

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : Sri l Sreenivasulu, Lessee's representative
Official with
Designation
- (iv) Date of Inspection : 21-OCT-21
- (v) Prev.inspection date : 15-OCT-21

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-NOV-07
- (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-AUG-06
Plan/Scheme of Mining MP review under 17(1) MCR 2016 11-SEP-17
MP modif under 17(3) MCR 2016 25-MAR-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	6 CORE & 8 DTH boreholes to be during the 2019-20 & 2020-21	No exploration carried out during the years 2019-20 & 2020-21	Violation pointed out
1b	Exploration over lease area for geological axis 1 or 2	G1 level for Limestone.	Nil during the year	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	Not mentioned in the approved document.	Nil during the year	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	G1 scale of exploration to be carried out	Nil during the year	In the total mineralised area, G2 Scale of exploration has been already been carried out .
1e	Balance reserve as on 01/04/20	As on 28.02.2019 : 121 & 122 : 1.6409 Million Tonnes Reserves depleted 2019-20: 2020-21 :	As on 28.02.2019 : 121 & 122 : 1.6409 Million Tonnes Reserves depleted 2019-20 : 32,912 Tonnes 2020-21 : 3000 Tonnes	

1f	General remarks of inspecting officers on geology, exploration etc	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.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development cum Production is proposed between coordinates N1696790-1696849, E 812376 - 812391, AND N 1696785 - 1696845, E 812365 - 812381	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 & OB Bench is developed as mining is carried out in mineralised zone in ore benches only	
2c	Stripping ratio or ore to OB ratio	1:0.05	Nil	However for the whole deposit (upto probable limit) the ore to overburden ratio is 1::0.05
2d	Quantity of topsoil generation in m3	No proposal of Top soil generation for the year 2020-21	Nil	

2e	Quantity of overburden generation in m3	Generation of interburden is 1518 cum for the year 2020-21	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Sedimentary bedded deposit of Carbonate formation(Limestone and Dolomite) where development cum production is proposed formation of 1.5 bench height with suitable bench width. During the year 2020-21, development is being carried in SE and West pit.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	There exists two pits and the production is envisaged from both the pits, i.e SE Pit and West pit.	Mining operations are being carried out in both the pits	
3b	Quantity of ROM mineral production proposed	Limestone. 2019-20 : 40105 Tonnes 2020-21 : 37913 Tonnes	32912 Tonnes 2019-20 3000 Tonnes 2020-21 (As per Monthly returns submitted)	
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.	No such proposal is made.	No sub grade mineral is generated.	There is no scope of generation of sub grade mineral.
3g	Grade of sub grade mineral generation	Not applicable -		
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	No segregation of Limestone is done during the year 2020-21.	
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 0.75X2X1.5 (BurdenX SpacingX Depth). The explosive used per hole is 0.3kg. Yeild per hole is 2.7T	However during the year 2020-21, 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.	Excavator of 1.2 cum capacity is being used instead of mining operations to be carried out by manual .	

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.	A single bench of 2.5m observed.
3m	Total area covered under excavation/pits	1.2976	About 0.0624 ha under excavation of pits
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	Nil, during 2020-21
3o	Total area put in use under different heads at the end of year	Area broken=1.29764 ha Roads=0.3 ha Afforestation=0.6 ha Top Soil storage : 0.006 Ha Afforestation : 0.51 Ha	Land use pattern is furnished in Annual Return is as follows: Current working =1.55 ha waste disposal= 0.2 Ha Occupied by plant, Roads=0.3 ha Afforestation=0.1 ha.
3p	Production of ROM mineral during the last five year period as applicable	2016-17= No valid approved production proposals exists and 2017-18=3124 Tonnes. 2018-19= 3124 Tonnes 2019-20 : 40105 Tonnes 2020-21 : 37915 Tonnes	2016-17= No production is done. and 2017-18=Nil Tonnes, 2018-19 = 2300 Tonnes 2019-20 : 32913 Tonnes 2020-21 : 3000 Tonnes
3q	General remarks of inspecting officers on method of mining etc.		Open cast semi mechanised method of mining is being carried out by using small capacity excavator of 0.9 cum capacity

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal for the year 2020-21	Nil	
4b	Location of topsoil, OB and mineral reject dumps	Interburden generated to be utilised for backfilling in the safety zone area of 7.5 meters between Ml pillar K-19,20 & 21	No interburden generated during the year, hence no backfilling carried out.	
4c	Number of dumps within lease area and outside of lease area	No proposal	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.	No proposals	-	
4f	Number of dead dumps.	No proposals for the year 2020-21	-	
4g	Number of dumps established.	No proposal of establishing the dump	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposals	Does not arise.	
4i	Length of Retaining wall or garland drain all along dumps	-	Not applicable	There exists no dumps.
4j	Number of settling ponds	Not applicable	-	

4k	Specific comments of inspecting officer on waste dump management	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 2020-21.
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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 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	0.0127 Ha 2020-21 to restore the 7.5 meter safety zone.	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Does not arise.	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	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
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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).	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 2020-21, 100 saplings have been proposed.	Afforestation hass been done but the survival rate is poor. 40 saplings have survived.	
6e	Cumulative no .of plants	300 saplings	155 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.
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.	As proposed afforestation has been done.	Complimentary afforestation along 7.5m buffer zone is being carried out to improve aesthetic beauty.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	During the year 2020-21, it is proposed to produce 37913 T of Limestone production to be dispatch	2911 Tonnes ore is dispatched the year 2020-21	
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			Manual mining is practiced and no proliferage mineral is observed

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposal for the year 2020-21	Nil
8b	Concurrent use or storage of topsoil	No proposal	No top soil is removed during 2020-21 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 2020-21, 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/waste rock.	There exists no overburden and waste rock and hence use of waste rock 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	No such proposal in the approved document	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.	Water sprinkling arrangement is done to suppress the dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The complimentary afforestation done along the 7.5m buffer zone adds aesthetic beauty to in and around the mine area.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. to be submitted up to September 2021 A.R. to be submitted up to F.Y. 2020-21	M.R. submitted up to August 2021 A.R. to be submitted up to F.Y. 2019-20	
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 Mining 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 is furnished in Annual Return is as follows: Area under reclaimed and Rehabilitated : 1.05 Ha Current working =0.5 ha waste disposal= 0.2 Ha Occupied by plant, Roads=0.3 ha Afforestation= 0.1 ha.	No area is reclaimed and rehabilitated Current working =1.55 ha waste disposal= 0.2 Ha Occupied by plant, Roads=0.3 ha Afforestation=0.1 ha. Land use for mining and allied activities is more or less as above.
9d	Scrutiny of Annual return on afforestation	-	40 saplings survived is observed.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1164 Tonnes of Graded ore	As submitted by lessee
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	CoP= Rs. 160 EMP=Rs. 190/- Sale value =Rs. 190/-	Details submitted could not verifies as no records maintained
9h	Scrutiny of Annual return on fixed assets	Rs. 1950000	As submitted by lessee
9k	Scrutiny of Annual return on mining machineries	1.2 cum shovel, 12 cum tipper, Air compressor : 0.1 cum	Above machines are being employed in the lease area.

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)	30-NOV-21				
MCDR17 Rule 54(b)	30-NOV-21				
MCDR17 Rule 55(1)(3)	30-NOV-21				

Date :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines