

**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 : S11) SHAILENDRA KUMAR
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : SRI A RAMESH CHANDRA, AGENT(MINES) & SRI PSK KISHORE, M
Official with
Designation
- (iv) Date of Inspection : 05/03/2020
- (v) Prev.inspection date :

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 : blueoceanminerals@gmail.com
- Phone : 9121764144
- (f) **Police Station** : CHIPURUPALLI
- (g) **First opening date** : 13/12/2017
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : Plot No.5, H.No:8-3-677/19,
Sri krishna Devaraya Nagar, Hyderabad
Telangana State-500 073
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
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

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	No exploration proposed during the year 2018-19	No exploration was carried out during 2018-19	No comments
1b	Exploration over lease area for geological axis 1 or 2	----	The entire lease area is covered under G1 level of exploration.	No comments
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	None	None
1e	Balance reserve as on 01/04/20	---	0.35 Million tonnes	No comments
1f	General remarks of inspecting officers on geology, exploration etc	None	None	No comments. The entire lease area is covered under G1 level of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	The Mining operations are proposed between gridlines E 80 to E 250.	The Mining operations are being carried out as proposed.	No comments
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to make 4 benches in OB and three in Ore.	During the inspection, four benches in OB and three in ore have been observed.	No comments
2c	Stripping ratio or ore to OB ratio	1:1.22	1:3	No comments
2d	Quantity of topsoil generation in m3	2000 Cu.Meters	2500 Cu.meters	No comments

2e	Quantity of overburden generation in m3	12000 Cu.meters	14500 Cu.meters	No comments
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	---	--	Due to merging, formation of high wall benches were observed. Accordingly, a violation letter was issued to the lessee.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit with dimensions of 270metersx45 metersx21 meters.	No comments
3b	Quantity of ROM mineral production proposed	24000 tonnes	23732 tonnes	No comments
3c	Recovery of sailable/usable mineral from ROM production	65% recovery was proposed.	It was noticed that the saleable ore recovery is between 65-67%.	No comments
3d	Quantity of mineral reject generation	It was proposed to generate 4700 tonnes of Mineral reject during the year 2018-19.	The lessee has reported that during theyear 2018-19 no mineral reject was generated.The ROM generated was sorted into different grades and stacked.	No comments
3e	Grade of mineral rejects generation and threshold value declared.	---	None	No comments
3f	Quantity of sub grade mineral generation.	---	None	No comments
3g	Grade of sub grade mineral generation	--	None	No comments
3h	Manual / Mechanised method adopted for segregating from ROM	It was proposed to sort the ore by way of Manual sorting and sizing.	Manual sorting and sizing was noticed.	No comments

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	No comments
3j	Provision of drilling and blasting in mineral benches	No drilling and blasting was proposed.	No drilling and blasting was noticed during the inspection.	No comments
3k	Provision of mining machineries in mineral benches	It was proposed use 2 Back Hoe of 0.900 Cu.M for excavating the material.	During the inspection two back hoe were noticed in the lease.	No comments
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.	Due to merging high wall benches were observed and accordingly a violation letter was issued to the lessee.	Due high wall benches, a violation letter was issued to lessee.
3m	Total area covered under excavation/pits	1 ha	1.1 ha	No comments
3n	Ore to OB ratio for the pit/mine during the year.	1:1.22	1:3	No comments
3o	Total area put in use under different heads at the end of year	--	The are under pit - 1.1 ha Waste Dump - 0.197 ha Infrastructure- 1 ha.	No comments
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 2400 tonnes 2018-19 - 24000 tonnes	2017-18 - 3295 2018-19 - 23732 tonnes	No comments
3q	General remarks of inspecting officers on method of mining etc.	--	--	There is deviation in maintaining bench height.A violation letter issued to lessee.

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)	It was proposed to utilise the topsoil generated for afforestation. The OB was proposed to be dumped on Northern side of the lease.	The topsoil generated is being utilised for plantation. The OB generated is being dumped on the Northern part of the lease.	No comments
4b	Location of topsoil, OB and mineral reject dumps	One OB dump on Northern part of the lease.	One OB dump on Northern side of the lease was observed.	No comments
4c	Number of dumps within lease area and outside of lease area	One dump	One dump	No comments
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	One dump proposed on the Northern side of the lease.	One dump on the Northern side of the lease was noticed.	No comments.
4e	Number of active and alive dumps.	One	One	No comments
4f	Number of dead dumps.	Nil	Nil	No comments
4g	Number of dumps established.	One	One	No comments
4h	Whether Retaining wall or garland drain all along dumps are there.	One retaining wall was proposed.	One retaining wall of 170 meters length was noticed.	No comments
4i	Length of Retaining wall or garland drain all along dumps	170 meters	170 meters	No comments
4j	Number of settling ponds	None	None	No comments
4k	Specific comments of inspecting officer on waste dump management	---	--	No comments

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not applicable	None	No comments
5b	Area under backfilling of mined out area	Not applicable	None	No comments
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None	None	No comments
5d	Total area fully reclaimed and rehabilitated	None	None	No comments
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	No comments.

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 comments
6b	Area available for rehabilitation (ha) .	None	None	No comments
6c	afforestation done (ha).	250 saplings during the year 2018-19	Lessee reported to have planted 1200 no.s of saplings.	No comments
6d	No. of saplings planted during the year	250	1200	No comments
6e	Cumulative no .of plants	--	1450 no.s	No comments
6f	Any other method of rehabilitation	None	None	No comments
6g	Cost incurred on watch and care during the year	--	Rs.250,000/- during the year 2018-19	No comments

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None	Not applicable	No comments
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	Not applicable	No comments
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	None	Not applicable	No comments
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	Not applicable	No comments
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	Not applicable	No comments
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None	Not applicable	No comments
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	Not applicable	No comments
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	Not applicable	No comments

6p	Compliance of environmental monitoring (core zone and buffer zone)	it was proposed by lessee to carry out Environmental Monitoring in core and buffer zone.	The lessee has carried out Environmental monitoring of various parameters and found to be within permissible limits.	No comments
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	None	None	No comments

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed to produce 24000 tonnes during 2018-19	The actual production reported during the year 2018-19 was 23732 tonnes	No comments
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	It was proposed to sort the ore by way of Manual sorting and sizing	During the inspection the same was noticed.	No comments
7c	Different grade of mineral sorted out at mines.	The different grades sorted are between 10-15% MN, 15-20% , 20-25% & > 25% MN.	Different stacks with above mentioned grades were observed duiring the inspection.	No comments
7d	Any beneficiation process at mines	None	None	No comments
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	None	None	No comments

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	It was proposed to utilise the topsoil generated for afforestation.	The topsoil generated during the year was reported as 2500 Cu.meters.	No comments
8b	Concurrent use or storage of topsoil	None	None	No comments
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One dump proposed on Northern side of the lease.	One dump was noticed on Northern side of the lease.	No comments
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	None	None	No comments
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	None	No comments
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	--	Except for the plantation undertaken by lessee no other vegetation was noticed	No comments
8g	Survival rate	80%	70%	No comments
8h	Water sprinkling on roads to control airborne dust	It was proposed to carry out dust suppression measures by way of water sprinkler	During the inspection, dust suppression measures have been taken up using water sprinkling on hualage road.	No comments
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	None	No comments

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	--	The lessee is submitting Monthly returns and Annual returns regularly.	No comments
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per the Annual return 2018-19, the mining engineer is Sri PSK Kishore.No Geologist was employed.	A violation letter has been issued to lessee for non appointment of geologist.	No comments
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	--	Area under Working pits - 1.1 ha Area under Waste dump - 0.197 ha Area under Infrastructure - 0.100 ha	No comments
9d	Scrutiny of Annual return on afforestation	--	As per the Annual return 2018-19, the lessee has reported that he has carried out plantation of 1200 No.s	No comments.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None	None	No comments
9f	Scrutiny of Annual return on ROM stock and/or graded ore	--	The lessee has reported 23732 tonnes during 2018-19.	No comments.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	--	The ex-mine price reported in the Annual return for the year 2018-19 is Rs.3448/- for MN% less than 25% and Rs.6496/- for MN% 25-35%.	No comments
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets as 4.6 crores.	Same was observed in the annual return	No comments
9k	Scrutiny of Annual return on mining machineries	As per the Annual return 2018-19, Two Back Hoe of 0.900 Cu.M has been reported.	The same have been noticed in the lease.	No comments

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)	13/03/2020				
MCDR17 Rule 55(1)(1)	13/03/2020				

Date :

(**SHAIENDRA KUMAR**)

Indian Bureau of Mines