

**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-47/BNG

Mine code : 38KAR10013

- (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 : 08/03/2018
- (v) Prev.inspection date :

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

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	NIL	G-2:610.22 Ha G-3: 186.18 Ha	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	Drilled 60 Bore holes covering total meterage of 1956.8 m previously	M/s GIEM (India) Consortium, Calcutta
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Exploration proposed in future to bring G-2 into G-1 category
1e	Balance reserve as on 01/04/20	-	418.5 million tonne	Reserves & resources as per approved MP dated 24/10/2000
1f	General remarks of inspecting officers on geology, exploration etc			Previously 60 bore holes were drilled at 400 m X400 m grid to establish the reserve & resources. Future exploration proposal incorporated at 200m X200m grid to bring G-2 into G-1 category.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	6800 N ,800 E	Opened as per proposal in MP	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate Benches proposed for TS & Mineral proposed	Only one Top soil Bench opened.	Date of Opening of Mine 3rd October 2016
2c	Stripping ratio or ore to OB ratio	NA	No mineral bench opened so far	-
2d	Quantity of topsoil generation in m3	15000 Cu. Mtr	5000 Cu. Mtr	-

2e	Quantity of overburden generation in m3	Nil	Nil	2702 tons of boulders embedded with topsoil stacked
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine was opened on 3rd Oct.2016 due to unavailability of surface rights in the name of the company. Only one bench of top soil scraped & no mineral bench is opened so far.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	-
3b	Quantity of ROM mineral production proposed	2 Lakhs ton	Nil	Mineral bench not yet opened
3c	Recovery of sailable/usable mineral from ROM production	100%	Nil	Only removal of top soil & waste rock
3d	Quantity of mineral reject generation	NA	Nil	-
3e	Grade of mineral rejects generation and threshold value declared.	NA	Nil	-
3f	Quantity of sub grade mineral generation.	NA	nil	-
3g	Grade of sub grade mineral generation	NA	Nil	-
3h	Manual / Mechanised method adopted for segregating from ROM	NA	nil	-

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal	No study carried out	-
3j	Provision of drilling and blasting in mineral benches	Yes, Provision made for drilling & blasting in mineral benches	Nil	No mineral bench is opened. Only removal of top soil was carried out.
3k	Provision of mining machineries in mineral benches	Shovel dumper combination	Excavator tipper combination for removal of top soil & waste rock	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Top soil-0.2 to 3m, Mineral Bench-8 m	Top soil Bench: 0.75 mts	-
3m	Total area covered under excavation/pits	2.00 Ha	1 Ha	Only TS bench opened Avg. Height 0.75 mtrs.
3n	Ore to OB ratio for the pit/mine during the year.	NA	Nil	Ore Bench not opened
3o	Total area put in use under different heads at the end of year	NA	O/c working:1 Ha, Waste disposal-0.2 Ha, Infrastructure-0.2 Ha, Plantation-0.4 Ha	As per AR2016-17
3p	Production of ROM mineral during the last five year period as applicable	Nil	Nil	Ore Bench not opened
3q	General remarks of inspecting officers on method of mining etc.			Mine was opened on 3rd Oct.2016. No mineral bench is opened. Only removal of top soil was carried out.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate stacking of topsoil & waste rock	Separate dumping of top soil & waste rock carried out	-
4b	Location of topsoil, OB and mineral reject dumps	6900-7100 N towards the western side of the lease boundary	Actual dumping as proposed	-
4c	Number of dumps within lease area and outside of lease area	WML-2(one top soil& one waste rock),OML-Nil	WML-2 ,OML-Nil	2702 tons of waste rock stacked separately
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	Dumping along the lease boundary towards the western side	Entire ML area is mineralized.
4e	Number of active and alive dumps.	Top Soil - 01 No,Waste rock-01no.	Top Soil - 01 No,Waste rock-01no.	-
4f	Number of dead dumps.	nil	nil	-
4g	Number of dumps established.	nil	nil	-
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil	Dumps are in initial stage & height of the dump found to be below 2 Mtrs.
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil	-
4j	Number of settling ponds	No proposal	nil	-
4k	Specific comments of inspecting officer on waste dump management			Separate dumping of top soil & waste rock carried out. Height of the dump found to be below 2 m as the dumps are in initial stage

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal	Nil	Backfilling is not applicable as the Mine has been opened recently on 3/10/16.
5b	Area under backfilling of mined out area	No proposal	nil	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	nil	-
5d	Total area fully reclaimed and rehabilitated	No proposal	nil	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Presently backfilling is not applicable as the Mine has been opened recently.

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).	To be submitted before 1st July every year	AR on PMCP submitted on 25th July 2017	-
6b	Area available for rehabilitation (ha) .	Nil	nil	-
6c	afforestation done (ha).	No proposal	0.18 Ha	-
6d	No. of saplings planted during the year	5000 Nos s	125 No	-
6e	Cumulative no .of plants	5000 Nos	125 No	-
6f	Any other method of rehabilitation	Nil	nil	-
6g	Cost incurred on watch and care during the year	NA	nil	-

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	nil	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	nil	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	nil	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	nil	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Na	nil	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Na	nil	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	nil	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	nil	-

6p	Compliance of environmental monitoring (core zone and buffer zone)	Season wise environmental monitoring of ambient air quality, water quality, soil sample analysis& noise level	Season wise environmental monitoring of ambient air quality, water quality, soil sample analysis& noise level are being carried out regularly.	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Mine was opened on 03/10/2016. 125 nos of saplings was planted on 0.18 Ha area.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	nil	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No such proposals	Nil	-
7c	Different grade of mineral sorted out at mines.	NA	nil	-
7d	Any beneficiation process at mines	No mineral beneficiation proposals	Nil	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No mineral bench is opened. Only removal of top soil was carried out.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	15000 Cu. Mtr	5000 Cu. Mtr	Mine opened recently
8b	Concurrent use or storage of topsoil	No proposal	Nil	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump proposed for top soil & waste rock	Two active dumps maintained for Top Soil & waste Rock separately	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	nil	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	nil	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	WML-5000 No of plantation	125 nos of saplings was planted on 0.18 Ha area.	-
8g	Survival rate	NA	95%	-
8h	Water sprinkling on roads to control airborne dust	Proposed	One water sprinkler deployed for dust suppression on roads etc.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The mine was opened recently and top soil generated is stacked along the boundary & plantation done.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns		M.R. Submitted upto Feb 2018; A.R. submitted upto 2016-17	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Manager: G Narasimhan, Geologist: Alok Dwivedi ME- Nil	Same as given in AR
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		O/c working:1 Ha, Waste disposal-0.2 Ha, Infrastructure-0.2 Ha, Plantation-0.4 Ha	Appears to be correct
9d	Scrutiny of Annual return on afforestation		WML-125 Nos @95% survival	Appears to be correct
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		2702 tons	Waste rock stacked saperately, will be blended with high grade once the cement plant is commissioned
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	No production of limestone. Only development out work was carried	
9h	Scrutiny of Annual return on fixed assets	Rs.250942500/-	Appears to be correct including value of land aquired	
9k	Scrutiny of Annual return on mining machineries	Back hoe-01 no, Tipper-1 no, water tanker-1 no	Same as given in AR	

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