

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

**Inspection under SDF for star rating of mines REPORT**

**Bangalore regional office**

**Mine file No :** KNT/GLB/LST-52/BNG

**Mine code :** 38KAR10023

- (i) Name of the Inspecting : **A101** ) **ARUN KUMAR**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sh. Kiran Naidu-Mines Manager  
Official with  
Designation
- (iv) Date of Inspection : 11/12/2020
- (v) Prev.inspection date : 20/11/2019

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KODLA LIMESTONE MINE ML 2**
- (b) **Registration NO.** : **IBM/960/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **GULBARGA**
- Village : **KODLA & BENKANHALLI**
- Taluka : **SEDAM**
- Post office : **SEDAM**
- Pin Code : **585222**
- FAX No. : **01462-228117**
- E-mail : **SHREEBWR@SHREECEMENTLTD.COI**
- Phone : **01462-228101**
- (f) **Police Station** :
- (g) **First opening date** : **05/11/2018**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **KODLA VILLAGE**  
**SEDAM TALUK**  
**GULBARGA DISTRICT, KARNATAKA**
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : SHREE CEMENT LTD.  
P B No. 33, Bangur Nagar  
Beawar P O BEAWAR  
RAJASTHAN  
Phone:  
FAX :

6. Date of approval of Mining : Modif.approved Mining Scheme 06/03/2020  
Plan/Scheme of Mining

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	The whole potential mineralized area (517.61 ha) has already been explored at G1 level
1b	Exploration over lease area for geological axis 1 or 2	G1	G1-517.61 Ha	Total of 122 core BH drilled at 200 Mts grid interval in the past
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	DMG Karnataka(Phase-1) & In house (Phase-2)	Expenditure incurred in the past- Rs.65,41,000/-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	The whole potential mineralized area has been explored
1e	Balance reserve as on 01/04/20	Nil	243 Million Tonnes (CaCO <sub>3</sub> -78.65% & SiO <sub>2</sub> -13.7%)	As per AR submitted for FY 2019-20
1f	General remarks of inspecting officers on geology, exploration etc			The entire potential mineralized area has been explored in two phases in the past. Total of 122 core BH drilled at 200 Mts grid interval.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Main Pit : E420-E1080, S310 - S930 , RWH Pit 1 : E30-E140, E30-E140, S440-S560 RWH Pit 2 : E240-E360 S140-S270 ,E565 - E900, S462 - S921	Main Pit : E565 - E910, S460 - S900 RWH Pit 1 : E30-E140, S440-S560 RWH Pit 2 : Nil	Clarification sought for not developing the Rain Water Harvesting pit 2

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate Bench proposed for Topsoil, overburden and Mineral.	Separate Bench maintained for Top soil, Overburden and Mineral.	OB-1 Bench, Limestoen-3 Benches
2c	Stripping ratio or ore to OB ratio	1:0.15	1:0.21	Nil
2d	Quantity of topsoil generation in m3	85520 Tons	85650 Tons	Used for plantation purpose
2e	Quantity of overburden generation in m3	288630 Tons	341599 Tons	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development was carried out as per the proposal .Clarification sought for not developing the Rain Water Harvesting pit 2.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Main pit & 2 rain water harvesting pit proposed	One Main pit & one rain water harvesting pit opened	Nil
3b	Quantity of ROM mineral production proposed	1.90 million tonnes	1.61 million tonnes	Less production of ROM due to low market demand.
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	Nil
3d	Quantity of mineral reject generation	No Proposal	Not Applicable	Complete ROM is used for Captive Consumption. No Reject material generated.
3e	Grade of mineral rejects generation and threshold value declared.	Limestone threshold value:CaO-34% (Min),MgO-5% (Max)	Not Applicable	Nil
3f	Quantity of sub grade mineral generation.	No Proposal	Not Applicable	Nil

3g	Grade of sub grade mineral generation	No proposal	Not Applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	All the blasted material is proposed to be sent to crushers for further sizing	All the blasted material is sent to crushers for further sizing	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	No beneficiation study carried out as mineral is directly used for cement manufacturing	Nil
3j	Provision of drilling and blasting in mineral benches	Provision made for deep hole drilling & blasting	Deep hole drilling & blasting carried out as per proposal	Drilling conducted by Two 6-inch Dia Drill Machine & Deep Hole Blasting done by Emulsion Explosive in Cartridge form. Shock Tubes (Nonel) used for detonation in hole and on surface for connection.
3k	Provision of mining machineries in mineral benches	Shovel dumper combination proposed	Mining is carried out by Shovel dumper combination	Machineries used on the day of inspection: Drills-01 Nos; Shovel-01 Nos; Dumpers-03 Nos; Water tankers-01nos;
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of Bench in OB- 1 meter Height of Bench in Limestone - 12 meter proposed	Height of Bench in OB- 1 meter max. Height of Bench in Limestone -9- 12 meter	Nil
3m	Total area covered under excavation/pits	70.3 ha at the end of plan period	14.0 ha at the end of reporting year	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.15	1:0.21	In tonnes

3o	Total area put in use under different heads at the end of year	Excavation:70.3 ha, Rain Water Harvesting : 6.5 ha, Top Soil Stock - 0.8 ha, Waste Dump- 8.1 ha, Infra- 2.0 ha,Railway-3.2 ha, Plantation : 4.05, 25 MW Captive Solar Power Plant:71.8 Ha, undisturbed area: 350.86 Ha at the end of plan period	Excavation:14.0 ha, Waste Dump- 3.9 ha, Infrastructures & roads -5.2 Ha, Mineral Storage- 1.8 ha, work done under PMCP:2.84 Ha at the end of reporting year	Nil
3p	Production of ROM mineral during the last five year period as applicable	2015-16: 3.54 2016-17: 3.83 2017-18: 0.96 2018-19: 3.84 2019-20: 1.90	2015-16: Nil 2016-17: Nil 2017-18: Nil 2018-19: 0.62 2019-20: 1.61	All unit in Million Tons. Actual production is within the proposed limits
3q	General remarks of inspecting officers on method of mining etc.			Opencast method of mining with shovel dumper combination & deep hole drilling & blasting was practiced. Actual production is within the proposed limits

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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)	Separate dumping for OB proposed	Separate dumping for OB carried out	Top soil was concurrently used for plantation

4b	Location of topsoil, OB and mineral reject dumps	Top Soil stock: E1200-E1300, S130-S180 , (ii) OB Dump no. 01 : E830-E1100, S30-S160, Dump no. 02 : E370-E620, S120-S240, Dump no. 03 : E1180-E1720, N20-S80	OB Dump no. 01 : E870-E1100, S30-S140, Dump no. 02 : E360-E610, S130-S230, Dump no. 03 : E1550-E1730, S20-50	Top soil was concurrently used for plantation
4c	Number of dumps within lease area and outside of lease area	With In Lease Area : 01 No of Top Soil dump & 3 Nos. of OB dumps Proposed Outside Lease Area : Nil	With In Lease: 3 Nos. of OB dumps are in active stage. Outside Lease Area : Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Temporary dumps proposed within UPL	Temporary dumps were made within UPL	Entire area is mineralized. Dumps are temporary in nature and will be handled once area for backfilling at the conceptual stage of mining is ready
4e	Number of active and alive dumps.	OB dump: 03 Nos.	OB dump: 03 Nos. is in active & alive stage.	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.			
4i	Length of Retaining wall or garland drain all along dumps	Dump no. 01:RW-300 Mts,GD-310 mts, Dump no. 02 : RW-230 Mts,GD-240 mts, Dump no. 03 : RW-450 Mts,GD-470 mts		
4j	Number of settling ponds	No Proposal	Nil	Nil

4k Specific comments of inspecting officer on waste dump management

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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	Mineral is not exhausted
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)	Concurrent use as well as stacking of Topsoil proposed	Top soil was concurrently used for plantation	Nil
5d	Total area fully reclaimed and rehabilitated	Not Proposed.	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling proposed in the plan period. Limestone persist at depth.

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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).	Annual report on PMCP to be submitted before 1st July every year Annual report on PMCP submitted	Submitted on 22.06.2020	Submitted on 22.06.2020
6b	Area available for rehabilitation (ha) .	No proposal	Nil	Nil

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6c	afforestation done (ha).	No proposal	Nil	Nil
6d	No. of saplings planted during the year	No proposal	Nil	Nil
6e	Cumulative no .of plants	No proposal	Nil	Nil
6f	Any other method of rehabilitation	No proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	No proposal	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	Nil	Nil
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 backfilled area	No proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	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	1650 saplings	WML: 7114 saplings Outside Lease Area : 20961 saplings	Plant Species are : Pongamia, Amaltas, Neem, Gulmohar, Ficus Religiosa, Peltophorm, Pongamia, Jacaranda, Alistonia, Conocorpus, Casia Semia, Rain Tree, Ashoka, Dubai Tree.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.66 Ha	2.84 Ha	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Proposed by plantation.	Rehabilitation is being done by plantation.	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of air & noise, half yearly monitoring of water quality proposed in the core & buffer zone	AAQ & noise monitoring doing on monthly basis & Water Quality monitoring doing on Quarterly basis	Environment Monitoring parameters were observed within limits. Test carried out by Vimta Labs Limited, Hyderabad
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP activities as proposed were being carried out. Monitoring of environmental parameters was done regularly.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Whole ROM generated to be Dispatched, no sorting proposed	Whole ROM generated is Dispatched, no sorting done.	captive consumption

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No Proposal	All the blasted material was transported to the crusher for further sizing	Crusher of 1200 TPH is installed for sizing
7c	Different grade of mineral sorted out at mines.	Direct ROM dispatched to crusher	Direct ROM dispatched to crusher having 1200 TPH capacity	Nil
7d	Any beneficiation process at mines	No Proposal	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Beneficiation of limestone is not required & entire ROM is being utilized in cement plant

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed	Topsoil generated is utilized for Plantation concurrently.	Nil
8b	Concurrent use or storage of topsoil	Storage & concurrent use is proposed.	Concurrently used for Plantation	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps proposed for top soil : 01 No & overburden : 03 No.	Overburden: 03 Nos. are being worked and maintained. No dumps of Waste Rock, rejects or fines.	Topsoil generated is utilized for Plantation
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	Nil

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed at the conceptual stage of mining	Not Applicable	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2500 saplings per hectare	WML-7114 Saplings, OML-20961 Saplings	Nil
8g	Survival rate	85 %	90 %	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on haul roads to control airborne dust	Continuous sprinkling of Water with the help of Water Tanker was done on regular basis.	Water Tanker having capacity of 18 KL. Special type of sprinkling nozzles for creating Mist of water.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around the mine was good as lessee has carried out afforestation & water sprinkling measures as per proposal

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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to November 2020 A.R. Submitted up to 2019 - 20	AR submitted on 30.06.2020	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Sh. Saddique Basha Geologist- Sh GNS Rangarao Manager- Kiran Mohan Naidu	Same officers were present during the inspection	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Excavation:14. 0 ha, Waste Dump- 3.9 ha, Infrastructure s & roads - 5.2 Ha, Mineral Storage- 1.8 ha, work done under PMCP:2.84 Ha at the end of reporting year	Appears to be correct
9d	Scrutiny of Annual return on afforestation	WML-7114 Saplings, OML- 20961 Saplings @90% survival rate	Appears to be correct
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	ROM Stock : Opening Stock & Closing Stock : Nil, Production : 1611294 Tons	Appears to be correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value & Ex Mine Price -Nil Production cost-Rs. 255.38/ton	Appears to be correct
9h	Scrutiny of Annual return on fixed assets	Industrial : Rs. 71225760 Plant & Machinery : Rs. 61682097 Total : Rs. 132907857	Appears to be correct

9k      Scrutiny of            Excavator-03    Appears to be correct  
Annual return on    Nos.  
mining                Backhoe : 01  
machineries         No  
                         Dumpers: 12  
                         Nos.  
                         Drill M/c - 02  
                         no.  
                         Dozer : 03 no.  
                         Water Tanker :  
                         01 no.,  
                         Rock Breaker:  
                         02 no.  
                         Front End  
                         Loader : 02  
                         nos,

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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)	03/02/2021			
MCDR17	Rule 26(1)	03/02/2021			
MCDR17	Rule 35(2)	03/02/2021			

**Date :**

**(ARUN KUMAR)**

Indian Bureau of Mines