

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

**MCDR inspection REPORT**

**Hyderabad regional office**

**Mine file No :** AP/KNL/LST-209/HYD

**Mine code :** 19APR11050

- (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 : 17/03/2020
- (v) Prev.inspection date : 14/03/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : KOCHERUVU(22.096 HA)
- (b) **Registration NO.** : IBM/8834/2012
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : KOCHURE
- Taluka : DHONE
- Post office : KOCHURE
- Pin Code : 518222
- FAX No. : NIL
- E-mail : srinukocheruvu@gmail.com
- Phone : 94412233503
- (f) Police Station : DHONE
- (g) First opening date : 30/11/2007
- (h) Weekly day of rest : SUN
2. Address for : L FAHAD ALI KHAN  
correspondance : 8/125, KURNOOL ROAD,  
DHONE MANDAL, KURNOOL DISTRICT
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : DOLOMITE Main  
LIMESTONE Main

5. Name and Address of the

Lessee : L FAHAD ALI KHAN  
KURNOOL ANDHRA PRADESH  
Phone:  
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960 01/08/2006  
Plan/Scheme of Mining MP review under 17(1) MCR 2016 11/09/2017  
MP modif under 17(3) MCR 2016 25/03/2019

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Four DTH boreholes have been proposed during 2018-19.	12 DTH boreholes completed. The lessee carried out exploration by means of drilling 12 DTH boreholes during May, 2018 at an grid interval of about 150m x 250m	-
1b	Exploration over lease area for geological axis 1 or 2	G1 level for Limestone.	The lessee has carried out G2 level exploration both in Limestone as well as in Dolomite horizon at an grid interval of about 150mX250m. However, in SE pit G1 level at 50m x 50m grid interval	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	The Lessee himself. Expenditure details have not been furnished.	The Lessee had carried out exploration under the supervision of Qualified Person. The expenditure incurred is Rs.2,08,750/-	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2 scale of exploration	In the total mineralised area, G2 Scale of exploration has been already carried out .	
1f	General remarks of inspecting officers on geology, exploration etc	The ML area is of proterozoic formation of cuddapah Super group with G2 scale of exploration.	The subject ML area forms a part of Cuddapah super group of Vempally formation proterzoic group where in G2 scale of exploration has been carried out. The formations are trending NE-SW with a dip amount of 18-25 degrees towards SE.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Development cum Production is proposed between coordinates N1697183-1697265, E 811752 - 811881, AND N 1696790 - 1696849, E 812376 - 812391	Production cum development has been done within proposals made in approved document.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate bench of 0.5m in soil and 1.5m bench height of Limestone is proposed	No top soil Bench is developed as no fresh area is excavated, however Limestone bench is found developed	
2c	Stripping ratio or ore to OB ratio	1:0.35	1 :0	However for the whole deposit (upto probable limit) the ore to overburden ratio is 1::0.05
2d	Quantity of topsoil generation in m3	1463 cum	Nil	
2e	Quantity of overburden generation in m3	Generation of interburden is 390 cum	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Sedimentary bedded deposit of Carbonate formation(Lime stone and Dolomite) where development cum production is proposed formation of 1.5 bench height with suitable bench width	During the year 2018-19, development is being carried in SE pit only.	-

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	There exists one pit and the production is envisaged from the existing pit.	There exists one pit only and production has been done from this pit during the year 2018-19 & 2019-20.	
3b	Quantity of ROM mineral production proposed	3124 T of Limestone.	2300 T of Limestone	Production during 2018-19
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	nIL	There is no scope of generation of mineral rejects.
3e	Grade of mineral rejects generation and threshold value declared.	The Threshold value declared for Limestone is CaO- 34% (Min.) and MgO-5% (Max.)	There is no generation of Mineral rejects. The grade of Limestone occurring in the ML area is above threshold value i.e Cao% ranges from 34.4 to 43.96.	
3f	Quantity of sub grade mineral generation.	Nil	-	There is no scope of generation of sub grade mineral.
3g	Grade of sub grade mineral generation	No such proposal is made.	No sub grade mineral is generated.	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	No segregation of Limestone is done during the year 2018-19.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal is made	-	No beneficiation study is proposed since there is no generation of sub grade mineral.

3j	Provision of drilling and blasting in mineral benches	Provision for Jack hammer drilling and blasting is envisaged in mineral benches of bench height of 1.5m with .75X2X1.5 (BurdenX SpacingX Depth). The explosive used per hole is 0.3kg. Yeild per hole is 2.7T	However during the year 2018-19, no drillig and blasting is carried out for the production of Limestone.	-
3k	Provision of mining machineries in mineral benches	No provision for mining machinery has been done.	Except jack hammer drilling with the aid of compressor, no other mining macinary is deployed. The mining operations are of manual nature.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	There are no overburden benches. Proposed Benches in mineral are of height of 3m in two sub benches 1.5 m each.	No active mining operation are being conducted in mine. A single bench of 2.5m exists.	
3m	Total area covered under excavation/pits	1.2976	0.0624 ha	-
3n	Ore to OB ratio for the pit/mine during the year.	The proposed ore to overburden ratio for the year 2018-19 is 1:0.05	Nil, during 2018-19	
3o	Total area put in use under different heads at the end of year	Area broken=0.0624 ha Roads=0.3 ha Afforestation=0.6 ha	Area broken=0.0624 ha Roads=0.3 ha Afforestation=0.1 ha.	-

3p	Production of ROM mineral during the last five year period as applicable	2013-14 to 2016-17= No valid approved proposals exists and 2017=18=3124 T. 2018-19= 3124 T	2013-14 to 2016-17= No production is done. and 2017=18=Nil T, 2018-19 = 2300 T
3q	General remarks of inspecting officers on method of mining etc.	Open cast, manual method of mining is proposed where Jackhammer drilling with aid of tractor mounted compressor for drilling of the blast hole for a bench height of 1.5m is proposed.	Open cast, manual method of mining is being carried out

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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)	The top soil removed to be utilised for afforestation purpose and the interburden generated is proposed for backfilling of the encroachment done in the 7.5 buffer zone on the SE of the ML area.	Nil	

4b	Location of topsoil, OB and mineral reject dumps	The top soil generated during 2018-19 is meant for concurrent use for afforestation in 7.5m buffer zone and there is no proposal of generation of mineral rejects.	Nil	
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	There exists no dumps with in or outside ML area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No such proposal is made.	Does not arise.	
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.	None	Does not arise.	
4i	Length of Retaining wall or garland drain all along dumps	None,	-	There exists no dumps.
4j	Number of settling ponds	None	-	
4k	Specific comments of inspecting officer on waste dump management	no waste dumps have been proposed since there is no generation of waste material. The interburden likely to be generated is proposed for backfilling the encroachment of 7.5m buffer zone.	There is neither generation of waste material nor any side/overburden. Thus the waste dump management does not arise. However as proposed, the inerburden for backfilling of 7.5m buffer zone could not take place as no waste generation during the year 2018-19.	



## 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 exists since the mineral is yet to exhaust.	Does not arise.	The mineral is continuing at depth and backfilling at this stage does not arise.
5b	Area under backfilling of mined out area	974 cum in 2018-19, To restore the 7.5 meter safety zone.	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	The concurrent use of top soil for afforestation in the 7.5m buffer zone is proposed.	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Does not arise.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No such proposal exists in the core lease area. However there is a proposal of backfilling in the encroached 7.5m buffer zone in the year 2018-19.	The mineral is yet to exhaust in the core lease area and at this stage the backfilling and reclamation does not arise. However there is proposal of backfilling in the encroached 7.5m buffer zone in the year 2018-19	The encorached 7.5 m buffer zone has been proposed for reclamation and the lessee did undertook this activity since no waste generation in the designated year.

## Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and corsectly. Rule 23 E(2).	Yes, to be submitted with in the time frame.	Yes, submitted with in the time frame.	
6b	Area available for rehabilitation (ha) .	No such proposal exists since there is no area for rehabilitation .	The mineral is yet to exhaust and thus there is no area for rehabilitation.	

6d	No. of saplings planted during the year	During 2018-19, 100 saplings have been proposed.	Afforestation has been done but the survival rate is poor. 40 saplings have survived.	
6e	Cumulative no .of plants	200 saplings	115 saplings, non availability of area for plantation	
6f	Any other method of rehabilitation	None	-	The mine has not attained the rehabilitation phase as the mineral is yet to exhaust.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such approved proposal exists since there is no waste land with in ML aea..	Does not arise.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	No Environmental monitoring proposals have been made.	-	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Except complimentary afforestation along 7.5m buffer zone, no other proposals have been made.	As proposed afforestation has been done.	

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	During the year 2018-19, it is proposed to produce 3124 T of Limestone.	2300 MT ore is produced during the year 2018-19	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual method of sorting of Limestone is proposed.	Manual method of sorting of Limestone is being done.	
7c	Different grade of mineral sorted out at mines.	Yes, sorting of different grades of Limestone is proposed.	Nil during the year	

7d	Any beneficiation process at mines .	No such approved proposal exists.	Does not arise.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No specific proposals have been made.	Manual mining is practiced and no proliferage mineral is observed

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	974 m3 Separate removal of top soil during 2018-19 is proposed and its concurrent usage for plantation.	No top soil is removed during 2018-19	
8b	Concurrent use or storage of topsoil	Yes, concurrent usage of top soil is proposed for afforestation.	No top soil is removed during 2018-19 for concurrent use of afforestation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No such proposal exists except generation of interburden with in the Limestone and to be backfilled.	There exists no overburden and waste rock.During the year 2018-19, there was no generation of interburden/intercalated material with in the Limestone horizon.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such approve proposal exists as there is no overburden/was te rock.	There exists no overburden and waste rock and hence dump does not arise and restoring the land to its original landscape with such material does not arise.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such approved proposal exists for phased restoration, reclamation and rehabilitation of the affected land due to mining.	Does not arise
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The ML area is spread with thorny bushes. Complimentary afforestation is proposed in the 7.5m buffer zone..	The unbroken area in the ML area is spread with thorny bushes. The complimentary afforestation in 7.5m buffer zone is being carried out. About 115 saplings survived in the 7.5m buffer zone.
8g	Survival rate	The proposed survival rate of plantation is 70%	The actual survival rate of plantation is about 40%
8h	Water sprinkling on roads to control airborne dust	Proposal of water sprinkling on haulage road to control airborne dust has been made.	During the year 2018-19, water sprinkling arrangement is done.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Afforestation proposals along the 7.5m have been given to improve the aesthetic beauty in and around mine.	The complimentary afforestation done along the 7.5m buffer zone adds aesthetic beauty to in and around the mine area.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly return shall be submitted before the 10th of every month in respect of preceding month. and annual return which shall be submitted before the 1st July each year for the preceding Financial year.	Returns have been submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information on employment of Mining Engineer and Geologist is to be furnished.	No information with regards to appointment of Minin Engineer and Geologist is furnished in Annual Return.	A Violation of Rule 55(1)(C)(ii) with regards to non appointment of Part time Mining Engineer and Geologist has been pointed out vide this Office lr.no.AP/KNL/Lst-209/Hyd on 28.2.2019.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern under pits, dumps etc to be furnished.	Land use pattern is furnished in Annual Return is as follows: Area broken=0.0624 ha Roads=0.3 ha Afforestation=0.1 ha.	
9d	Scrutiny of Annual return on afforestation	Information on plantation to be furnished.	Information on 40 saplings has beenfurnished.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Information on mineral rejects to be furnished.	Mineral rejections furnished to be nil since there is no mining activity during the year 2018-19.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	To be furnished.	The ROM stock furnished to be: Limestone= 94 T and Dolomite=Nil	
9h	Scrutiny of Annual return on fixed assets	To be furnished	Furnished to be nil.	
9k	Scrutiny of Annual return on mining machineries	To be furnished	Only details of one unit of Air Compressor of 150.00 cum/mn has been furnished.	

**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

**Date :****(SHRI IBRAHIM SARIF)**

Indian Bureau of Mines