

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KNL/LST-177/HYD

Mine code : 38APR11128

- (i) Name of the Inspecting : **25**) **SHRI IBRAHIM SARIF**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 14/02/2020
- (v) Prev.inspection date : 30/11/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PALKUR(4.801 HA)**
- (b) **Registration NO.** : **IBM/668/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : ANDHRA PRADESH
District : KURNOOL
Village : PALUKUR
Taluka : BANAGANAPALLI
Post office : PALUKUR
Pin Code : 518124
FAX No. : 08516276242
E-mail : seshasaimining@yahoo.com
Phone : 08516273042
- (f) Police Station : BANGANAPALLI
- (g) First opening date : 02/06/2008
- (h) Weekly day of rest : SUN
2. Address for : B.RAJENDRANATH, MINE OWNER,
correspondance M/S SESA SAYEE MINING COMPANY
BETHAMCHERLA-518599, KURNOOL DISTRICT.
3. (a) Lease Number : APR1927
- (b) Lease area : 4.8
- (c) Period of lease : 20
- (d) Date of Expiry : 15/09/2026
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : B. RAJENDRANATH
 B. RAJENDRANATH, H.NO:10/161
 BETHAMCHERLA, KURNOOL DT.
 KURNOOL ANDHRA PRADESH
 Phone:08516-273023
 FAX :

Owner : B. RAJENDRANATH
 MINE OWNER, H.NO:10/161
 BETHAMCHERLA KURNOOL, AP.
 KURNOOL ANDHRA PRADESH
 Phone: 08516-273042
 FAX :

Manager

Name : A Rami Reddy
 Qualification :
 Appointment/ : 02/06/2008
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	12/04/2006
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	08/11/2012
	:	Mining Scheme rule 12 MCDR1988	20/09/2016

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	Nil	Entire lease area has been explored in G1 scale
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 area proposed for exploration	Nil	Entire lease area has been explored in G1 scale
1e	Balance reserve as on 01/04/20		Mineable Reserves : 1,89,446 Tonnes	As on 01.04.2019
1f	General remarks of inspecting officers on geology, exploration etc	Entire area explored	The formation of the mineral is uniform bedded tupe deposit with lithounits of top soil, limestone. Entire area has been explored in G1 scale	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit-1 North Western and South Western Pit-2 Eastern	As proposal same work is going on	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	One bench in top soil, two benches in ore.	As proposal same work going on.	
2c	Stripping ratio or ore to OB ratio	1:010	1:0.169	
2d	Quantity of topsoil generation in m3	488MT	Nil	
2e	Quantity of overburden generation in m3	2018-19: 3053 MT	2018-19 2750 MT	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Mining operations is being carried out by manual means by maintaining bench height of 3.0 meters. Top Soil in the lese area is about 0.3 to 0.5 meters thick and is incidental. The Top soil if any will be excavated separately and stored in the earmarked place for plantation purpose.	As proposed work carried out in the same section.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Proposed in two pits	Two pits merged in one pit.	
3b	Quantity of ROM mineral production proposed	41,225 MT	16,250 MT	
3c	Recovery of sailable/usable mineral from ROM production	100% recovery considering Bulk density of 2.25Tonnes/cum as this is soft limestone formation	100% recovery with Bulk density of 2.25Tonnes/cum.	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Nil	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No propossal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual sorting and sizing is proposed	Manual sorting and sizing is reported for upgradation of ore as well as for blending purpose as per requirement of industry	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil
3j	Provision of drilling and blasting in mineral benches	Occasional drilling and muffle blasting will be carried out as and when required.	No Drilling and Blasting carried out during the year
3k	Provision of mining machineries in mineral benches	Jack hammer with tractor mounted compressor, Tippers/ Tractors.	Tippers/ Tractors.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3 meters bench height is suitable for this type of deposit	Yes, Suitable
3m	Total area covered under excavation/pits	3.581 Ha	About 3.0 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.10	1:0.02
3o	Total area put in use under different heads at the end of year	Total area covered is 4.801 ha	Total area covered is 4.7 Ha
3p	Production of ROM mineral during the last five year period as applicable	2013-14-31592 tonnes 2014-15-31514 tonnes 2015-16-41225 tonnes 2016-17-41225 tonnes 2017-18-41225 tonnes 2018-19 - 41275 T	It was observed that the actual achievement was 2013-14-16030 tonnes 2014-15-8300 tonnes 2015-16-7667 tonnes 2016-17-10340 tonnes 2017-18-16319 tonnes. 2018-19 - 16250 tonnes

3q General remarks of inspecting officers on method of mining etc. Manual method of mining is being adopted using Jack hammer drill by maintaining bench height of 3.0 meters.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top Soil generated to be stacked separately	No top soil generation during the year	No surface dumping is proposed and simultaneous backfilling is carried out in the mined out area.
4b	Location of topsoil, OB and mineral reject dumps	No proposal	Nil	-do-
4c	Number of dumps within lease area and outside of lease area	No proposal	Nil	No surface dumping is proposed and simultaneous backfilling is carried out in the mined out area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	No surface dumping is proposed and simultaneous backfilling is carried out in the mined out area.
4e	Number of active and alive dumps.	No proposal	Nil	
4f	Number of dead dumps.	No proposal	Nil	-do-
4g	Number of dumps established.	No proposal	Nil	-do-
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil	-do-
4i	Length of Retaining wall or garland drain all along dumps	No proposasl	Nil	-do-
4j	Number of settling ponds	No proposal	Nil	-do-
4k	Specific comments of inspecting officer on waste dump management	No proposal	No surface dumping is proposed and simultaneous backfilling is carried out in the mined out area.	

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 excavation of ore before backfilling	0.10 Ha	Simultaneous backfilling is carried out in the mined out area.
5b	Area under backfilling of mined out area	0.10 ha	0.10 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes proposed for plantation	Top soil not generated during the year	
5d	Total area fully reclaimed and rehabilitated	No proposal	N.A.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mining operations are being carried out by simultaneous backfilling of waste generated. About 0.10 ha area is backfilled.	

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).	Report to be submitted	Yes submitted	
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	
6c	afforestation done (ha).	0.22	150 no of plants	

6d	No. of saplings planted during the year	550 no of plants in safety zone area	150 no of sapplings have been planted in the safety zone area. Balance could not be taken due to non availability of area for plantation within lease
6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	Rs. 12500	Not specified
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	0.10 ha	0.10 ha
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	3053 MT	2500 MT
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Simultaneous backfilling is carried out as per approved proposals. Plantation is being carried out in safety zone of the lease to improve aesthetic beauty

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual sizing and sorting is to be done	Manual sizing and sorting is reported to be carried out	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sizing and sorting	Manual sizing and sorting of all saleable ore is reported to be done	

7c	Different grade of mineral sorted out at mines.	Manual sorting and sizing and approved proposals to blend the entire ore as per requirement in the market	Work carried out as per approved proposals
7d	Any beneficiation process at mines	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		There is no beneficiation process only sorting and sizing done. Entire ore is being sold by manual sorting and sizing

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	488 tonnes	No top soil generated during the year	What ever top soil is generated earlier was utilized for plantation.
8b	Concurrent use or storage of topsoil	Whatever top soil generated earlier is utilized for plantation.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste is used for backfilling	Nil	There is no seperate dump for OB waste and rejects.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	3053 MT waste generated to be utilised for backfilling	2750 MT of waste generated was backfilled.	It was reported that a survival rate of 80% in the Annual Return

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	About 0.1 Ha area is proposed for Backfilling	waste generated is backfilled	cummulatively back filled with 49250 tonnes.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	550 no of plants	150 no of plants	It was reported that a survival rate of 70% in the Annual return.
8g	Survival rate	No proposal	70%	
8h	Water sprinkling on roads to control airborne dust	Yes water sprinkling arrangements are proposed to suppress the dust generated	Water sprinkling arrangements are made for dust suppression	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Plantation are being carried out in safety zone to improve the aesthetic beauty. Dust suppression arrangements is there to suppress the dust.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted Monthly, Annual returns.	Submitted Monthly, Annual returns.	Submitted Monthly, Annual returns.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Braha Naidu Mines, Jilani Mining Enginner, G Harendra, Geologist.	Braha Naidu Mines, Jilani Mining Enginner, G Harendra, Geologist.	Braha Naidu Mines, Jilani Mining Enginner, G Harendra, Geologist.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings :3.581 Ha, Occupied by plant, buildings, residential, welfare buildings & roads :1.22 Ha	Covered under current (O/C) Workings :3.581 Ha, Occupied by plant, buildings, residential, welfare buildings & roads :1.22 Ha	Current workings
9d	Scrutiny of Annual return on afforestation	150 no of plants	150 no of plants	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not given	Not given	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	16250 tonnes	16250 tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price Rs. 330/- cost of production 170/-	Ex mine price Rs. 330/- cost of production 170/- As reported by lessee	
9h	Scrutiny of Annual return on fixed assets	No details furnished	Yes	
9k	Scrutiny of Annual return on mining machineries	B category manual mining method.	B category manual mining method.	

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

Date :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines