in 0.08 Ha	130 saplings planted in 0.08 Ha	

8g	Survival rate	No proposal	68%	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust suppression.	Water tankers provided for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Greenbelt development is well developed within the lease area to maintain the aesthetic beauty.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted in time	Submitted in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining Engineer - Sri. D K Sahu Geologist - Sri Durga Prasad	Manager & Mining Engineer - Sri. D K Sahu Geologist - Sri Durga Prasad	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit - 2.0915 Ha Waste dump - 0.7154 Ha Others - 0.589 Ha	Pit - 2.0915 Ha Others - 0.589 Ha	
9d	Scrutiny of Annual return on afforestation	130 Nos.	130 Nos.	
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	Opening balance - 310 Te Closing balance - 170 Te	Opening balance - 310 Te Closing balance - 170 Te	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex-mine price reported as Rs.3266/- and cost of production is Rs.4791/-	The ex-mine price reported as Rs.3266/- and cost of production is Rs.4791/-	

9h	Scrutiny of Annual return on fixed assets	The value of fixed assets is reported as Rs.43678749/-	Value of fixed assests couldn't be verified.
9k	Scrutiny of Annual return on mining machineries	Shovel - 02 Nos. Front End loader - 01 No. Drill machine - 01 No. Tipper - 04 Nos.	Shovel - 02 Nos. Front End loader - 01 No. Drill machine - 01 No. Tipper - 04 Nos.

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 34(1)	24-APR-23			
MCDR17	Rule 11(1)	24-APR-23			

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines