

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

**MCDR inspection REPORT**

**Hyderabad regional office**

**Mine file No :** AP/NLG/LST-10/HYD

**Mine code :** 38APR14009

- (i) Name of the Inspecting : **M017** ) **MANISH K MAINDIRATTA**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Shri Jwannes reddy and Shri Prasad  
Official with  
Designation
- (iv) Date of Inspection : 18/02/2020
- (v) Prev.inspection date : 10/01/2019

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SRISANKARA**
- (b) **Registration NO.** : **IBM/6499/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : **TELANGANA**  
District : **NALGONDA**  
Village : **MELLACHERUVU**  
Taluka : **MELLACHERUVU**  
Post office : **MELLACHERUVU**  
Pin Code : **508246**  
FAX No. : **91-40-23076543**  
E-mail : **keerthi.mines2014@gmail.com**  
Phone : **040-23076543,23076539**
- (f) Police Station : **MELLACHERUVU**
- (g) First opening date : **26/04/1986**
- (h) Weekly day of rest : **SUN**
2. Address for : **MELLACHERUVU VILLAGE & MANDAL**  
correspondance : **NALGONDA DISTRICT**  
**A.P**
3. (a) Lease Number : **APR0098**
- (b) Lease area : **141.7**
- (c) Period of lease : **20**
- (d) Date of Expiry : **23/04/2006**
4. Mineral worked : **LIMESTONE** Main

## 5. Name and Address of the

Lessee : KEERTHI INDUSTRIES LTD  
 PLOT.NO.40, IDA ,BALANAGAR  
 HYDERABAD TELANGANA  
 Phone:040-23076538,23076539  
 FAX :040-23076543

Owner : J.SESHAGIRI RAO  
 M/S. KEERTHI INDUSRIES  
 LTD., PLOT NO. 40, IDA,  
 BALANAGAR HYDERABAD-37  
 HYDERABAD TELANGANA  
 Phone: 040-23076538  
 FAX : 040-23076543

Agent : Varkala Seenaiiah  
 M/S. KEERTHI INDUSTRIES LTD  
 MELLACHERUVU (V) & (M)  
 NALGONDA DIST. NALGONDA  
 TELANGANA  
 Phone:  
 FAX :

## Mining Engineer

Name : G MAHENDRA,Full Time  
 Qualification : B TECH MINING  
 Appointment/ : 06/08/2018  
 Termination date

## Manager

Name : D Jwannes Reddy  
 Qualification : B TECH MINING  
 Appointment/ : 22/07/2016  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	15/09/2003
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	11/10/2007
		Modif.of approved Mining Plan	09/12/2010
		Mining Scheme rule 12 MCDR1988	16/10/2012
		MP modif under 17(3) MCR 2016	13/11/2017

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2018-19= 8 core boreholes proposed. 2019-20= 7 DTH proposed	2018-19= NIL 2019-20= NIL so far.	Violation 11(1) and rule 12(3)
1b	Exploration over lease area for geological axis 1 or 2	Drilling proposed to upgrade the level of G axis	G1=39.37 ha. G2=14.21 ha. G4=68.12 ha.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Drilling proposed	2018-19 NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Proposed to upgrade level of exploration	As of now the area under G2=14.21 ha. And G4=68.12 ha. Need to be explored to G1 level of exploration.	
1e	Balance reserve as on 01/04/20	Reserves as on 6/10/2017 111=2.835 mT 122=3.442mT 211=18.379 mT 334=49.293mT	Depletion 6/10/2017-31/3/2018= 0.268 mT 2018-19 = 0.646=mT Balance reserves as on 1/4/2019= 111=2.139mT 211=0.147mT	About (80mx 50mx3m)has been developed in G4 area i.e, about 30000T has been taken from it.
1f	General remarks of inspecting officers on geology, exploration etc		The water table in the area is at 70mRL. The permission of CGWB is required for extending the pit deeper. Lease renewal has not been done since 23.04.2006. Lease applied on 24.01.2005. Mine is ever since working under deemed renewal and lease period is deemed to have extended upto 2036. The formal order and the supplementary deed has still not been issued.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	2018-19 In Pit-1, working was proposed in 3 benches between gridline E4850-E5300, N9650-10050 to a depth of 81 mRL. Further it was proposed to develop a new pit in eastern block between E6080-6180, N10550-10650 upto a depth of 78 mrl.	2018-19 The working in Pit-1 is broadly as per proposal. The lessee is undertaking development work for new pit in eastern block.	The water seepage in pit-2 need to be examined for the cause and the permission of CGWB need to be taken in the case.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	2018-19=3041 cu m proposed.	However in 2018-19- no top soil generation has been reported.  The top soil is worked separately wherever possible in 2019-20 so far.	
2c	Stripping ratio or ore to OB ratio	2018-19= 1:0	as per proposal in 2018-19	
2d	Quantity of topsoil generation in m3	2018-19=3041 cu m proposed.	However in 2018-19- no top soil generation has been reported.	2019-20= 1811 T (1500 cu m) generated so far.
2e	Quantity of overburden generation in m3	Nil	Nil	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The development in pit1 is restricted due to the presence of water table, as the lessee has not got the permission from the competent authority for extending the working deeper after extraction of water table. In the eastern block, work is to be done after completing the exploration to G1 level of exploration. The work is done in Pit-1 with 3 benches of about 8m height and pit width is sufficient for movement of machinery. However, vibration study is to be done to ensure safety of temple near by
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## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2018-19 In Pit-1, working was proposed in 3 benches between gridline E4850-E5300, N9650-10050 to a depth of 81 mRL. Further it was proposed to develop a new pit in eastern block between E6080-6180, N10550-10650 upto a depth of 78 mrl.	2018-19 The working in Pit-1 is broadly as per proposal.	
3b	Quantity of ROM mineral production proposed	2018-19-737075 T	2018-19= 646400 T	
3c	Recovery of sailable/usable mineral from ROM production	Entire mineral was proposed to be consumed.	Entire mineral produced is consumed.	

3d	Quantity of mineral reject generation	No mineral reject generation anticipated in 2018-19	Nil generated in 2018-19	
3e	Grade of mineral rejects generation and threshold value declared.	-	Not Applicable	
3f	Quantity of sub grade mineral generation.	-	-	
3g	Grade of sub grade mineral generation	-	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	-	Not Applicable	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not Applicable	
3j	Provision of drilling and blasting in mineral benches	115mm dia drill holes with blasting using ANFO Slurry and Nonel initiating system proposed	Practiced as per proposal	
3k	Provision of mining machineries in mineral benches	Mechanized mine proposed using excavator - tipper combination.	1.2 cu m back hoe type excavator (1 no) & 2 no of 0.9 cu m bucket capacity excavator along 8 nos of tippers of 18T are being used. 1 drill machine and 2 compressor (1 electrical and 1 diesel is used. The powder factor of 5 to 6 t/kg explosive has been obtained.	Vibration study need to be undertaken

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		9m max high benches are proposed. However the bench height of 8m is being maintained which is suitable for method of mining proposed in MP/SOM with about 9.5 m boom height.	Excavator Tata Hitachi Zaxis 370
3m	Total area covered under excavation/pits	Area covered under mining till 2021-22= 45.709 ha.	2018-19 =45.048 ha	
3n	Ore to OB ratio for the pit/mine during the year.	2018-19= 1:0	As per proposal	
3o	Total area put in use under different heads at the end of year	Area degraded till 2022-23 Pit- 45.709 ha Infras- 0.205ha. Green belt 7.707 hectare.	Pit- 45.048ha. Infra and roads= 6.556 ha.	Area under infrastructure is reported wrongly.
3p	Production of ROM mineral during the last five year period as applicable	2014-15= 769680 T 2015-16=785041 T 2016-17= 821259 T 2017-18(Oct 17-Mar ch 2018)= 380537 T 2018-19=737257 T	2014-15= 526843 T 2015-16=705670 T 2016-17= 502548 T 2017-18= 594636 T 2019-20=646400T	
3q	General remarks of inspecting officers on method of mining etc.	The groundwater seepage has been observed and the lessee is advised to approach competent authority for clearance to extend the working further.	The markamma temple is just about 100m from the nearest working . The vibration study is required as per rule 38 of MCDR'17.	

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Concurrent use of soil proposed in 2018-19 and no generation is proposed in 2019-20	No generation reported in 2018-19. The soil is being used for plantation at site.
4b	Location of topsoil, OB and mineral reject dumps	No dump proposed	No dump created so far of topsoil, OB or mineral reject.
4c	Number of dumps within lease area and outside of lease area	No dump proposed	No dump created of topsoil, OB or mineral reject is noticed.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No dump proposed	No dump created so far of topsoil, OB or mineral reject.
4e	Number of active and alive dumps.	Nil	Nil
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No retaining wall proposed	Not done
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Not done
4j	Number of settling ponds	No settling pond proposed	Not having any settling pond
4k	Specific comments of inspecting officer on waste dump management		-----

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	There was no proposal of backfilling in the plan.	The marker bed is not exposed in pit-1 . however the bottom benches of pit-2 are in water. So the same couldnot be verified . However it has been reported that pink limestone is not exposed in pit-2 as well.
5b	Area under backfilling of mined out area	No proposal	No area is under backfilling at present.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil proposed for simultaneous use in plantation in 2018-19	NIL generated.
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The backfilling of the pit is not possible due to the lack of Over burden/ waste material. It can only be converted into water table

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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).	-	Not submitted.	
6b	Area available for rehabilitation (ha) .	No proposal for rehab. of worked out benches	Not Done	
6c	afforestation done (ha).	No proposal for rehab. of worked out benches	Not done	
6d	No. of saplings planted during the year	No proposal for rehab. of worked out benches	Not done	

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6e	Cumulative no .of plants	No proposal for rehab. of worked out benches	Nil	
6f	Any other method of rehabilitation	-	-	
6g	Cost incurred on watch and care during the year	-	-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal for rehab. By backfilling	Not done	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal for rehab. By backfilling	Not done	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal for rehab. By backfilling	Not done	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal for rehab. By backfilling	Not done. However at the end of the deposit the it has to be converted into water reservoir.	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	2500 saplings over 1 ha proposed in 2018-19	5000 saplings planted over 2 ha in 2018-19	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2500 saplings over 1 ha proposed in 2018-19	5000 saplings planted over about 2 ha. land	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	2500 saplings over 1 ha proposed in 2018-19	5000 saplings planted over about 2 ha. land in 2018-19	NIL survival has been observed. However as per the records M/s KIL had procured plants from
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	-do-	-do-	-do-
6p	Compliance of environmental monitoring (core zone and buffer zone)		Environmental monitoring is done regularly.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			

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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 proposal	No grade wise limestone sorting is undertaken	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Not Applicable	
7c	Different grade of mineral sorted out at mines.	No proposal	Not Applicable	
7d	Any beneficiation process at mines .	No proposal	Mineral processing is not done in the lease . Only sizing is done and that too at the crusher installed in cement plant.	

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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Concurrent utilization of top soil Proposed	No top soil generated in 2018-19	
8b	Concurrent use or storage of topsoil	Proposed	Not applicable as topsoil is not generated.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Noe done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not Applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2500 saplings over 1 ha proposed in 2018-19	5000 saplings planted over about 2 ha. land in 2018-19, but survival need to be improved.	
8g	Survival rate	-	about 50% .	
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling done regularly with 5KL tanker.	

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. Submitted up to Jan 2020 A.R. Submitted up to 2018-19	Jan prod- 58330T (YTD=466952T)

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - G Mahendra Geologist- B Maheswara	As per the submission
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	As reported in Return Pit- 45.048 ha. Infra,Road=6.5 56 ha.	Area under pit is Broadly as per submission.
9d	Scrutiny of Annual return on afforestation	5000 saplings with 60% survival within ML. reported in returns	However lessee has reportedly purchased the same from ITC Bhadrachalam.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL reported	NIL observed
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM production of 646400lac ton reported	During inspection it was found to be as per submission
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		CoP has been submitted as 177 Rs PMT with mining cost as 56.89 Rs PMT and ex mine price also submitted as 177 Rs PMT
9h	Scrutiny of Annual return on fixed assets	Submitted	
9k	Scrutiny of Annual return on mining machineries	Submitted	Machinery deployed as submitted

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**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
MCDR17	Rule 11(1)	13/03/2020			
MCDR17	Rule 38	13/03/2020			
MCDR17	Rule 26(1)	13/03/2020			

**Date :**

**(MANISH K MAINDIRATTA)**

Indian Bureau of Mines