INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/ADB/MN-30/HYD Mine code : 40APR01018

(i) Name of the Inspecting : 25) SHRI IBRAHIM SARIF

Officer and ID No.

(ii) Designation : Sr. Asst. Contrl. Mines

(iii) Accompaning mine : SRI RAMESH LESSEE REPRESENTATIVE

Official with Designation

(iv) Date of Inspection : 31-DEC-20
(v) Prev.inspection date : 17-JAN-20

PART-I : GENERAL INFORMATION

1. (a) Mine Name : BHORAJ(122.65 HA)

(b) Registration NO. : IBM/733/2011

(e) Postal address

State : TELANGANA
District : ADILABAD

Village :
Taluka :
Post office :
Pin Code :
FAX No. :
E-mail :

Phone : 9822033153

(f) Police Station :

(g) First opening date : 17-APR-15

(h) Weekly day of rest : SUN

2. Address for : M/s Balaji Electro Smelters Ltd.,

correspondance Post Box 26, Plot No.B-18, MIDC, LOHARA

YAVATMAL-445001

3. (a) Lease Number : APR2411
(b) Lease area : 122.59
(c) Period of lease : 20

(d) Date of Expiry : 13-JUL-29

4. Mineral worked : MANGANESE ORE Main

PAGE : 2

5. Name and Address of the

Lessee : BALAJI ELECTRO SMELTERS LTD

PLOT NO.B-18, MIDC YEOTMAL

MAHARASHTRA

Phone:07232 245048

FAX :

: BALAJI ELECTRO SMELTERS LTD. Owner

PLOT NO. 18, MIDC, LOHARA

YEOTMAL MAHARASHTRA Phone: 07232 245048 FAX : 07232 244048

6. Date of approval of Mining : MP review under 17(1) MCR 2016 03-NOV-16 Plan/Scheme of Mining MP review under 17(1) MCR 2016 03-MAY-19

PAGE : 3

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	4 bore holes to be drilled in 2019-20	No exploration done	violation is pointed out
1b	Exploration over lease area for geological axis 1 or 2	4.0 На	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	120.92 ha	120.92 ha	
1e	Balance reserve as on 01/04/20	111- 15,527 Tonnes Reserves depleted during 2019- 20= 1888.8 tonnes balance Reserves = 13,640.2 Tonmnes	111- 15,527 Tonnes Reserves depleted during 2019-20= 1253 tonnes balance Reserves = 14,274 Tonmnes	E C

1f General remarks of inspecting officers on geology, exploration etc

Manganese ore in this belt occurs as a thin band (20 cms to 70 cms) interbanded with chert and jasper between the two limestone beds. The lime stones are highly siliceous . The ore zone within itself contains bands of jasper / chert and is highly jointed. The ore body is highly friable, striking along NW-SE direction and dips at angle varying between 3° to 30°. So far 1.65 Ha potential mineralised area has been explored in G1 scale. balance area to be explored for absence of mineral.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	proposed to carry out in between grid- N2183695- 2183885 &	It is observed that mining operations are being carried out within safety zone of 7.5 meters of lease boundary at BP-C18 in between grid N2183678- 2183682 & E241864-241878 beyond approved proposals	
2b		Separate benches for Overburden and Mineral is proposed	Seperate benches of OB & Mineral are developed	
2c	Stripping ratio or ore to OB ratio	1 : 7.5	1 : 4.15	

2d	Quantity of topsoil generation in m3	4262cum	No details furnished
2e	Quantity of overburden generation in m3	7240 cum/18100 Tonnes	5212 Tonnes
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Mining operations especially waste development is being carried out by using backhoe without any approved proposals

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	3447.8 Tonnes	1253 Tonnes	
3с	Recovery of sailable/usable mineral from ROM production	salable is 80%	100%.	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	as Threshold value. No	No mineral reject reported	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	NA	Nil	

3h	Manual / Mechanised method adopted for segregating from ROM	Segregation is to be done Manually	Manual segregation is being done
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA
3 j	Provision of drilling and blasting in mineral benches	Jackhammer drilling machine of 33 m dia is proposed to be used & blasting is being carried out by using ANFO with detonators	Drilling & blasting operations are being carried out as per proposals
3k	Provision of mining machineries in mineral benches	No proposal	NIL
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	1.5 meters height is suitable for this type of deposit	Yes suitable
3m	Total area covered under excavation/pits	1.19 ha	0.19 as reported by lessee and SURFACE Plan was not updated
3n	Ore to OB ratio for the pit/mine during the year.	1 : 7.5	1 : 4.15
30	Total area put in use under different heads at the end of year	1.63 На	Total area to be ascertained as surface plan was not yet updated 0.85 as reported by lessee

3p	during the last	2017-18 2002 2018-19 2043	2015-16 00 2016-17 144 Tonnes 2017-18 2190 Tonnes 2018-19 1729 Tonnes 2019-20 1253 Tonnes
3q	General remarks of inspecting officers on method of mining etc.	is proposed by carrying out	Mining operations are being carried out by using Back hoe.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)		Backfilling and spreading of waste and Top soil is being carried out.	
4b	Location of topsoil, OB and mineral reject dumps	No top soil dump and waste dump proposed	Nil	
4c	Number of dumps within lease area and outside of lease area	No dump	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal, waste is being utilised for backfilling of mined out area		
4e	Number of active and alive dumps.	No proposal	Nil	

4f	Number of dead dumps.	No proposal	Nil
4 g	Number of dumps established.	no proposal	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.		Not applicable
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		Waste generated is being urilised for backfilling of mined out area, over which top soil will be spread to make the land suitable for agricultural purpose

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.	Full Extraction of ore before backfilling	Full Extraction is being done	
5b	Area under backfilling of mined out area	Nil	about 0.27 Ha during the year	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes, top soil is to be spread in a proper manner over backfilled area so that the land is restored to its near to the original condition for cultivation.	Top soil generation is not furnished, during year no reclamation has been carried out.
5d	Total area fully reclaimed and rehabilitated	No proposal during the year	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The mined out area is being backfilled by waste siliceous limestone to bring it in to original ground level and restore the area by spreaing of Top soil to premining condition.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted	Not submitted	Viuolation pointed out
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.26 Ha	0.13 Ha	
6d	No. of saplings planted during the year	117 sapplings	60 sapplings	
6f	Any other method of rehabilitation	Not Proposed	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)Afforestati on on backfilled area	NO proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
61	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	on safety zone	60 sapplings carried out
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil

60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	
бр	Compliance of environmental monitoring (core zone and buffer zone)	to be done	No monitoring is being carried out	Vilation is pointed out
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Plantation is being carried out to improve aesthetixc beauty.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM generated is to be sorted and sized manually and dispatched	Entire ROM generated is being sorted and sized manually and dispatched	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Grade wise srting & sizing is to be caried out manually to obtain required grade of Ore	Sorting & sizing is being done manually	
7d	Any beneficiation process at mines	No proposal	Nil	

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7e General remarks
of inspecting
officer on
Mineral
conservation and

issues

beneficiation

ROM generated is subject to sorting & Sizing manually. Entire ROM generated is reported to have been dispatched

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	has to be	Top soil is being utilised for restoration of land	Lessee was asked to provide the details of top soil
8b	Concurrent use or storage of topsoil	Yes Proposed to store the top soil temporarily and to be utilised for spreading over backfilled area	Top soil is being stacked seperately and utilised over backfilled area	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No genration of Mineral reject is anticipated. Further no separate dumps for waste is proposed as it is utilised for backfilling	As proposed	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use		5212 tonnes of waste generated was backfilled	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Mined out area is being backfill by waste and levelled. The top soil to be sprad as top layer and restore to ground levelbring utilised	Reclamation is being carried out as per approved proposals.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation in the area is scary additinal plantation of 117 spplings to be planted	60 sapplings were planted during the year.
8g	Survival rate		40%
8h	Water sprinkling on roads to control airborne dust	sprinkliung	water sprinkling arrangements are observed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		The mined out area is being backfilled, levelled and make it sutable for Agriculture. To improve the aesthetic beauty plantation is being carried out by lessee.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. and A. R to be submitted regularly	M.R. Submitted up to November 2020 A. R submitted up to YEAR 2019-20	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining Engineer : Sri Ravi zade	No Manager & Mining Engineer is employed	Violation is pointed out
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Reclaimed - 0.17 ha Infrastructure	Area put to use is on lower side and additional area reclaimed is not furnished for the year.	violation was pointed out for land use details
9d	Scrutiny of Annual return on afforestation	60 plants	60 Plants	
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	Mn - 0.55	As submitted by the lessee.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	<35% Mn = Rs.	The mineral is being used for captive consumption, the Ex mine price should be furnished as Cost of Production.	Violation is pointed out.
9h	Scrutiny of Annual return on fixed assets	Nil	Nil	
9k	Scrutiny of Annual return on mining machineries		AIR COMPRESSOR (25 cum/Min)-1with jack hammer drill	

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			S	Show couse position			
Rule 1	NO.	Issued on	Compliance	on Rule 1	NO. Issued	on Compliance	on
MCDR17	Rule 11(1)	03-FEB-21					
MCDR17	Rule 26(2)	03-FEB-21					
MCDR17	Rule 31(4)	03-FEB-21					
MCDR17	Rule 43	03-FEB-21					
MCDR17	Rule 45(7)(a) 03-FEB-21					
MCDR17	Rule 55(1)(3) 03-FEB-21					

Date: (SHRI IBRAHIM SARIF)

Indian Bureau of Mines