

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

Mining Plan Modification 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 :
Official with
Designation
- (iv) Date of Inspection : 31/01/2020
- (v) Prev.inspection date :

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 :
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 proposals	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 bore holes 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.65,41,100/-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	The whole potential mineralised area has already been explored
1e	Balance reserve as on 01/04/20	Nil	222 Million Tonnes	As per AR submitted for FY 2018-19
1f	General remarks of inspecting officers on geology, exploration etc			The entire potential mineralized area has already been explored in two phases in the past. Total of 122 core bore holes drilled at 200 mts grid interval.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Location of development : In grid lines -S3 to S11 & E3 to E11	Actual location of development: In grid lines -S5 to S9 & E5 to E9	Actual location of development with in the proposed grids

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate Bench proposed for Topsoil, overburden and Mineral.	Separate Bench maintained for overburden and Mineral.	Violation issued for mixing of top soil with the OB vide letter no.KNT/GLB/Lst-52/Bng dt 02.12.2019. The same has been complied.
2c	Stripping ratio or ore to OB ratio	1:0.06	1:0.2	Nil
2d	Quantity of topsoil generation in m3	92800Tons	92800Tons	Used for plantation purpose
2e	Quantity of overburden generation in m3	92800 Tons	103896 Tons	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 grids, however violation was issued for mixing of top soil with overburden which has been complied.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1 pit proposed	Working in 1 Pit only.	Approx.dimension of the pit: 410m (L)X380m (W)X 15m (D)
3b	Quantity of ROM mineral production proposed	3.84 Million Tons	0.51 Million Tons	Violation issued vide letter no.KNT/GLB/Lst-52/Bng dt 02.12.2019. Complied by submitting the modified MP & approved dt. 06.03.2020
3c	Recovery of sailable/usable mineral from ROM production	92%	100%	Whole ROM is usable for Captive Consumption.

3d	Quantity of mineral reject generation	No Proposal	Nil	No generation of mineral reject. Complete ROM is usable for making cement.
3e	Grade of mineral rejects generation and threshold value declared.	Mineral Reject : No Proposal, Threshold Value Declared: 35 % of CaO.	No generation of mineral reject	ROM above threshold value is being used completely for making Cement.
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	150 mm drill dia used (2 Nos.), blasting carried out using slurry explosive in conjunction with NONEL.
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 & 4 dumpers deployed on the date of inspection.
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, Height of Bench in Limestone - 9 meter maintained	Nil

3m	Total area covered under excavation/pits	47.2 Ha at the end of plan period	12.5 ha covered under open cast working	Less area covered under excavation due to (i) No production in 2017-18 as consent to operate (CFO) received on 07.09.2018. (ii) Plant commissioned on dated 09.11.2018.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.06	1:0.2	Nil
3o	Total area put in use under different heads at the end of year	Area under mining- 47.2 ha, Top Soil Storage -3 ha, Waste Dump- 5.2 ha, Infra & roads - 1.5 ha, Others (Captive solar power plant) - 71.8 ha at the end of plan period	Covered under opencast working-12.5 Ha, Waste disposal- 2Ha, Infrastructure & Roads- 4.70Ha, others (Mineral stock)-1.8 Ha at the end of the reporting year	Nil
3p	Production of ROM mineral during the last five year period as applicable	2014-15: Nil 2015-16: 3.54 2016-17: 3.83 2017-18: 0.96 2018-19: 3.84 (in Million tonnes)	2014-15: Nil 2015-16: Nil 2016-17: Nil 2017-18: Nil 2018-19: 0.51 (in Million tonnes)	Production started in 2018-19 only.
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.

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

4b	Location of topsoil, OB and mineral reject dumps	(i) Top Soil stock: S2-S4 & E6-E8, (ii) OB dump: S6-S8 & E0-E1 and S1-S3 & E3-E7(screen waste dump)	(i) Concurrent use of Topsoil done hence, no stacking (ii) OB dumped :S1-S3 & E8-E11	Violation issued vide letter no.KNT/GLB/Lst-52/Bng dt 02.12.2019. Complied by submitting the modified MP & approved dt 06.03.2020
4c	Number of dumps within lease area and outside of lease area	With In Lease Area : 2 Nos. of dumps proposed,OML- Nil	With In Lease Area : 2 Nos. of dumps proposed,OML- 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 & is proposed to be rehandled for backfilling at the conceptual stage of mining
4e	Number of active and alive dumps.	2 Nos. of dumps were proposed to be active & alive	2 Nos.	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.	Retaining wall and garland drain all along dumps proposed	Retaining wall and garland drain not constructed	Violation issued vide letter no.KNT/GLB/Lst-52/Bng dt 02.12.2019. Complied by submitting the modified MP & approved dt 06.03.2020
4i	Length of Retaining wall or garland drain all along dumps	RW : 350 Mtr GD : 390 Mtr	Nil	Violation issued vide letter no.KNT/GLB/Lst-52/Bng dt 02.12.2019. Complied by submitting the modified MP & approved dt 06.03.2020
4j	Number of settling ponds	No proposal	Nil	Nil

4k	Specific comments of inspecting officer on waste dump management			Violation issued vide letter no.KNT/GLB/Lst-52/Bng dt 02.12.2019. Complied by submitting the modified MP & approved dt 06.03.2020 on construction of retaining wall & garland drains all along the OB dump
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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)	Concurrent use as well as stacking of Topsoil proposed	Concurrent use of Topsoil done for 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.

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).	Annual report on PMCP to be submitted before 1st July every year	Annual report on PMCP submitted for FY 2018-19 on 18.06.2019	Nil
6b	Area available for rehabilitation (ha) .	No proposal	Nil	Nil
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 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	7800 Saplings proposed	WML- 643 nos @ 90% survival rate, OML- 2894 nos @ 90% survival rate	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	3.12 Ha	More than 4 Ha covered	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By plantation	Plantation carried out	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	Air & noise monitoring is carried out on monthly basis and water quality monitoring on quarterly basis	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

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	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	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)	Separate removal and utilization of topsoil proposed	Topsoil generated is utilized 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)	Separate dump proposed for waste dump- one nos.	Separate dump maintained for waste dump- one nos.	Nil
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 not matured for back filling.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	Backfilling proposed in part of the ML area at the conceptual stage of mining
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline information on existence of plantation available	WML- 643 nos @ 90% survival rate, OML- 2894 nos @ 90% survival rate	Nil
8g	Survival rate	85 %	90 %	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	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			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 upto Dec- 20 A.R. submitted upto 18 - 19	AR submitted on 28.06.2019	Nil
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 course of inspection	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under opencast working-12.5 Ha,Waste disposal-2Ha,Infrastructure & Roads-4.70Ha,others(Mineral stock)-1.8 Ha	Appears to be correct	Nil
9d	Scrutiny of Annual return on afforestation	WML- 643 nos @ 90% survival rate, OML-2894 nos @ 90% survival rate	Appears to be correct	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generated	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: OS- Nil,Production -515284 Tons,CS-Nil	Appears to be correct	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value & Ex Mine Price -Nil Production cost-Rs.182.31/Ton	Captive consumption	Nil
9h	Scrutiny of Annual return on fixed assets	Nil	7.2 crores of finance lease	Nil
9k	Scrutiny of Annual return on mining machineries	Excavator-4 Nos, Dumpers -12 Nos, Drills & Wheel loader -2 Nos each ,Dozer-3Nos,Crusher-1 No & WT_01 No.	Appears to be correct	Nil

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

Date :

(ARUN KUMAR)

Indian Bureau of Mines