

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

**Review and updation of Mining Plan REPORT**

**Bangalore regional office**

**Mine file No :** KNT/GLB/LST/18/BNG

**Mine code :** 38KAR10008

- (i) Name of the Inspecting : **A101** ) **ARUN KUMAR**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri K. Ramanjaneya Reddy ,Mines Manager, Mining Engin  
Official with  
Designation
- (iv) Date of Inspection : 27/02/2020
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **MALKHED**
- (b) **Registration NO.** : **IBM/12191/2012**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **GULBARGA**
- Village : **MALKHED**
- Taluka : **SEDAM**
- Post office : **MALKHED ROAD**
- Pin Code :
- FAX No. : **----**
- E-mail : **southindiacementslimited@**
- Phone : **9703219073 (M), 0406661463**
- (f) **Police Station** : **MALKHED**
- (g) **First opening date** :
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **M/s SOUTH INDIA CEMENTS LIMITED,**  
**correspondance** **22/2, 3RD MAIN ROAD,**  
**CHAMARAIPET, BANGALORE - 560018**
3. (a) **Lease Number** : **KAR1528**
- (b) **Lease area** : **159.38**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **01/08/2000**
4. **Mineral worked** : **LIMESTONE** **Main**

## 5. Name and Address of the

Lessee : SOUTH INDIA CEMENTS LTD  
GULBARGA KARNATAKA  
Phone:  
FAX :

Owner : SOUTH INDIA CEMENTS LTD  
GULBARGA KARNATAKA  
Phone:  
FAX :

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	02/08/1993
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	04/08/2005
	:	Modif.of approved Mining Plan	04/02/2009
	:	Mining Scheme rule 12 MCDR1988	29/09/2015

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	12 boreholes proposed in 2015-16	No exploratory work carried out	Violation issued for non compliance
1b	Exploration over lease area for geological axis 1 or 2	G,G2 & G3	G1-15.71 Ha,G3-49.02 Ha	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	No exploratory work carried out & no expenses incurred	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	40.92 Ha	Proposed in the next plan period
1e	Balance reserve as on 01/04/20	Nil	14 Million Tons	As per AR submitted for FY-2018-19
1f	General remarks of inspecting officers on geology, exploration etc			12 exploratory boreholes proposed in 2015-16 have not been carried out. Violation issued

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed location of working: N-1894728-1894837,E-730042-730252	Proposed location of working: N-1894708-1894787,E-73049-730140	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in mineral proposed & OB to be scrapped	Separate benches are maintained in mineral	Mineral-3 benches ,OB-Nil (thickness of OB is very less)
2c	Stripping ratio or ore to OB ratio	1:0.00	Nil	No development proposed
2d	Quantity of topsoil generation in m3	420m3	420m3	Used for plantation on the lease boundary

2e	Quantity of overburden generation in m3	No proposal	Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development was carried out within the proposed limit. The thickness of the development varied from 0.2 mts to 1 mts

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit proposed	Mining carried out in one pit	Approximate working Pit dimension (410 X 260 X 10) mts
3b	Quantity of ROM mineral production proposed	12,99,870 Tones	1,53,507 Tones	Low market demand
3c	Recovery of sailable/usable mineral from ROM production	90%	100%	All the excavated ROM were sent to crusher with no loss
3d	Quantity of mineral reject generation	144430 Tons	Nil	Violations pointed out for non compliance
3e	Grade of mineral rejects generation and threshold value declared.	Not specified	Nil	No generation of mineral reject
3f	Quantity of sub grade mineral generation.	No proposal	Nil	Nil
3g	Grade of sub grade mineral generation	No proposal	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal for segregating from ROM	All excavated ROM is supplied to the crusher	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No such beneficiation study carried out	Nil
3j	Provision of drilling and blasting in mineral benches	Provision made for Deep hole drilling and blasting	Deep hole drilling and blasting is carried by as per proposal	115 mm drill dia used, blasting carried out using AN/Slurry explosive in conjunction with detonator.
3k	Provision of mining machineries in mineral benches	Provision of mining machineries made in mineral benches	Mining machineries were used to win the limestone	2 Hydraulic Excavator & 3 tippers deployed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 9-10 M proposed	6-7 Mts bench height maintained	Benchheight maintained
3m	Total area covered under excavation/pits	15.03 Hat at the end of plan period	8.00 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.00	Nil	No development proposed
3o	Total area put in use under different heads at the end of year	Excavation area-15.03 Ha, top soil storage-3.00Ha, Infrast ructure-5.50Ha, Roads-1.36 Ha, Green belt-3.38, others-0.12 Ha & untouched-36.34 Ha at the end of plan period	Covered under workings-8.0Ha	Violation issued under Rule 45(7).
3p	Production of ROM mineral during the last five year period as applicable	2015-16-12,97,215 2016-17-13,02,503 2017-18-13,05,810 2018-19-12,99,870 ( in tonnes)	2015-16: 1,12,312 2016-17:1,32,636 2017-18:1,57,853 2018-19:1,53,507 ( in tonnes)	Actual production is within the proposed limits

3q	General remarks of inspecting officers on method of mining etc.	Fully mechanized Opencast mines with deep hole drilling & blasting were adopted to extract the limestone
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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)	OB generated was proposed to be dumped along the safety zone	Separate dumping of OB carried out	Violation issued
4b	Location of topsoil, OB and mineral reject dumps	OB generated was proposed to be dumped along the safety zone of seasonal stream towards the southern side	Location of OB: N1895349-1895394 to E729930-730100 and, N1894990-1895038 to E729445-729620	Violation issued
4c	Number of dumps within lease area and outside of lease area	No proposal	2 dumps were present within the ML area	Violation issued
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	along the safety zone of seasonal stream	OB dumped within UPL	Nil
4e	Number of active and alive dumps.	No proposal	2 active & alive dumps	Nil
4f	Number of dead dumps.	No proposal	Nil	Nil
4g	Number of dumps established.	No proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil	Nil
4j	Number of settling ponds	No proposal	Nil	Nil

4k	Specific comments of inspecting officer on waste dump management			OB/top soil generated was proposed to be dumped along the safety zone of seasonal stream towards the southern side in trapezoidal shape, where as 2 OB dump made. Violation issued.
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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 proposal	Nil	Pit is not devoid of mineral
5b	Area under backfilling of mined out area	No proposal	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	OB/top soil generated was proposed to be dumped along the safety zone	Top soil generated was used for the purpose of plantation	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Limestone persist in depth and pit is not matured for back filling more over there is no sufficient quantity of OB for back filling

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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	PMCP report to be submitted by 1st of july every year	PMCP report not submitted	Violation issued
6b	Area available for rehabilitation (ha) .	No proposal	Nil	Nil
6c	afforestation done (ha).	0.50 Ha	1.00Ha	Nil
6d	No. of saplings planted during the year	750 no of saplings proposed	1350 saplings planted within & outside the ML area	Nil
6e	Cumulative no .of plants	3,750 Nos	5,750 Nos.	Nil
6f	Any other method of rehabilitation	No proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	Not specified	Not available	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	Nil	Pit not matured for backfilling
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	A small worked pit in the past is made as water reservoir	Nil



6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.50ha proposed with 750 No of sapling	1.00 ha is covered with 1350 No's of sapling	Within 7.5 meters of barrier zone
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation and afforestation is proposed	Plantation and afforestation is carried out	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Season wise environment monitoring of Air, Water, Noise and soil proposed	Season wise environment monitoring of Air, Water, Noise and soil carried out	All environment parameters were observed to be within limits
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The lessee had carried out PMCP activities as per the proposals, however violation issued for non submission of PMCP report

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Direct ROM proposed to dispatch to the captive cement plant after crushing	Direct ROM dispatched to their captive cement plant	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise sorting proposed	All the blasted material is transported to crusher for further sizing	Impact Crusher of 500 TPH, outsize of -25 mm

7c	Different grade of mineral sorted out at mines.	Direct ROM dispatched to crusher	Direct ROM dispatched to crusher having 500 TPH capacity	Nil
7d	Any beneficiation process at mines	No proposal	Not applicable	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Beneficiation of Limestone is not required and entire Rom produced is being utilized in Cement plant

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Top soil removed was used for plantation	Nil
8b	Concurrent use or storage of topsoil	Concurrent use and storage of topsoil is proposed	Concurrent use of topsoil is carried out	Topsoil is concurrently used for plantation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	2 Nos of separate OB dump made	Violation issued
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	Limestone is not exhausted and pit is matured for back filling.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	Nil

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	750 no of sapling proposed within the ML	WML- 750 saplings & OML- 600 Saplings	Nil
8g	Survival rate	Not specified	75% survival rate	Nil
8h	Water sprinkling on roads to control airborne dust	Water tanker sprinkler on haul road to control dust is proposed	Regular spraying of water is done to control fugitive dust emission	One water taker was deployed along with fixed sprinklers
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around the mine is good as lessee had carried out afforestation and environmental protective measure as per the approved document.

#### 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 January 2020 A.R. Submitted up to 2018-2019	AR submitted on 28.06.2019	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager- shri. B Danimi Reddy, Mining Engineer-Shri. Abdul Khadir Geologist-Shri. Ravikanth	Mining engineer & geologist were present during the course of inspection.	Sri K. Ramanjaneya Reddy was appointed as Mines manager instead of Shri. Danimi Reddy & waspresent on the date of inspection
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under working-8 Ha	All the activities of mining & allied activities have not been covered under land use pattern.	Violations pointed out for non compliance

9d	Scrutiny of Annual return on afforestation	WML- 750 Nos @ 75% survival rate, OML-- 600 Nos @ 75% survival rate	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generated	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock: OB-Nil. Production: 153507 Tons CB- Nil	Appears to be correct	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production-Rs. 172.32/Ton, Ex-Mine Price & Sale value- Nil	Captive consumption	
9h	Scrutiny of Annual return on fixed assets	Rs.1082061/- including land	Appears to be correct	
9k	Scrutiny of Annual return on mining machineries	Crusher-01 no.(100TPH)	Information on mining machineries not submitted	Violations pointed out for non compliance

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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)	18/06/2020			
MCDR17	Rule 26(2)	18/06/2020			
MCDR17	Rule 45(7)(a)	18/06/2020			

**Date :**

**(ARUN KUMAR)**

Indian Bureau of Mines