

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

MCDR INSPECTION REPORT

Hyderabad regional office

Mine file No : AP/KNL/LST-193/HYD

Mine code : 38APR11175

- (i) Name of the Inspecting : **PR09**) **M.Pratap.Reddy**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : R.RAJASEKHAR REDDY PARTNER
Official with
Designation
- (iv) Date of Inspection : 19/08/2016
- (v) Prev.inspection date : 14/02/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PALKUR(2.647 HA)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : ANDHRA PRADESH
District : KURNOOL
Village : PALKUR
Taluka : KURNOOL
Post office : PALKUR
Pin Code : 518176
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 15/04/2013
- (h) Weekly day of rest : SUN
2. Address for :
correspondance
3. (a) Lease Number : APR3312
- (b) Lease area : 2.65
- (c) Period of lease : 20
- (d) Date of Expiry : 05/03/2033
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : LAKSHMI TIRUMALA MINERALS
SRI N.L.MADHUSUHANA MURTHY
9-19-4/31, GANDHINAGAR
DHONE-581222 KURNOOL ANDHRA
PRADESH
Phone:
FAX :

Owner : LAKSHMI TIRUMALA MINERALS
9-19-4/31, GANDHINAGAR,
DHONE, KURNOOL DIST.
KURNOOL ANDHRA PRADESH
Phone:
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960 16/01/2012
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2 Core drilling boreholes to a depth of 10 mts each and three trial pits with a size of 3X 3X 5 to 8 mts during 1st year IS proposed. after the lease is granted,	No exploration has been done.	violation of Rule 13(1) is pointed out.
1b	Exploration over lease area for geological axis 1 or 2	25% of the lease area of G3 scale is proposed for conversion of G2 scale	60% of the area is G1 scale 15% of the area is of G2 scale	Violation of Rule 13(1) has been pointed out.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No expenditure is furnished.	-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	25% of the lease area	No exploration is done.	
1e	Balance reserve as on 01/04/20	36,799 T	55,942 T	The targetted production has not been achieved due to market constraints.
1f	General remarks of inspecting officers on geology, exploration etc	The remaining 25% of the G3 scale of ML area was intended to convert into G2 scale exploration.	The proposed exploration as said is not carried out.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Between grid lines N-50 - N150 &E80-140	Lateral extension was done upto the earmarked area but depth wise development has not been done which is due to less production.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	0.5m top bench followed by 1.5m Limestone is proposed	As proposed separate bench in soil and Limestone has been developed.	
2c	Stripping ratio or ore to OB ratio	A thin mantle of soil which constitute as overburden amounts to be negligisable ore to overburden ratio.	The ore to overburden ratio is 1:0.13	
2d	Quantity of topsoil generation in m3	1062 cum	100 cum	due less demand of Limestone, the anticipated development could not take place.
2e	Quantity of overburden generation in m3	There is no seperate overburden except soil	The soil cover of about 100 cum has been generated.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	It was proposed to develop the mine by forming 0.5 soil bench followed by @ 1.5 bench height limestone benches at depth.	The lessee could only develop 0.5m bench of soil and 1.5 bench of Limestone	The mine could not be developed to the full extent due to less demand of Limestone.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One.	
3b	Quantity of ROM mineral production proposed	9886T	850 T	

3c	Recovery of sailable/usable mineral from ROM production	95%	90-95%	
3d	Quantity of mineral reject generation	Nil	-	
3e	Grade of mineral rejects generation and threshold value declared.	None, since no mineral rejection.	-	
3f	Quantity of sub grade mineral generation.	No subgrade proposals.	-	
3g	Grade of sub grade mineral generation	Does not arise.	-	
3h	Manual / Mechanised method adopted for segregating from ROM	No sagregation proposals.	-	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Does not arise.		
3j	Provision of drilling and blasting in mineral benches	There is no proposals of drilling and blasting in mineral benches.	-	
3k	Provision of mining machineries in mineral benches	No provision of mining machinary in mineral benches is made.	-	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable benches in Overburden and in Limestone is proposed.	As proposed the benches have been developed.	
3m	Total area covered under excavation/pits	0.6 ha	0.21 ha	Excavation is less due less demand of limestone.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.12	1:0.12	

3o	Total area put in use under different heads at the end of year	0.61 ha	0.21 ha	
3p	Production of ROM mineral during the last five year period as applicable	2013-14=9195 T, 2014-15=9886 T, 2015-16=9886 T	2013-14=4,588 T,, 2014-15=4,386 T, 2015-16=850 T	The mining operations in mine were commenced in the year 2013-14 only.
3q	General remarks of inspecting officers on method of mining etc.	Opencast manual method of mining is proposed.	Manual method of mining is practiced.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	0.5m Soil cover has been designated as overburden which has been meant for concurrent productive usage for afforestation.	As proposed the soil is used for afforestation.	
4b	Location of topsoil, OB and mineral reject dumps	Soil is spread in 7.5m buffer zone.	As proposed the soil is spread over 7.5 buffer zone for the afforesation.	
4c	Number of dumps within lease area and outside of lease area	Nil	-	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No dump proposals	-	
4e	Number of active and alive dumps.	Nil	-	
4f	Number of dead dumps.	Nil	-	
4g	Number of dumps established.	Nil	-	
4h	Whether Retaining wall or garland drain all along dumps are there.	No	-	

4i Length of
Retaining wall
or garland drain
all along dumps

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.	There is no proposal of full extracted mined out area for back	-	
5b	Area under backfilling of mined out area	There is no proposal of backfilling of mined out area.	-	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There is no proposal of concurrent restoration of minedout area by top soil.	-	
5d	Total area fully reclaimed and rehabilitated	Nil	-	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	There is noproposal of backfilling and reclamation of minedout area.	-	The ML area is yet to mature for backfilling and restoration.

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).	Annual report proposals on PMCP have been given in PMCP.	Lessee has not submitted the annual report on PMCP	Violation of Rule 23E(2) of MCDR 1988 has been pointed out.
6b	Area available for rehabilitation (ha) .	No proposals on area availability for rehabilitation	-	

6c	afforestation done (ha).	Proposals of afforestation in the 7.5m buffer zone has been given.	No afforestation is done.	Rule 13(1) has been pointed out.
6d	No. of saplings planted during the year	22 saplings for year was proposed.	No sapling is done.	
6e	Cumulative no .of plants	66 saplings	10 saplings exists.	
6f	Any other method of rehabilitation	No rehabilitation proposals	-	
6g	Cost incurred on watch and care during the year	Rs 1200/-	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	There is no proposal of reclamation and rehabilitation by backfilling.	-	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposals have been given	-	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	no such proposals have been given.	-	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposals have been given	-	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposals have been given	-	

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposals have been given	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposals have been given	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposals have been given	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	No such proposals have been given	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No reclamation and rehabilitation proposals have been given except protective measures.	Protective measures have not been implimented.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposed distach of the mineral is 9886T. No grade wise sorting has been given.	850 T have been dispatched. No grade wise sorting is done.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise sorting proposals have been given	-	
7c	Different grade of mineral sorted out at mines.	No sorting of mineral is proposed.	-	

7d	Any beneficiation process at mines	There is no beneficiation proposals	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	There is no beneficiation proposals and Mineral conservation proposals	Except handling losses there is no other losses.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	The top soil is concurrently proposed for afforestation in 7.5m buffer zone.	Not much top soil is generated as the mine is not fully developed to the extent it was proposed.	
8b	Concurrent use or storage of topsoil	The top soil was concurrently and productively proposed for afforestation along the 7.5m buffer zone.	As proposed the removed top soil is spread over 7.5m buffer zone for affrestation purpose.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There is no proposal of overburden, mineral reject dump.	-	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	There is no proposals of generation of waste, mineral reject and back filling the same in the mined out area.	-	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	There are no proposals of reclamation and rehabilitation proposals	-
8g	Survival rate	100 % survival rate	10% survival due to lack of watch and ward.
8h	Water sprinkling on roads to control airborne dust	Sprinkling of road is proposed.	Sprinkling of water on haul road is done.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Afforestation in 7.5m buffer zone is proposed to add aesthetic beauty in and around the mine area	Due to less survival of saplings, the aesthetic beauty is not felt.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	The Monthly/Annual returns are being timely submitted.	submitted
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	The mine is presently under discontinuance and no Mining Engineer/Geologist have been employed.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	The land use pattern has been furnished. The degraded land is about 0.21 ha	
9d	Scrutiny of Annual return on afforestation	Yes	Afforestation as envisaged is not found due to lack of watch and ward.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No proposals of Mineral rejection.	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes,	No stock exists at mine.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex mine price furnished to be Rs.200/-
9k	Scrutiny of Annual return on mining machineries	No information is furnished	It is a manual mine.

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
Rule 13(1)	07/10/2016				
Rule 23E(2)	07/10/2016				
Rule 24	07/10/2016				
Rule 53	07/10/2016				

Date :

(M.Pratap.Reddy)

Indian Bureau of Mines