

**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-47/BNG

Mine code : 38KAR10013

- (i) Name of the Inspecting : **M003**) **G C MEENA**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Alok Dwivedi, AGM (Geology) & G. Narasimhan, Mines Ma
Official with
Designation
- (iv) Date of Inspection : 19/11/2019
- (v) Prev.inspection date : 12/10/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHITTAPUR**
- (b) **Registration NO.** : **IBM/378/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **GULBARGA**
- Village : **CHITTAPUR**
- Taluka : **CHITTAPUR**
- Post office :
- Pin Code :
- FAX No. : **022-66306510**
- E-mail : **amitkumar.roy@lafarge.com**
- Phone : **022-67692595**
- (f) **Police Station** : **WADI**
- (g) **First opening date** : **03/10/2016**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **LAFARGE INDIA LTD**
correspondance **eQUINOX BUSINESS PARK, tOWER3, EAST WING,4TH FLO**
OFF BANDRA KURLA COMPLEX LBS MARG MUMBAI - 40007
3. (a) **Lease Number** : **KAR1615**
- (b) **Lease area** : **796.43**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **17/11/2028**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : LAFARGE INDIA PRIVATE LTD.
 APM SQUARE, 2ND FLOOR,OPP.
 IIPM P-6-3-
 252/1/7/1/1,ADJ.TO.TAJ
 DECCAN ERAMANZIL
 COLONY,BANJARA HILLS
 HYDERABAD TELANGANA
 Phone:040-23320016
 FAX :040-23320016

Geologist

Name : ALOK DWIVEDI,Full Time
 Qualification : M.TECH (APPLIED GEOLOGY)
 Appointment/ :
 Termination date

Manager

Name : G NARASIMHAM
 Qualification : DIPLOMA IN MINING ENGINEERING
 Appointment/ : 18/07/2016
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	23/03/2000
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	24/10/2000
	:	MP review under 17(1) MCR 2016	19/04/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	162.4 Ha, 24 holes and 480 Mtrs	15 holes 757 Mtrs 145 Ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	--	GEM Consultants, Bilaspur, CG. 13.63 Lacs	Rs
1d	Balance area to be explored to bring Geological axis in 1 or 2	634 Ha	651 Ha	
1e	Balance reserve as on 01/04/20	221.20 Million Tonne	221.20 Million Tonne	
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Within lease as per approved MP.	Complied	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	TS/OB- 1 bench Mineral - 1 bench	TS/OB- 1 bench Mineral - 1 bench	
2c	Stripping ratio or ore to OB ratio	1:0.47	1:0.18	
2d	Quantity of topsoil generation in m3	1650	3159	
2e	Quantity of overburden generation in m3	3100	1791	

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	22000 MT	22002 MT	Trip Based Calculation
3c	Recovery of sailable/usable mineral from ROM production	90%	94%	
3d	Quantity of mineral reject generation	NIL	1358 MT	
3e	Grade of mineral rejects generation and threshold value declared.	NIL	--	
3f	Quantity of sub grade mineral generation.	NIL	--	
3g	Grade of sub grade mineral generation	NIL	--	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	
3j	Provision of drilling and blasting in mineral benches	YES	Done	

3k	Provision of mining machineries in mineral benches	YES	Used	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	Compiled as per standards	
3m	Total area covered under excavation/pits	1.0 Ha	0.30 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.47	1:0.18	
3o	Total area put in use under different heads at the end of year	8.00 Ha	7.751 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - Nil 2017-18- Nil 2018-19- 22000 MT	2016-17 - Nil 2017-18 - 3600 MT 2018-19 - 22002 MT	Date of opening of Mines 3rd October 2016
3q	General remarks of inspecting officers on method of mining etc.			

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	As per MP	COMPLIED	
4b	Location of topsoil, OB and mineral reject dumps	As per MP	Complied	
4c	Number of dumps within lease area and outside of lease area	TS- 01 No. OB- 01 No.	TS- 01 No. OB- 01 No.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	As per MP	COMPLIED	

4e	Number of active and alive dumps.	2	2
4f	Number of dead dumps.	0	0
4g	Number of dumps established.	0	0
4h	Whether Retaining wall or garland drain all along dumps are there.	As per MP	Dump are in initial stage under progress
4i	Length of Retaining wall or garland drain all along dumps	NA	NA
4j	Number of settling ponds	NA	NA
4k	Specific comments of inspecting officer on waste dump management		

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.	NA	NA	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	As per MP	NA	
5d	Total area fully reclaimed and rehabilitated	NA	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			

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).	NA	NA	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	NA	NA	
6d	No. of saplings planted during the year	NA	NA	
6e	Cumulative no .of plants	NA	NA	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NA	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA
6p	Compliance of environmental monitoring (core zone and buffer zone)	As Per MP	COMPLIED
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	

7d	Any beneficiation process at mines	NA	NA
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	As per MP	COMPLIED	
8b	Concurrent use or storage of topsoil	As per MP	COMPLIED	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	As per MP	COMPLIED	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	As per MP 700Nos	Complied (done 710 Nos planted)	
8g	Survival rate	90%	90%	

8h	Water sprinkling on roads to control airborne dust	As per MP	Complied by using mobile water sprinkler.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto Oct'2019 A.R. submitted upto 2018-19	M.R. Submitted upto Oct'2019 A.R. submitted upto 2018-19	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Geologist(ALOK DWIBEDI) and Manager(G NARASIMHAM) appointed.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	OC WORKING - 3.44 HA Used for waste disposal - 0.546 ha Infrastructure - 1.75 ha Other - 1.835 ha		Appears to be correct
9d	Scrutiny of Annual return on afforestation	WML - 710 nos @ 90 % OML - 115 nos @ 90%		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	1358 tonnes		The lessee will be blended with high grade ROM after comissioned of cement plant.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	25602 tonnes		

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price -428 Rs per tonne Cost of production 833.67 Rs per tonne.	
9h	Scrutiny of Annual return on fixed assets	Value of fixxed assets Rs 250942500/-	
9k	Scrutiny of Annual return on mining machineries	Bach hoe - 1 Tipper - 1 Water tanker - 1	Same as stated in AR.

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

Date :

(G C MEENA)

Indian Bureau of Mines