

**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 : 160) kalmata.M.K
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : I.Chandra Shekar, Lessee's son.
Official with
Designation
- (iv) Date of Inspection : 19-MAY-23
- (v) Prev.inspection date : 10-MAR-21

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-APR-76
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : I SREERAMULU
PATHAPETA
DHONE, KURNOOL DISTRICT.
3. (a) **Lease Number** : APR1287
- (b) **Lease area** : 16.25
- (c) **Period of lease** : 10
- (d) **Date of Expiry** : 05-AUG-99
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-AUG-04
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	20-JAN-98
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	09-MAY-08
		Mining Scheme rule 12 MCDR1988	29-SEP-15
		MP review under 17(1) MCR 2016	08-JUL-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	None in the present plan period.	None.	
1b	Exploration over lease area for geological axis 1 or 2	None in the present plan period.	None.	Three boreholes were drilled in the lease area and most of the area is covered under working pits. So, no exploration was proposed in the present plan period.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None.	None.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	None.	None.	No exploration was proposed in the present plan period.
1e	Balance reserve as on 01/04/20	Reserves/resources as per the approved document dated 09.07.2020, (as on 24.12.2019, In tonnes) Proved Mineral Reserves (111) - 503529 Pre-feasibility M Resources (221) - 103650 Total:-	Reserves/resources as on 01.04.2023 (in tonnes) Proved M Reserves (111) - 4,94,949 Pre-feasibility M resources (221) - 1,03,650 Total:- 5,98,599	Reserves/resources are updated by depleting 8580 tonnes of production carried out from 01.01.2020 to 31.03.2023.
		607179		

1f	General remarks of inspecting officers on geology, exploration etc	The formation belongs to the Vempalli formation of Papaphni group in kadapa basin. Strike of the formation is E-W and dip varies from 12 to 20 degree towards South. Total three boreholes were drilled in the entire lease area and most of the lease area is coverd by working pits. so, no exploration was proposed in the present plan period.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In the year 2022-23, there was a proposal to work between the co-ordinates,N1700890 to N1700920 and E 817780 to E817803, N1700828 to N 1700850 and E 817811 to E 817835.	Actual woking has been carried out between the co-ordinates N1700930 to N1700970 and E 817800 to E 817850.	In the Northern and Southern part of the lease area it appears working may extended beyond the 7.5 mtr safety zone. Since lessee has not carried out DGPS survey and not updated plans and sections required under Rule 31(4) of MCDR 2017, exact deviation was not assessed during inspection. However, violation is point out under Rule 11(1) for deviation in workings and 31(4) of MCDR 2017, for not updating plan and sections.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	In the present plan period benches were proposed in ore only.	Benches were made in ore only.	

2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.01	Due lack of demand production is achieved only 20% in the year 2022-023 and working has been not carried out as per the proposal, so stripping ratio is less only.
2d	Quantity of topsoil generation in m3	141Cum in the year 2022-23.	approximately 10 cum	Entire quantity was utilized for plantation work. Due to lack of demand, production is achieved only 20%, and working has been not carried out as per the proposal, so generation of topsoil is only 10 tonnes.
2e	Quantity of overburden generation in m3	223 cum in the year 2022-23.	only 20 cum waste was generated in the year 2022-23.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The mine is working manually and bench height is not maintained as per the proposals. the existing bench height is approximately 4.00 to 7.00 mtrs. Since lessee has not updated plans and sections, exact bench positions and dimension is not assessed exactly.	Violation is pointed out under Rule 11(1) of MCDR 2017 for deviation in proposed workings.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One.	One.	Dimension of the pit is approximately 165m(L) x 120m(w) x 30m(h)

3b	Quantity of ROM mineral production proposed	9613 tonnes of Limestone in the year 2022-23.	1700 tonnes in the year 2022-23.	Limestone production is achieved only 17.68% in the year 2022-23. The mine is not working from september 2022 onwards due to lack of demand.
3c	Recovery of saleable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	None.	None.	
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed Generation of Mineral reject in the present plan period. Threshold value declared is Minimum 34% Cao and Mgo max 5%.	No mineral reject generated in the year 2022-23.	
3f	Quantity of sub grade mineral generation.	None.	None.	
3g	Grade of sub grade mineral generation	None.	None.	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual.	Manual.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None.	None.	
3j	Provision of drilling and blasting in mineral benches	Yes proposed.	No drilling and blasting is carried out in the year 2022-23.	Production is carried out manually by engaging manpower.
3k	Provision of mining machineries in mineral benches	None.	None.	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench height is 1.5 mtr.	The mine is not working properly and proposed bench height is not maintained.	Violation is pointed out for the same under Rule 11(1) of MCDR 2017.
3m	Total area covered under excavation/pits	2.182Ha in the present plan period.	Approximately 2.00 Ha is covered under pits.	Lessee has not conducted survey and updated plan and sections, so exact area covered under pits is not assessed.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	1:0.01	The working is not carried out properly and production is achieved only 17.68% in the year 2022-23.
3o	Total area put in use under different heads at the end of year	Area under mining- 2.182Ha, Storage- 0.066Ha, Roads-0.106Ha, waste disposal- 0.117Ha	Area under Mining- 2.00Ha, Mineral storage- 0.28Ha, Roads-0.106Ha	
3p	Production of ROM mineral during the last five year period as applicable	Limestone 2022-23 9613 tonnes 2021-22 9970 tonnes 2020-21 8955 tonnes 2019-20 9059 tonnes 2018-19 9995 tonnes		
3q	General remarks of inspecting officers on method of mining etc.		The working is not carried out as per the proposal, benches were not maintained systematically and in the Southern portion of the lease area it appears working has been extended beyond 7.5mtr safety zone also.	Violation is pointed out for the same under Rule 11(1) of MCDR 2017.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No dumping was proposed in the present plan period.	None.	
4b	Location of topsoil, OB and mineral reject dumps	None.	None.	The topsoil generated was utilized for plantation work and waste generated was utilized for making bund on the pit edge.
4c	Number of dumps within lease area and outside of lease area	None.	5 to 6 scattered mineral dumps of 0.5 to 1.0 mtr height were observed in the Nothr-Eastern and Eastern part of the lease area.	Lessee has advised to dump the mineral properly.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None.	Temporary mineral stocks were found within the UPL.	
4e	Number of active and alive dumps.	None.	5.00 to 6.00 small mineral stocks were observed within the lease area.	
4f	Number of dead dumps.	None.	None.	
4g	Number of dumps established.	None.	None.	
4h	Whether Retaining wall or garland drain all along dumps are there.	None.	None.	
4i	Length of Retaining wall or garland drain all along dumps	Not applicable.	Not applicable.	
4j	Number of settling ponds	None.	None.	

4k	Specific comments of inspecting officer on waste dump management	No waste dumping was made in the present plan period. In the approved document proposal was given to backfill the mined out area. However, due to lack of demand working has been not carried out as per the proposal, so generation of waste was very less. The waste generated in the year 2022-23 was utilized for making bund on the top of the pit.
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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.	Proposed backfilling in the 7.5 mtrs worked out area.	No back filling is carried out in the year 2022-23.	However, previously backfilling is carried out in the 7.5 mtr safety zone between B.P No-5 and 6.
5b	Area under backfilling of mined out area	0.075Ha in the plan period 2020-21 to 2024-25.	No back filling is carried out in the year 2022-23.	about 0.0375Ha was previously backfilled.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None.	None.	Earlier, backfilling was carried out by using waste rock generated from top benches.
5d	Total area fully reclaimed and rehabilitated	0.075Ha in the present plan period.	None in the year 2022-23.	0.0375Ha is backfilled earlier.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mineral is not exhausted in the lease area. However, in the present plan period backfilling was proposed in the 7.5 mtr safety zone to restore the safety barrier. Accordingly about 0.375Ha was back filled earlier.	

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Before 1st July of every year.	Submitted PMCP report for the year 2022-23.	
6b	Area available for rehabilitation (ha) .	None.	None.	
6c	afforestation done (ha).	0.01 Ha in the year 2022-23.	0.06Ha in the year 2022-23.	
6d	No. of saplings planted during the year	20 saplings in the year 2022-23.	100 saplings in the year 2022-23.	However, it was observed that survival rate is very less and advised lessee to take care of plantation by proper monitoring.
6e	Cumulative no .of plants	100 in the plan period.	300 saplings planted up to 2022-23.	However it was observed that survival rate is very less. The mine is not working properly and lessee has not takne care of plantation. Advised lessee to taking care of the plantation by engaging man power.
6f	Any other method of rehabilitation	None.	None.	
6g	Cost incurred on watch and care during the year	None.	None.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Proposed back filling in the 7.5 mtr safety zone, 104m (l) x 7.5m(w) x 6m(h) .	No backfilling was made in the year 2022-23.	Earlier backfilling is carried out in the 7.5 mtr safety zone, exact are back filled is not asseded due to bushes.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Proposed back filling waste rock generated in the plan period.	Approximately about 50 cum waste rock was generated in the plan period up to 2022-23, out of which about 20 cum is utilized for making bund and remaining is utilized for backfilling in the 7.5 mtr safety zone.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	None.	None.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None.	None.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	None.	None.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	None.	None.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	None.	None.

6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed monitoring of Quality of air by periodic monitoring.	Not carried out for the period 2022-23.	The mine is working manually and production is also very less and impact of mining on environment is negligible. Further, the mine is not working from september 2023 onwards and advised lessee to do the environmental monitoring once resumed mining operations.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		The plantation was made as per the proposal but survival rate is very less. Advised lessee to take care of plantation by engaging manpower for regular monitoring. The mine is not working properly due to lack of demand, lessee has not carried out environmental monitoring during the year 2022-23, due to non working of mines. The mine is working manually and impact of mining on environment is negligible.	However, lessee is advised to carry out environmental monitoring on resumption of mining operation.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch in the form of Lumps.	Lessee is dispatching mineral by doing only size reduction manually.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual.	Manual.	
7c	Different grade of mineral sorted out at mines.	Cement grade	Cement grade.	

7d	Any beneficiation process at mines	None.	None.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		The lessee is using entire ROM by blending as per the requirement of the buyer. Lessee is doing only size reduction manually.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes proposed.	Topsoil is removed separately and utilized for plantaion within the lease area.	
8b	Concurrent use or storage of topsoil	Concurrent use.	Concurrent use.	The topsoil removed was utilized for plantation work within the lease area.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	None.	None.	The waste rock generated in the present plan period was utilized for backfilling in the 7.5 mtr safety zone.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes proposed.	The waste rock generated in the plan period is utilized for restoration of 7.5 mtr safety zone.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed restoration of 7.5 mtrs safety zone.	Started restoration of 7.5 mtr safety zone between B.P no-5 and 6.	The mine is not working properly and proposed restoration is not completed.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Lessee has planted 300 saplings in the lease area. The survival rate is very less.	
8g	Survival rate	None.	Survival rate to 35 to 40% only.	Advised lessee to take care of the plantation by proper monitoring by engaging man power.
8h	Water sprinkling on roads to control airborne dust		The mine is not working properly and method of mining is manual. So no dust is generating during mining. So, when ever it is necessary lessee is doing water sprinkling by engaging water tanker.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Most of the lease area is degraded by mining activity. Benches are not maintained systematically. Plantation is made in 7.5 mtr safety zone but survival rate is very less. The mine is not working due to lack of demand. Advised lessee to rectify the bench parameter after resumption of mining operations.	

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	A monthly returns shall be submitted before 10 th day of every month in respect of preceding month and an annual returns shall be submitted before 1st day of july of each year for the preceding financial year.	Lessee has not submitted monthly and annual returns within time limit.	Showcause notice is issued for non submission of annual returns within the time limit.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	In the Annual returns submitted for the year 2021-22, details of mining engineer and geologist is mentioned as Nil.	The mine is not working from September 2022, onwards, so lessee has not appointed any mining engineer and geologist.	Advised lessee to appoint Mining Engineer and Geologist after resumption of Mining Operations.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	In the Annual returns submitted for the year 2021-22, the land use details furnished are as follows, Area already exploited and abandoned by mining- 3.280Ha, Covered under current workings- 3.00Ha, Used for waste disposal- 0.280Ha.	Area under Mining- 2.00Ha, Mineral storage- 0.28Ha, Roads-0.106Ha	The land use pattern mentioned in the AR submitted for the year 2021-22 is incorrect and showcause notice is issued for the same under Rule 45(7) of MCDR- 2017.
9d	Scrutiny of Annual return on afforestation	100 saplings in the year 2021-22.	The information furnished is found correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None.	None.	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM- Opening stock and closing stock -nil and production- 4030 tonnes. Gradewise- B.F Grade- Opening stock-10804T, Production- 2060T, Dispatch-1000T and closing stock-11864T	The details given appears found correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value and exmine price is mentioned as Rs-500/T and cost of production is mentioned as Rs 290/T	The data furnished appears found correct.	
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset mentioned as Nil.	The lease area is a patta land belongs to lessee only, but value is shown as nil.	Lessee has advised to correct the same.
9k	Scrutiny of Annual return on mining machineries	None.	None.	

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
MCDR17	Rule 11(1)	09-AUG-23			
MCDR17	Rule 27(2)	09-AUG-23			

Date :

(kalmata.M.K)

Indian Bureau of Mines