

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : Sri Sreenivasulu, Mines manager
Official with
Designation
- (iv) Date of Inspection : 25-JAN-21
- (v) Prev.inspection date : 14-FEB-20

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-JUN-08
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : B.RAJENDRANATH, MINE OWNER,
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-SEP-26
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-JUN-08
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	12-APR-06
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	08-NOV-12
		Mining Scheme rule 12 MCDR1988	20-SEP-16

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	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil for the year	So far Rs. 1.0 lakhs spent for exploration
1d	Balance area to be explored to bring Geological axis in 1 or 2	No area proposed for exploration	Nil	
1e	Balance reserve as on 01/04/20		Mineable Reserves : As on 01.04.2016 2,32,425 Tonnes Production during 2016-17 to 2019-20 =59,159 Tonnes Balance reserves : 1,73,226 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc		The formation of the mineral is uniform bedded 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 development is being done.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	One bench in top soil, two benches in ore.	As proposal development is being done.	

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	2019-20: 3053 MT	2019-20: 2000 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 excavated Top soil is being stored in the earmarked place for further plantation purpose.

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	15,630 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	Nil	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Nil
3f	Quantity of sub grade mineral generation.	Not applicable	Nil
3g	Grade of sub grade mineral generation	Not applicable	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 are to be deployed	Jack hammer with tractor mounted compressor, Tippers are deployed to work by manual means.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3 meters bench height is suitable to carry out mining operation by manual mining.	Yes, Suitable to carry out mining operation by manual mining
3m	Total area covered under excavation/pits	3.581 Ha	About 3.0 Ha

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 4.801 Ha
3p	Production of ROM mineral during the last five year period as applicable	2015-16-41225 Tonnes 2016-17-41225 Tonnes 2017-18-41225 Tonnes 2018-19 - 41275 Tonnes 2019-20 - 41225 Tonnes	It was observed that the actual achievement was 2015-16-7667 tonnes 2016-17-10340 tonnes 2017-18-16319 tonnes. 2018-19 - 16250 tonnes 2019-20 - 15,630 tonnes
3q	General remarks of inspecting officers on method of mining etc.		Manual method of mining is being adopted using Tipers, 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	
4b	Location of topsoil, OB and mineral reject dumps	1706773-1706876N, 205536- 205690 E	Dumping carried out as per approved proposals	
4c	Number of dumps within lease area and outside of lease area	No proposal	No dumps observed, backfilling is being carried out in worked out benches	No dumping is proposed, 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	
4e	Number of active and alive dumps.	No proposal	Nil	

4f	Number of dead dumps.	No proposal	Nil
4g	Number of dumps established.	No proposal	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Not applicable	Nil
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Nil
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management		No dumping is proposed as simultaneous backfilling is carried out in the mined out area.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	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 is proposed	Yes after full excavation backfilling by waste material is being carried out	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 to utilise it for plantation	No Top soil generated during the year.	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	

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 during the year 2019-20..
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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).	Yearly report on PMCP to be submitted	Yes submitted	
6b	Area available for rehabilitation (ha) .	0.10 Ha	0.10 Ha	
6c	afforestation done (ha).	0.22 Ha	0.22 Ha, 150 no of plants	
6d	No. of saplings planted during the year	800 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	Rs. 7500	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx 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	2750 MT	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring is to be carried out regularly		Environment Monitoring is being done.
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 done 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	Entire ROM ore of 41225 MT is to be dispatched	15630 MT of Ore was dispatched.	
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 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 in the market after blending.
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Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	488 tonnes	No top soil generated during the year	
8b	Concurrent use or storage of topsoil	The top soil generated is to be utilized for plantation.	No top soil generated	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There is no separate dump for OB waste and rejects.	Waste is used for backfilling	
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	Yes 2000 MT of waste was backfilled in mined out area.	
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	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Additional 800 no of plants	150 no of plants	Due to non availability of area plantation could not be achieved.
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 is being carried out in safety zone to improve the aesthetic beauty. Dust suppression arrangements is being done to suppress the air borne dust.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly & Annual returns to be submitted regularly	Monthly & Annual returns is being submitted regularly	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge S JILANI [PART TIME] Geologist in charge MR.SREEDHR BHAT [PART TIME]	Mining Engineer in charge S JILANI [PART TIME] Geologist in charge MR.SREEDHR BHAT [PART TIME]	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings : 3.85 HA, Occupied by plant, buildings, residential, welfare buildings & roads : 1.25 Ha	More or less the above said area is utilised for mining and allied activities
9d	Scrutiny of Annual return on afforestation	150	more or less planted
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	Rom : Nil, Graded Ore : 7530 MT	Stack found in the lease area, but quantity could not be ascertained.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-Mine Price : Rs.330, Cost of Production: Rs. 179/ MT	As reported by lessee
9h	Scrutiny of Annual return on fixed assets	Rs. 2000000	As reported by lessee

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

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines