

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

**FMCP Inspection REPORT**

**Hyderabad regional office**

**Mine file No :** AP/KNL/LST-161/HYD

**Mine code :** 38APR11103

- (i) Name of the Inspecting : **M001** ) **S K MUDULI**  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri I.Sreeramulu, Mine Owner.  
Official with  
Designation
- (iv) Date of Inspection : 28/02/2020
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **EMBOY**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : **ANDHRA PRADESH**  
District : **KURNOOL**  
Village : **VELDURTHI**  
Taluka : **EMBOYEE**  
Post office :  
Pin Code :  
FAX No. :  
E-mail :  
Phone :
- (f) Police Station : **DHONE**
- (g) First opening date : **01/01/1993**
- (h) Weekly day of rest : **SUN**
2. Address for : **H.NO:9-19/A,KOTHPET,**  
correspondance **POST:DHONE,**  
**DIST:KURNOOL. PIN:518222**
3. (a) Lease Number : **APR1480**
- (b) Lease area : **16.25**
- (c) Period of lease : **10**
- (d) Date of Expiry : **18/08/2002**
4. Mineral worked : **LIMESTONE** Main

## 5. Name and Address of the

Lessee : I.SRIRAMULU  
 H.NO:9/19/A,KOTHAPET,  
 POST:DHONE DIST:KURNOOL.  
 PIN:518222 KURNOOL ANDHRA  
 PRADESH  
 Phone:  
 FAX :

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

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	16/03/2001
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	03/04/2013
		MP review under 17(1) MCR 2016	05/06/2017
		MP modif under 17(3) MCR 2016	27/02/2019

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such approved exploration proposal for 2018-19 and 2019-20.	7 nos of Core bore hole completed during 2018-19 covering 4.68 Ha area.No exploration carried during 2019-20.	
1b	Exploration over lease area for geological axis 1 or 2	No such approved exploration proposal for 2018-19 and 2019-20.	Nil	Entire mineralised area has been explored under G1 level by 5 nos of mining pits, 10 nos DTH bore holes, 7 nos core bore holes.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-do-	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL during 2018-19 and 2019-20	NIL	
1e	Balance reserve as on 01/04/20	Reserves(111 category)-1226895 tonnes Remaining Resources-(222 category)-165544 tonnes	Reserves(111 category)-1225043 tonnes Remaining Resources-(222 category)-165544 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Thickness of Limestone deposit is varying from 7 to 10m.About 2.905 Ha is non mineralised area and 13.345 Ha is mineralised area.The lease has expired on 31.03.2020.Only 13.345 Ha mineralised area and 2.905 Ha non mineralised area.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Mining proposed in Pit -4 during 2018-19 to 2019-20 in between E 2575- E2675, N5335- N 5425	During 2018-19 to 2019-20 mining has been carried broadly within the proposed area.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No such proposal for 2018-19 and 2019-20	Nil	
2c	Stripping ratio or ore to OB ratio	1:0.10 for 2018-19 and 2019-20.	Nil	Seggregation of interstitial waste has not been done during 2019-20.
2d	Quantity of topsoil generation in m3	-do-	Nil	
2e	Quantity of overburden generation in m3	-do-	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Bench height is within 3 m and mining has been carried in four nos of pits.Mining has been achieved from a single bench only.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit(Pit - 4) during 2018-19 and 2019-20	Production has been carried from Pit -4 during 2018-19 and 2019-20 (upto date of inspection)	
3b	Quantity of ROM mineral production proposed	2018-19-14250 tonnes 2019-20-6000 tonnes	2018-19-10210 tonnes 2019-20-6120 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	90% during 2018-19 and 2019-20	90% during 2018-19 and Seggregation of interstitial waste was not done during 2019-20	
3d	Quantity of mineral reject generation	2018-19-1584 m3 2019-20-333 m3	2018-19-377 m3 2019-20- Nil	

3e	Grade of mineral rejects generation and threshold value declared.	No such proposal approved	NA	Being used as mineral.
3f	Quantity of sub grade mineral generation.	No such proposal approved for 2018-19 and 2019-20	Nil	
3g	Grade of sub grade mineral generation	No such proposal approved for 2018-19 and 2019-20	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	No such proposal approved for 2018-19 and 2019-20.	Entire Limestone produced is saleable after removing interstitial clay/soil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal approved for 2018-19 and 2019-20.	Beneficiation is not warranted as the entire ROM is saleable directly in the open market without any further upgradation.	
3j	Provision of drilling and blasting in mineral benches	Jack Hammer drilling (33 mm dia) and blasting Burden-1m, Spacing-1.5m Slurry Explosive-20%, ANFO-80%	Jack Hammer drilling (33 mm dia) and blasting Burden-1m, Spacing-1.5m Slurry Explosive-20%, ANFO-80%	
3k	Provision of mining machineries in mineral benches	Dumpers-10 tonners-1 no	Dumper-10 tonners-1 no Excavator-0.9 m <sup>3</sup> -1 no	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	1.5m bench height	Excavator of 0.9m <sup>3</sup> is capable of digging the proposed height.	
3m	Total area covered under excavation/pits	2.7671 Ha	Approximately 2.7 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.10	Nil	Being used as mineral.No separate OB generation observed.

3o	Total area put in use under different heads at the end of year	3..3371 Ha by end of 31.03.2020	About 3.33 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2015-16 = 10111 tonnes 2016-17 = No proposals 2017-18-18540 tonnes 2018-19-14250 tonnes 2019-20-11880 tonnes	2015-16 = 10111 tonnes 2016-17 = No proposals 2017-18- 7356 tonnes 2018-19-10210 tonnes 2019-20-6120 tonnes	
3q	General remarks of inspecting officers on method of mining etc.			Mechanised mining is being done.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	2018-19-1584m3 waste 2019-20-335m3 waste	377 m3-2018-19 Nil-2019-20	
4b	Location of topsoil, OB and mineral reject dumps	-do-	Used in road making.No such dump exists within the lease.	
4c	Number of dumps within lease area and outside of lease area	No such proposal approved for 2018-19 and 2019-20	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No such proposal approved for 2018-19 and 2019-20	No such dump exists within the lease	
4e	Number of active and alive dumps.	No such proposal approved for 2018-19 and 2019-20	Nil	
4f	Number of dead dumps.	No such proposal approved for 2018-19 and 2019-20	Nil	

4g	Number of dumps established.	No such proposal approved for 2018-19 and 2019-20	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposal approved for 2018-19 and 2019-20	Nil	
4i	Length of Retaining wall or garland drain all along dumps	No such proposal approved for 2018-19 and 2019-20	Not applicable	
4j	Number of settling ponds	No such proposal approved for 2018-19 and 2019-20	Nil	
4k	Specific comments of inspecting officer on waste dump management			No waste and mineral reject dump exist within the lease area.

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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 such proposal approved for 2018-19 and 2019-20	Nil	Except Pit-5, no part of the lease area is completely exhausted of mineral and is yet to be matured to start back filling.
5b	Area under backfilling of mined out area	No such proposal approved for 2018-19 and 0.0949 Ha (Pit -5) to be back filled during 2019-20	Nil	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposal approved for 2018-19 and 2019-20	Nil	

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5d	Total area fully reclaimed and rehabilitated	No such proposal approved for 2018-19 and 2019-20	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Proposed back filling has not been carried.

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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).	To be submitted	Not submitted. Violation not issued as the mine was to expire after one month only.	
6b	Area available for rehabilitation (ha) .	949 m2 area of 4m depth (Pit-5) available for back filling	Nil	Except Pit-5, no part of the lease area is completely exhausted of mineral and is yet to be matured to start back filling. Violation not issued as the mine was to expire after one month only.
6c	afforestation done (ha).	950 nos in back filled areas of 949 m2 (pit-5) during 2019-20	Not carried out	Violation not issued as the mine was to expire after one month only.
6d	No. of saplings planted during the year	2018-19-3265 nos saplings in virgin area, safety zone 2019-20-5265 nos saplings in virgin area, safety zone and 950 nos sapplings in back filled area	Not carried out	Violation not issued as the mine was to expire after one month only.



6e	Cumulative no .of plants	9480 nos sapling plantation during 2018-19 and 2019-20	Not carried out
6f	Any other method of rehabilitation	1800m long rock wall fence to be constructed covering worked out benches during 2019-20	Not carried out
6g	Cost incurred on watch and care during the year	Rs 7,32,400.00 during 2018-19 and 2019-20	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	949m2 of 4m depth (Pit-5) during 2019-20	Void available but back filling not carried out.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	949m2 of 4m depth (Pit-5) during 2019-20	Not carried out
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	950 nos over 949 m2 back filled area	Not carried out
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal apporved for 2018-19 and 2019-20	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal apporved for 2018-19 and 2019-20	Nil

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	However there was a proposal to plant 2000 nos during 2018-19 and 4000 nos saplings during 2019-20 in in waste land.	Not carried out	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal approved for 2018-19 and 2019-20.	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal approved for 2018-19 and 2019-20.	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	No such proposal approved for 2018-19 and 2019-20.	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Crushing and Screening Plant was still within tha mine and None of the Final Mine Closure activity was carried by the Lessee as on date of inspection i.e 28.02.2020.

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**Mineral Conservation:**

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No such proposal approved for 2018-19 and 2019-20	Grade wise sorting not carried within the lease. 5714 tonnes despatched during 2018-19. 10760 tonnes despatched during 2019-20.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No such proposal approved for 2018-19 and 2019-20	Nil	

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7c	Different grade of mineral sorted out at mines.	No such proposal approved for 2018-19 and 2019-20	Not applicable	
7d	Any beneficiation process at mines .	No such proposal approved for 2018-19 and 2019-20	No beneficiation done as the quality of ROM is directly saleable in open market.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Beneficiation is not warranted as as the quality of ROM is directly saleable in open market.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposal approved for 2018-19 and 2019-20	Nil	
8b	Concurrent use or storage of topsoil	No such proposal approved for 2018-19 and 2019-20	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No such proposal approved for 2018-19 and 2019-20	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Pit -5 (949 m2 with 4 m depth) is to be back filled by waste 553 m3 during 2019-20	Not carried out.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	There was approved proposal for back filling pit-5(949m2 with 4m depth) during 2019-20.	Not carried out
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Plantation as proposal approved for 2018-19 and 2019-20 was not carried out.
8g	Survival rate		
8h	Water sprinkling on roads to control airborne dust		
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		

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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR and AR to be submitted.	Monthly return filed upto January 2020. But AR for 2018-19 and 2019-20 has not been filed. For Annual return violation was issued for non submission of AR fo 2018-19 on 03.09.2019.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	AR for 2018-19 and 2019-20 has not been filed.	Mining Engineer and Geologist not appointed.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	AR for 2018-19 and 2019-20 has not been filed.	About 3.33 Ha.	

9d	Scrutiny of Annual return on afforestation	AR for 2018-19 and 2019-20 has not been filed.	No plantation activity carried.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	AR for 2018-19 and 2019-20 has not been filed.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	AR for 2018-19 and 2019-20 has not been filed.	As on date of insepction Crushed Limestone mineral and ROM stock was there.Regarding quantity no infomation submitted by lessee.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	AR for 2018-19 and 2019-20 has not been filed.	
9h	Scrutiny of Annual return on fixed assets	AR for 2018-19 and 2019-20 has not been filed.	
9k	Scrutiny of Annual return on mining machineries	AR for 2018-19 and 2019-20 has not been filed.	One Excavator of 0.9m3.

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**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 :**

(S K MUDULI)

Indian Bureau of Mines