

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

Review and updation of Mining Plan REPORT

Bangalore regional office

Mine file No : KNT/TMK/LST/1/BNG

Mine code : 38KAR19006

- (i) Name of the Inspecting : **257**) **Prashant S Hegde**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Sri. Satya Sai Baba, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 11/10/2019
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **YEREKATE (M.L.1654)**
- (b) **Registration NO.** : **IBM/398/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **TUMKUR**
- Village : **CHIKKARAMPURA**
- Taluka : **GUBBI/C.N.HALLI**
- Post office : **AMMASANDRA**
- Pin Code : **572211**
- FAX No. : **08139-278375**
- E-mail : **sk.tiwari@heidelbergcement**
- Phone : **08139-278656**
- (f) **Police Station** : **CHIKKANAYAKANAHALLI**
- (g) **First opening date** : **01/06/1966**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **Yerekatte Limestone Mine of**
correspondance : **M/s HeidelbergCement India Limited**
: **Po-Ammasandra, Tq-Turuvekere, Dist-Tumkur-572211**
3. (a) **Lease Number** : **KAR0116**
- (b) **Lease area** : **305.54**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **23/02/2020**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : HEIDELBERG CEMENT INDIA LIMITED
 9 th Floor, Infinity Tower-
 C DLF Cyber city, Phase-II
 Gurugram GURGAON HARYANA
 Phone:0124-4503700
 FAX :0124-4147698

Owner : Sushil Kumar Tiwari- Director
 M/s HCIL, 9th Floor,
 Infinity Tower-C, DLF
 Cyber City, Phase-II
 Gurugram GURGAON HARYANA
 Phone: 0124-4147698
 FAX : 0124-4503700

Agent : R N RAI
 Po-Ammasandra Tq-Turuvekere
 TUMKUR KARNATAKA
 Phone: 08139-278656
 FAX : 08139-278375

Mining Engineer

Name : MR.NARAYAN KHANNUR,Full Time
 Qualification : B.E IN MINING
 Appointment/ : 13/08/2012
 Termination date

Geologist

Name : Balbir Singh Rawat,Full Time
 Qualification : M.Tech. Applied Geology
 Appointment/ : 26/09/2019
 Termination date

Manager

Name : P.SATYA SIABABA
 Qualification : FCC DIP.IN MIN.ENG.
 Appointment/ : 01/01/2015
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	13/09/1991
Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	13/09/1991
	:	Mining Scheme rule 12 MCDR1988	23/09/1996
	:	Mining Scheme rule 12 MCDR1988	24/09/1996
	:	Renewal under rule 22 MCR1960	17/01/2001
	:	Renewal under rule 24 MCR1960	09/06/2006
	:	Modif.of approved Mining Plan	15/01/2007
	:	Modif.of approved Mining Plan	01/02/2008
	:	Mining Scheme rule 12 MCDR1988	10/02/2011
	:	Mining Scheme rule 12 MCDR1988	27/03/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2 nos of BH with 75 m each	NIL	Non-working mine
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	To establish depth continuity.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NIL	Non-working mine.
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Entire potentially mineralized area of 37.61 Ha is proved under G1 category. Depth continuity to be established.
1e	Balance reserve as on 01/04/20	-----	21.17 million tonnes as on 1/4/2019 (Cement grade limestone of CaO +35 %)	Based on last approved SOM dated 27/03/2015.
1f	General remarks of inspecting officers on geology, exploration etc	-----	-----	Entire potentially mineralized area of 37.61 Ha is proved under G1 category. Lessee had submitted draft RMP on 1/10/2019 which is under process. Additional BHs proposals sought to establishment of depth continuity of ore body.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Central part w.r.t. lease area i.e. SW and NE part of pit no-2 (SW part 870 to 920 RL and NE part 890 TO 905 RL) (N-1800 to 1000 and W 1600 to 1200)	NIL	Non-working mine.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil; and separate benches for OB & minerals proposed.	NIL	Non-working mine.
2c	Stripping ratio or ore to OB ratio	1:1.3	NIL	Cum. data.
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
2e	Quantity of overburden generation in m3	143,232	NIL	Non-working mine.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-----	-----	Mine was under temp. discontinuance w.e.f. 6/11/2017 due to lack of demand.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE PIT (Pit no-2)	NIL	Non-working mine.
3b	Quantity of ROM mineral production proposed	469,312 tonnes	NIL	Non-working mine.
3c	Recovery of sailable/usable mineral from ROM production	95 %	NIL	Non-working.
3d	Quantity of mineral reject generation	37,545 tonnes	NIL	NIL

3e	Grade of mineral rejects generation and threshold value declared.	Low grade limestone with MgO 8 to 10% proposed to be utilised with blending.	NIL	Non-working.
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NA	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Non-working.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposals.	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed by DTH holes using ANFO & millisecond delay detonator.	NIL	Non-working.
3k	Provision of mining machineries in mineral benches	Mechanised method using excavators and tippers.	NIL	Non-working.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 10 m and width of 10 m	Same maintained as per proposals.	NIL
3m	Total area covered under excavation/pits	48.79 Ha	40.81 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1: 1.3	NIL	Non-working.
3o	Total area put in use under different heads at the end of year	Pit: 48.79 Ha Dump: 26.5 Ha Infra.: 3.5 Ha Road: 1.5 Ha	Pit: 40.81 Ha Dump: 20.40Ha Infra.: 3.5 Ha Road: 1.5 Ha	NIL

3p	Production of ROM mineral during the last five year period as applicable	2015-16: 450,900 2016-17: 453,600 2017-18: 462,787 2018-19: 469,312 2019-20: 463,750	2015-16: 226,580 2016-17: 86,000 2017-18: NIL 2018-19: NIL 2019-20: NIL (Upto Aug-2019 MR)	Unit: in tonnes
3q	General remarks of inspecting officers on method of mining etc.	-----	-----	Open cast mechanised mining method was proposed/existing. Mine was under temp. discontinuance w.e.f 6/11/2017 due to lack of demand.

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. No top soil proposals.	NIL	Non-working mine.
4b	Location of topsoil, OB and mineral reject dumps	OB wastes dumping proposed at Dump No-2 (W-1400-1200 & N1800-N-1600)	NIL	Non-working Mine.
4c	Number of dumps within lease area and outside of lease area	5 nos within ML.	5 nos within ML.	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL.	Outside UPL.	NIL
4e	Number of active and alive dumps.	2 nos (Dump Nos 1 and 2).	2 nos (Dump Nos 1 and 2).	NIL
4f	Number of dead dumps.	3 nos	3 nos	NIL
4g	Number of dumps established.	3 nos	3 nos	By afforestation.

4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Carried out	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	About 340 m of Retaining wall and garland drain were carried out so far.
4j	Number of settling ponds	NIL	NIL	One nos of siltation pond constructed so far.
4k	Specific comments of inspecting officer on waste dump management	-----	-----	Mine was under temp. discontinuance w.e.f. 6/11/2017 due to lack of demand. Waste dump management is being carried out as per the approved proposals.

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 proposals	NIL	Almost Vertical dipping Ore body and pit is not matured for back filling as ore not exhausted so far.
5b	Area under backfilling of mined out area	NIL	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL

5e	General remarks of inspecting officers on backfilling and reclamation etc.	-----	-----	Almost Vertical dipping Ore body and pit is not matured for back filling as ore not exhausted so far.
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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).	Within 1st July of every year.	Submitted.	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	0.5 Ha	0.5 Ha	NIL
6d	No. of saplings planted during the year	500 nos	500 nos	NIL
6e	Cumulative no .of plants	25000 nos	57,400 nos	Within ML as reported.
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	NA	2 lakhs	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	Pit was not matured for back-filling as ore not exhausted.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	NIL

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NIL	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Not carried out as non-working mine	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-----	-----	Mine was under temp. discontinuance w.e.f. 6/11/2017 due to lack of demand. Requisite PMCP implementation is being carried out as mine was non-working.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM proposed to be despatched to their captive Plant located at Ammasandra about 16 km from mine by rope-way system.	NIL	Non-working.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	ROM feed into primary & secondary crushing system with output of - 20 mm (located within ML).	NIL	Non-working.
7c	Different grade of mineral sorted out at mines.	Low grade limestone with MgO 8 to 10 % proposed to be blended with high grade as per requirement.	NIL	Non-working.
7d	Any beneficiation process at mines	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-----	-----	There is no mineral conservation issue in this mine as mine was non-working.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil generation.	NIL	NIL
8b	Concurrent use or storage of topsoil	NIL	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of OB wastes proposed.	NIL	Non-working mine.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposals.	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 nos saplings during year 2018-19	Plantation of 500 nos saplings were carried out.	Cum. plantation of 57,400 saplings so far.
8g	Survival rate	NA	70 %	NIL
8h	Water sprinkling on roads to control airborne dust	Proposed	Not carried out as mine was not working.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-----	-----	Aesthetic beady in and around mines area is good as lessee had carried out afforestation.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	----- -	On-line submission of MRs and ARs are regular.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	MM: Sri. P. Satya Sai Baba ME: Sri. Narayan Khannur Geologist: None	MM: Sri. P. Satya Sai Baba ME: Sri. Narayan Khannur Geologist: Sri. Balbir Singh Rawat appointed on 26/9/2019.	NIL

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit/O/c working: 55 Ha Dumps: 35.09 Ha	Pit/O/c working: 40.81 Ha Dumps: 20.40 Ha	V/L issued.
9d	Scrutiny of Annual return on afforestation	500 nos of saplings (Within ML) NIL (outside ML)	Actual also same.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Actual also same	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: NIL Cement grade ore: 8297 tonnes	Actual also same.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex.mine price and production cost are not mentioned.	NA as Non-working mine.	NIL
9h	Scrutiny of Annual return on fixed assets	Rs 4,00,99,645	Actual appear to be correct.	NIL
9k	Scrutiny of Annual return on mining machineries	Shovel (4 Cum) one nos	Same. As such Non-working mine.	NIL

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
Rule 45(7)(i)	31/10/2019				

Date :

(Prashant S Hegde)

Indian Bureau of Mines