

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

**MCDR inspection REPORT  
Hyderabad regional office**

**Mine file No :** AP/VZNR/Mn-142/Hyd

**Mine code :** 40APR20095

- (i) Name of the Inspecting : **RK13** ) **A.V.Ramesh Kumar**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri K rishna Rao, Mines Manager & Sri Sundara Kumar Ge  
Official with  
Designation
- (iv) Date of Inspection : 14/08/2021
- (v) Prev.inspection date : 05/03/2020

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **ROBO MANGANESE MINE**
- (b) **Registration NO.** : **IBM/22004/2017**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : VIZIANAGARAM
- Village : D.GADABAVALASA
- Taluka : THERLAM
- Post office : SATHANAVALSA
- Pin Code : 532127
- FAX No. :
- E-mail : bompl2010@gmail.com
- Phone : 9121764144, 9440526096
- (f) Police Station : CHIPURUPALLI
- (g) First opening date : 13/12/2017
- (h) Weekly day of rest : SUN
2. Address for : Villa No.27, The Trails,Lanco Hills,  
correspondance Manikonda,Hyderabad  
Telangana State
3. (a) Lease Number : **T---**
- (b) Lease area : **4.747 ha**
- (c) Period of lease : **50 years**
- (d) Date of Expiry : **27.11.2067**
4. Mineral worked : MANGANESE ORE Main

## 5. Name and Address of the

Lessee : M/s BLUE OCEAN MINERALS PVT LIMITED  
 Plot No.5, H.No:8-3-677/19  
 Sri krishna Devaraya Nagar,  
 Hyderabad HYDERABAD  
 TELANGANA  
 Phone:  
 FAX :

Owner : C V SUBBARAO  
 PLOT NO.5, H.NO.8-3-677/19  
 SRI KRISHNA DEVARAYA NAGAR  
 HYDERABAD HYDERABAD  
 TELANGANA  
 Phone:  
 FAX :

Agent : A.RAMESH CHANDRA  
 Plot No.5, H.No:8-3-677/19,  
 Sri Krishna Devaraya Nagar,  
 Hyderabad HYDERABAD  
 TELANGANA  
 Phone: 9121764144  
 FAX :

## Mining Engineer

Name : P S K KISHORE, Full Time  
 Qualification : B TECH MINING  
 Appointment/ : 08/05/2018  
 Termination date

## Geologist

Name : v Sundara Kumar, Full Time  
 Qualification : MSc geology  
 Appointment/ :  
 Termination date

## Manager

Name : K KRISHNA RAO  
 Qualification :  
 Appointment/ : 13/12/2017  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP under 16(1) of MCR 2016 28/06/2017

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	It was proposed to drill 4 boreholes during the year 2020-21.	No drilling was carried out during the year 2020-21.	A violation letters dated 17.8.2021 was issued to the lessee.
1b	Exploration over lease area for geological axis 1 or 2	It was proposed to drill 4 boreholes during the fourth year of the block period to know the depth persistence of the mineral.	The potentially mineralised area is under G1 level of exploration	None
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	None	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	The entire potentially mineralised area is under G1 level of exploration.	None
1e	Balance reserve as on 01/04/20	---	The reserves as on 1.4.2021 are 2.22 Million tonnes. The remaining resources as on 1.4.2021 are 1,20,000 tonnes	None
1f	General remarks of inspecting officers on geology, exploration etc	---	It was proposed to drill 04 boreholes during the year 2020-21. However, no drilling was carried out.	A violation letter for the same was issued on 17.8.2021.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	It was proposed to be developed between gridlines of E 90 to E 250.	The mining operations being carried out as proposed.	None

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes it was proposed to develop separate benches in OB and ore.	As proposed separate benches are developed in ore and OB.	Six benches with a height of 3 meters in OB and two benches in ore with a height of 2 meters were developed.
2c	Stripping ratio or ore to OB ratio	1:1.29	1:3	None
2d	Quantity of topsoil generation in m3	1950 cu.meters	1900 cu.meters	None
2e	Quantity of overburden generation in m3	It was proposed to generate 15564 Cu.meters of OB during 2020-21.	The actual OB generated was 40,000 Cu.meters during the year 2020-21.	The generation of OB was on higher side as the ore body has dipped steeply and additional OB has to be handled.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	----	None	None

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One Pit	The dimensions of the pit were 280 metersx45 metersx22 meters.
3b	Quantity of ROM mineral production proposed	24000 tonnes	23660 tonnes	None
3c	Recovery of saleable/usable mineral from ROM production	66% recovery was proposed.	It was noticed that the saleable ore recovery is between 65-67%.	None
3d	Quantity of mineral reject generation	It was proposed to generate 4523 tonnes during 2020-21	The lesse has reported that during the year 2020-21, no mineral reject was generated.The ROM produced was sorted into different grades and stacked.	None
3e	Grade of mineral rejects generation and threshold value declared.	None	None	None

3f	Quantity of sub grade mineral generation.	None	None	None
3g	Grade of sub grade mineral generation	None	None	None
3h	Manual / Mechanised method adopted for segregating from ROM	It was proposed to sort by manual method	The same was observed during the inspection.	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	None
3j	Provision of drilling and blasting in mineral benches	No drilling and blasting was proposed	No drilling and blasting activities were noticed during the inspection.	None
3k	Provision of mining machineries in mineral benches	It was proposed to use 2 Back hoe of 0.900 cu.meters capacity for excavating the ROM	The excavation being carried out as proposed.	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to carry out mining by developing benches with a height of 3 meters and width of 3.5 meters.	Benches developed as proposed.	None
3m	Total area covered under excavation/pits	---	The area covered under excavation is 1.30 ha	None
3n	Ore to OB ratio for the pit/mine during the year.	1:1.29	1:3	None
3o	Total area put in use under different heads at the end of year	----	The total area put under various heads is as follows: 1. area under mine workings 1.30 ha 2. Area under waste dump - 1.350 ha	None

3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 24000 tonnes 2018-19 - 24000 tonnes 2019-20 - 24000 tonnes 2020-21 - 24000 tonnes	2017-18 - 3295 tonnes 2018-19 - 23732 tonnes 2019-20 - 23670 tonnes 2020-21 - 23660 tonnes	No excess production than the proposed quantity was reported.
3q	General remarks of inspecting officers on method of mining etc.	---	None	The development of the mine is done as proposed.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	It was proposed to have seperate dump for OB.The topsoil generated was proposed to be used for plantation.	A seperate dump was developed as proposed and the topsoil generated was used for plantation purpose.	None
4b	Location of topsoil, OB and mineral reject dumps	Northern side of the lease.	Developped as proposed.	None
4c	Number of dumps within lease area and outside of lease area	One	One	None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The dump is located on the Northern sied of the lease.	Developed as proposed.	None
4e	Number of active and alive dumps.	One	One	None
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	One	One	None
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	yes	None
4i	Length of Retaining wall or garland drain all along dumps	170 meters	170 meters	None

4j	Number of settling ponds	None	None	None
4k	Specific comments of inspecting officer on waste dump management	None	None	None

#### 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 area matured for reclamation duiring the year 2020-21	No reclamation done during the year 2020-21.	None
5b	Area under backfilling of mined out area	None	None	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None	None	None
5d	Total area fully reclaimed and rehabilitated	None	None	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	None

#### 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 the annual report on PMCP submitted by the lessee to this office.	None
6b	Area available for rehabilitation (ha) .	None	None	None

6c	afforestation done (ha).	0.02 ha	0.02 ha	None
6d	No. of saplings planted during the year	50 no.s	4500 no.s	None
6e	Cumulative no .of plants	--	6000 no.s	None
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	--	It was reported by the lessee that about Rs.2,50,000/- expenditure was incurred during the year 2020-21.	None
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	None	None	None
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	None	None	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None	None
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	None	None



6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None	None	None
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	None	None
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	None	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	It was proposed to carry out environmental monitoring regularly in core and buffer zones.	Regular environmental monitoring being carried out by the lessee in both core and buffer zones.The parameters are within the permissible limits.	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	---	None	The plantation as proposed has been carried out by the lessee during the year 2020-21.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	24000 tonnes	23660 tonnes	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	None
7c	Different grade of mineral sorted out at mines.	1.less than 25% Mn 2. Mn% between 25-35%.	The same was noticed during the inspection.	None

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7d	Any beneficiation process at mines	None	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	None	None	None

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	It was proposed to utilise the topsoil generated for plantation purpose.	Same was noticed during the inspection.	None
8b	Concurrent use or storage of topsoil	For Plantation purpose.	used for plantation in the 7.5 meter barrier zone.	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	A seperate dump was established on the Northern side of the lease	A single dump on the northern side of the lease observed during the inspection.	None
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	None	None	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	None	None

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	--	Except for the plantation made by lessee no other vegetation was noticed.	None
8g	Survival rate	80%	80%	None
8h	Water sprinkling on roads to control airborne dust	it was proposed to carry out water sprinkling for dust suppression.	the same was noticed during the inspection.	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	None	None

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	---	The lessee is submitting the Monthly and Annual returns regularly to this office.	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per the Annual return 2020-21, Sri K Krishna Rao and Sri Sundara Kumar are reported as the Mining Engineer and geologist respectively.	The same was noticed during inspection.	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	As per the Annual return the area under mine workings was 1.30 ha and under waste dump was 1.350 ha and 0.100 under infrastructure	The same was noticed during the inspection.	None

9d	Scrutiny of Annual return on afforestation	As per the Annual return, during the year about 4500 no.s were planted during the year.	The same was confirmed during the inspection.	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None	None	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The ROM reported during the year 2020-21 as per Annual return was 23660 tonnes	The same was confirmed during the inspection.	None
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex-mine price reported during the year 2020-21 was Rs.3858.50 per tonne for below 25% Mn and Rs.8102.57 per tonne for 25-35% Mn.	The same was confirmed during the inspection.	None
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported during the year 2020-21 was Rs.4,63,12,463 /-	The same was not verified.	None
9k	Scrutiny of Annual return on mining machineries	As per the annual return 2020-21, following mining machinery was reported to be in use 1. Back Hoe of capacity 0.900 Cu.meters - 2 no.s 2. A water tanker	The same was noticed during the inspection along with a water tanker for sprinkling of water.	None

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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 11(1)	17/08/2021			

**Date :**

**(A.V.Ramesh Kumar)**

Indian Bureau of Mines