

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

**MCDR INSPECTION REPORT
Hyderabad regional office**

Mine file No : AP/KNL/LST-164/HYD

Mine code : 38APR11143

- (i) Name of the Inspecting : **PR09**) **M.Pratap.Reddy**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : N.SIVA RAMI REDDY LESSEE
Official with
Designation
- (iv) Date of Inspection : 20/08/2016
- (v) Prev.inspection date : 12/03/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAMAPURAM(SY.NO.448/B,12.**
(b) **Registration NO.** :
(c) **Category** : B Manual
(d) **Type of Working** : Opencast
(e) **Postal address**
State : ANDHRA PRADESH
District : KURNOOL
Village :
Taluka :
Post office :
Pin Code :
FAX No. :
E-mail :
Phone :
(f) **Police Station** : OWK
(g) **First opening date** : 04/09/2006
(h) **Weekly day of rest** : SUN
2. **Address for** : H.NO:4-70
correspondance POST&MANDAL:KOLIMIGUNDLA
DIST: KURNOOL.
3. (a) **Lease Number** :
(b) **Lease area** :
(c) **Period of lease** :
(d) **Date of Expiry** :
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : N.SIVA RAMI REDDY
H.NO:4-70
POST&MANDAL:KOLIMIGUNDLA
DIST:KURNOOL. KURNOOL
ANDHRA PRADESH
Phone:
FAX :

Owner : N.SIVARAMIREDDY
KOLIMIGUNDLA, (V)&(MANDALAM)
KURNOOL DIST ,ANDHRAPRADESH
KURNOOL ANDHRA PRADESH
Phone:
FAX :

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	13/05/2013
Plan/Scheme of Mining	:	MP modif under MCR 1960	05/03/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	It was proposed to drill sixteen boreholes during 2015-16	The lessee has carried out the exploration by core (8 boreholes) and DTH (8 drill holes) drilling.	
1b	Exploration over lease area for geological axis 1 or 2	It is G2 scale of exploration	As proposed, G2 scale of exploration has been carried in the lease area.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not furnished	The exploration was carried out by the lessee under the supervision of the M.P. Saravanan Geologist during the year 2015-16. The expenditure incurred as reported is Rs.6,83,544/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not furnished	Nil	
1e	Balance reserve as on 01/04/20	3,84,038T	8,11,606 T	The reserve has been enhanced by the envisaged exploration by means of 16 boreholes
1f	General remarks of inspecting officers on geology, exploration etc	To escalate and improve the reserve confidence limits, 16 16 boreholes have been proposed,	It is bedded deposit. To increase the confidence levels of the reserve further exploration is required besides the exploration already carried out.	It is simple bedded deposit.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	The development and production was proposed between section lines X-X',Y-Y' and Z-Z' in the central eastern part of the ML area.	The development and production has been carried out beyond the above said Sectional lines and it is more towards east.	There is a deviation in development and production and it has been pointed out to the lessee in the form of violation cum show cause notice under rule 13(1) of MCDR 1988 during the site inspection and scrutiny of the Scheme of mining which took place on 26.7.2016.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There exists no top soil and overburden and hence there is no proposal of seperate benches.	Does not arise.	
2c	Stripping ratio or ore to OB ratio	There is no overburden/int erburden and hence no proposals.	Does not arise.	
2d	Quantity of topsoil generation in m3	There exists no top soil and hence no generation of top soil.	Does not arise.	
2e	Quantity of overburden generation in m3	There exists no overburden and hence no generation of overburden.	Does not arise.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development and production was proposed between section lines X-X', Y-Y' and Z-Z'	Development and production was done beyond the section lines.	While examining the modified mining plan, the deviation in development and production was already been pointedout under Rule 13(1) of MCDR'1988.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	Single pit	Single pit	
3b	Quantity of ROM mineral production proposed	During the year 2015-16, it is proposed to produce 20,226 T of ROM.	During the year 2015-16, 3,65,000 T of ROM is produced.	During the scrutiny of modified draft mining plan by the Inspecting/scrutiny officer, the deviation has been observed and violation of Rule 13(1) of MCDR'1988 was pointed out on account of excess production.
3c	Recovery of sailable/usable mineral from ROM production	Cent percent recovery	Cenet percent recovery.	
3d	Quantity of mineral reject generation	No mineral reject proposed.	Not applicable.	
3e	Grade of mineral rejects generation and threshold value declared.	There is no generation of mineral rejection. The threshold value declared is 35% Cao.	There is no generation of mineral rejection. The deposit grade is above threshold limit.	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	No sub grade mineral	No subgrade exists.	
3h	Manual / Mechanised method adopted for segregating from ROM	No segrgation of ROM	Entire RCOM is consumed. There is no segregation.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No study is proposed.	Not applicable.	
3j	Provision of drilling and blasting in mineral benches	Provision for drilling by DTH drill rig and Compressor is made.	Drilliing and blasting is done with aid of DTH rig and Compressor.	

3k	Provision of mining machineries in mineral benches	Provision of Excavator, Tippers etc have been made.	Mineral benches have been formed with the aid of Excavator and Tippers.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable mineral benches have been proposed. There are no overburden benches.	The benches have been made as proposed in the Scheme of mining.	
3m	Total area covered under excavation/pits	0.936 ha	4.085 ha	Excavation in excess is due to excess production
3n	Ore to OB ratio for the pit/mine during the year.	-	Nil	
3o	Total area put in use under different heads at the end of year	3.081 ha	8.438 ha	
3p	Production of ROM mineral during the last five year period as applicable	2011-12=-, 2012-13=-, 2013-14=55,819, 2014-15=20,226, 2015-16=1,19,735 T	2011-12=1400-, 2012-13=1,60,670, 2013-14=49,350, 2014-15=1,03,300, 2015-16=3,65,000 T	
3q	General remarks of inspecting officers on method of mining etc.	Opencast semi mechanised method of Mining	Semi mechanised method of Mining is practiced.	There is a deviation of degradation and production for which Rule 13(1) is already pointed out.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposals since there is no top soil, OB and mineral reject.	-	
4b	Location of topsoil, OB and mineral reject dumps	No proposals	-	

4c	Number of dumps within lease area and outside of lease area	Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	
4e	Number of active and alive dumps.	Nil	Nil	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	No dump exists	
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	-	
4i	Length of Retaining wall or garland drain all along dumps	Nil	-	
4j	Number of settling ponds	Nil	-	
4k	Specific comments of inspecting officer on waste dump management	There are no waste dump proposals	No waste dump exists	There is no overburden/side burden. entire ROM is marketed.

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 are no proposals of backfiling of mined out area.	Mineral is continuing at depth.	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No topsoil proposals since there is no top soil exists.		

5d	Total area fully reclaimed and rehabilitated	Nil	-	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposals of backfilling and reclamation	-	The mineral is yet to exhaust and it is continuing at depth. Therefore is no backfilling and reclamation proposals.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Except afforestation over an extent of 0.037 ha, there are no other proposals for the year 2015-16	Afforestation has been done but the lessee has not submitted the Annual report of PMCP for the year 2015-16	Violation of Rule 23E(2) has been pointed out.
6b	Area available for rehabilitation (ha) .	Nil	-	
6c	afforestation done (ha).	0.037 ha	0.037 ha	
6d	No. of saplings planted during the year	100 saplings.	100 saplings but the survival is only about 50%	
6e	Cumulative no .of plants	200 saplings	about 105 saplings	The survival rate is about 50%
6f	Any other method of rehabilitation	Nil	-	
6g	Cost incurred on watch and care during the year	Nil	About Rs. 10,000/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Nil	-	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	Nil	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	-
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	-
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	0.037 ha	0.037 ha
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	-
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Nil	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	No monitoring proposals envisaged.	-

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	There are no concrete proposals with regards PMCP	Since the mineral is yet to exhaust and therefore there is no reclamtion and rehabilitation proposals.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The entire ROM is proposed for disptach.	The entire ROM as such is sold/ dispatched.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	No proposals.	There is no segregation process.	
7d	Any beneficiation process at mines .	No beneficiation proposals	No beneficiation is practiced except physical sizing of ROM by Crusher.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The entire ROM is meant for sale after sizing of the mineral.	the entire ROM is sold after sizing.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil proposals	There exists no top soil.	
8b	Concurrent use or storage of topsoil	No proposal	There is no top soil and storage of top soil does not arise.	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposals	There is no generation of overburden, waste rock, reject and fines etc	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals	does not arise.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals	Does not arise.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The area is rocky terrain, phased afforestation is proposed	As proposed Afforestation is carried out.	
8g	Survival rate	100%	50%	survival rate is less due to lack of watch and ward.
8h	Water sprinkling on roads to control airborne dust	The haul road will be periodically sprayed with water	As proposed the haul roads periodically sprinkled with water.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	To add aesthetic beauty, complimentary afforestation is proposed in the 7.5m buffer zone.	As proposed complimentary afforestation is taken up by the lessee.	The ML area is a rocky terrain, the complimentary afforestation adds aesthetic beauty to the ML area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes,	The monthly and annual returns are submitted online.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Provision for the employment of Mining Engineer, Geologist, & Mines Manager is made.	Except mines manager, no Mining Engineer and Geologist is employed.	Violation of Rule 42(1)(c) has been pointed out to the lessee.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Breakup of land use pattern has been furnished.	
9d	Scrutiny of Annual return on afforestation	yes	40% survival rate is furnished.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	There is no generation of mineral rejects	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	ROM stock is about 19,990 T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes,	The sale price furnished to be Rs.210/-	
9h	Scrutiny of Annual return on fixed assets	Yes	Fixed assets worth Rs.1,00,000/- has been furnished.	
9k	Scrutiny of Annual return on mining machineries	Yes	Hired machinery like excavator, tippers, compressor etc.	

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 42(1)(C)(II)	26/10/2016				
Rule 23E(2)	26/10/2016				

Date :
(M.Pratap.Reddy)

Indian Bureau of Mines