

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KNL/LST-90/HYD

Mine code : 38APR11049

- (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 : 16/03/2020
- (v) Prev.inspection date : 06/11/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MALKAPURAM**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : ANDHRA PRADESH
District : KURNOOL
Village : CHINNAMALKAPURAM
Taluka : DHONE
Post office : DHONE
Pin Code : 518222
FAX No. :
E-mail :
Phone : 08516-222069
- (f) Police Station :
- (g) First opening date : 01/04/1976
- (h) Weekly day of rest : SUN
2. Address for : I SREERAMULU
correspondance : PATHAPETA
DHONE, KURNOOL DISTRICT.
3. (a) Lease Number : APR1287
- (b) Lease area : 16.25
- (c) Period of lease : 10
- (d) Date of Expiry : 05/08/1999
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : I. SREE RAMULU.
 I.SREE RAMULU POST: DHONE
 DIST: KURNOOL. KURNOOL
 ANDHRA PRADESH
 Phone:
 FAX :

Owner : I.SREE RAMULU
 I.SREE RAMULU POST:DHONE
 DIST:KURNOOL.. KURNOOL
 ANDHRA PRADESH
 Phone: 08516-222069
 FAX :

Manager

Name : P.SESHAIAH
 Qualification :
 Appointment/ : 01/08/2004
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	20/01/1998
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	09/05/2008
		Mining Scheme rule 12 MCDR1988	29/09/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	4 DTH bore holes	3 DTH bore holes	Entire lease area has been covered under G1 Scale
1b	Exploration over lease area for geological axis 1 or 2	Exploration to be completed in G1 scale	Exploration carried out in G1 scale	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	About Rs. 6.0 Lakhs.	
1d	Balance area to be explored to bring Geological axis in 1 or 2		No area is left for further exploration	
1e	Balance reserve as on 01/04/20		111 : 1,39,303 MT 221 & 222 : 68,806 MT	As on 01.04.2020 as per reserves reassessed in the recent Modified Mining plan approved
1f	General remarks of inspecting officers on geology, exploration etc		Entire lease area has been explored in G1 scale by quarrying, Pitting and DTH bore holes .	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Section B-B' in between N 25 to N140 & E50 to E70	Mining operations are carried out within proposed area	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposals for maintaining OB and Mineral benches separately, interstitial waste (IW) is there within in mineral bench which needs to be separated manually	No Intercalated waste generated during the year	

2c	Stripping ratio or ore to OB ratio	1 : 0.12	1 : 0
2e	Quantity of overburden generation in m3	No OB only intercalated waste of 444 cum & 403 cum was proposed to be generated during the years 2018-19 & 2019-20 respectively	No intercalated waste reported
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The region of this area is formed by the sedimentary deposit, which belongs to Vempalli formation of Papaghni Group in Kadapa Basin. The Vempalli formation mainly consists of Dolomite & Limestone. The sedimentary deposit of this area shows E-W strike direction and dipping towards south with various dip amounts of 12° to 20° and proposals are furnished in the document under consideration for development to maintain bench height of 3 meters.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	LIMESTONE 2018-19 : 9995 MT 2019-20 : 9059 MT	LIMESTONE 2018-19 : 6370 MT 2019-20 : 2410 MT	
3c	Recovery of sailable/usable mineral from ROM production	90%	100%	

3d	Quantity of mineral reject generation	Nil	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mannual	Mannual
3j	Provision of drilling and blasting in mineral benches	Drilling is being carried out by Jack hammer Drill of 33mm dia and Blasting is by using Slurry explosive with ANFO in the ratio of 1 : 5 with muffle blasting.	Drilling and Blasting is being practised as per approved proposals.
3k	Provision of mining machineries in mineral benches	Jack Hammer Drill(33 mm Dia) with Compressor : 2 Nos. and Tractor with Trailer (3 Tonnes)- 1 No.s	Jack Hammer Drill (33 mm Dia) with Compressor : 1 Nos. and Tractor with Trailer (3 Tonnes)- 1 No. are being utilised for mining and allied activities
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3.0 meters bench height is suitable for this type of deposit	3.0 meters bench is suitable and the same is achieved by developing two 1.5 meter height benches initially and merged both benches lateron to form 3.0 meters bench finally.
3m	Total area covered under excavation/pits	2.182 Ha	2.182 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.12	1 : 0

3o	Total area put in use under different heads at the end of year	Area under Excavation : 1.8811 Ha, OB Dump : 0.529 HA, Infrastructure : 0.38, ROad : 0.2 Ha , Green Belt : 0.3362 Ha, Total 2.9843 Ha	Area under Excavation : 1.815 Ha, Storage of Mineral : 0.066 HA, OB Dump : 0.117 Ha, Infrastructure : 0.003 Ha, Road : 0.106 Ha , Others (Exploration) : 0.3362 Ha, Total 2.116 Ha
3p	Production of ROM mineral during the last five year period as applicable	2014-15 : No proposals. 2015-16 : 8820 tonnes. 2016-17 : 9234 tonnes. 2017-18 : 9995 tonnes, 2019-20 : 9059 tonne	2014-15 : 4184 tonnes. 2015-16 : 1425 tonnes. 2016-17 : 3575 tonnes. 2017-2018 : 6370 tonnes, 2019-20 : 2410 tonnes
3q	General remarks of inspecting officers on method of mining etc.	Manual method of mining is proposed using Jack hammer drill and Tractor with trailer.	Mining operations are being carried out manually and as per approved proposals.

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 if any be utilised for plantation. There is no OB/ Mineral reject anticipated in the lease and waste generated is in the form of interstitial Clay (IW) and is being stacked on NW side of the lease area.	No generation of IW/Top Soil	

4b	Location of topsoil, OB and mineral reject dumps	Intercalated Waste (IW) is proposed to store on NW side of lease area	No Top soil/ IW generated during the year. However 16 dumps are observed on North, North-Western side of lease area
4c	Number of dumps within lease area and outside of lease area	Sixteen dumps within lease area .	Sixteen dumps within lease areae
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	North-Western side of lease area and outside the UPL	North-Western side of lease area and outside the UPL
4e	Number of active and alive dumps.	Four dumps	Four dumps
4f	Number of dead dumps.	Twelve	Twelve inactive dumps of small size are observed
4g	Number of dumps established.	no proposal	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management		13 small and 3 large dumps are there in the lease with height of about 2.5 to 4 meters. These dumps are dumped temporarily and will be utilised for backfilling in the mined out portion of pit

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 is matured for backfilling so for	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	

5e General remarks of inspecting officers on backfilling and reclamation etc. No area is matured for backfilling so far.

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).	To be submitted yearly	Submitted	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.0672 Ha	0.05 Ha	
6d	No. of saplings planted during the year	100	125	
6e	Cumulative no .of plants	No proposal	250 plants	
6f	Any other method of rehabilitation	No proposal	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			So far 250 sapplings were planted to improve the aesthetic beauty

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM is subject to Manual sorting and grading before dispatch	Manual sorting and grading is being carried out.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual method to be adopted.	Manual method adopted	

7c	Different grade of mineral sorted out at mines.	As per the market requirement	As per market requirement
7d	Any beneficiation process at mines	No proposal	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Manual sorting and Grading is being done in the lease area before dispatch to remove the intercalated waste from ore

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes Topo soil cover in the mining lease area incidental to mining shall be removed separately and to be utilised for plantation all along the buffer zone.	No Topo soil generated during the year	
8b	Concurrent use or storage of topsoil	Topo soil cover incidental to mining shall be used concurrently for plantation all along the buffer zone.	No top soil generated	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Intercalated waste generated during mining to be stored on North western side of lease	No waste generated during the year	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100 sapplings to be planted	60 sapplings were survived out of 125 sapplings
8g	Survival rate	No proposal	60%
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Lessee planted 250 sapplings to improve the aesthetic beauty

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Lessee has to submit Monyhly and Annual return regularly as per Statuate.	Lessee submitting Monyhly and Annual return regularly.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Opencast working : 1.5 Ha	Area under Excavation : 1.815 Ha, Storage of Mineral : 0.066 HA, OB Dump : 0.117 Ha, Infrastructure : 0.003 Ha, Road : 0.106 Ha , Others (Exploration) : 0.3362 Ha, Total 2.116 Ha	
9d	Scrutiny of Annual return on afforestation	50 sapplings within M.L. area and 75 sapplings out side Mining Lease area.	50 sapplings within M.L. area and 75 sapplings out side Mining Lease area.	
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	Graded ore stacked is 9124 MT	Graded ore stacked is 9124 MT
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price : Rs. 300/ Tonne and Cost of production : Rs. 265/ Tonne	Ex mine price : Rs. 300/ Tonne and Cost of production : Rs. 265/ Tonne
9k	Scrutiny of Annual return on mining machineries	Tractor- 1	Tractor- 1

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