INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

Review and updation of Mining Plan REPORT

Bangalore regional office

	Mine :	file No : KNT/GLB/LSI	7/50/	BNG Mine code : 38KAR10016
	(i)	Name of the Inspectin Officer and ID No.	g :	278) KRISHNENDU CHATTERJEE
	(ii)	Designation	:	Junior Mining Geologist
	(iii)	Accompaning mine Official with Designation	:	Shri V. Balasubramani-General Manager, Dr. Gulhane-QP
	(iv)	Date of Inspection	:	11/10/2018
	(v)	Prev.inspection date	:	
		P	ART-	I : GENERAL INFORMATION
1.	(a)	Mine Name		KALLUR LIMESTONE MINE ML
	(b)	Registration NO.	:	IBM/170/2011
	(c) (d) (e)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone	:::::::::::::::::::::::::::::::::::::::	585305 08475-295608, 9480827511 subramani.v@chettinadcement 044-42988652 (0) 044-42988
		Police Station First opening date		Miryan 07/03/2012
	(g) (h)	Weekly day of rest		SUN
2.	Addre	ess for espondance		KALLUR VILLAGE, GARAGAPALLI POST, CHANDAPUR, CHINCHOLI TALUK GULBARGA - 585305
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	:	KAR1677 423.11 30 24/09/2040
4.	Mine	ral worked	:	LIMESTONE Main

5.	Name and Address of th	ne			
	Lessee	: CHETTINAD	CEMENT CORPORATION	LIMITED	
		POST CHAN TALUK GUL	LLAGE, GARAGAPALLI DAPUR, CHINCHOLI BARGA - 585305 KARNATAKA		
		FAX :			
	Owner	: L.MUTHUK	RISHNAN		
		Seethai H V 603, An	amilnadu CHENGAI-		
	Agent	IV & V F Salai, Ch	na Kumar hai Hall Building, loors, 603, Anna ennai,Tamilnadu NNA TAMIL NADU		
	Mining Engineer				
	Name	: V.Rami Re	ddy,Full Time		
	Qualification	: B.TECH(MI	NING) SECOND CLASS N	MINES MANAGE	
	Appointment/ Termination date		3		
	Geologist				
	Name	K.V.SUBBA	REDDY,Full Time		
	Qualification	: M.Sc.(GEO	LOGY)		
	Appointment/ Termination date		3		
	Manager				
		: V.BALASUB	RAMANI		
	Qualification		G.& 1st CLASS COMPE	TENCY CERTIF	
	Appointment/ Termination date	: 07/03/201			
6.	Date of approval of M: Plan/Scheme of Mining	ining :	Mining Scheme rule MP modif under 17(15/04/2014 02/08/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	15 boreholes proposed	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1 & G2	Gl covered 225.6 Ha.	So far 99 nos. of boreholes have been drilled in the ML area with cumulative meterage of 4179 m.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified.	No exploration during 2017-18.	
ld	Balance area to be explored to bring Geological axis in 1 or 2	G1 & G2	G2 & G3.	
1e	Balance reserve as on 01/04/20	No proposal	Total reserve 176 million tonnes as on 01.04.2018.	
lf	General remarks of inspecting officers on geology, exploration etc		Exploration by 15 nos. of core boreholes was proposed during F.Y. 2017-18, against which no exploration was carried out during said period. Violation of Rule 11(1) was issued to the lessee dated 24.10.2018.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	block A, N	Block A; N 1922580 to N 1923800 and E 761310 to E 761810	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)		Seperate benches for OB and mineral maintained.	
2c	Stripping ratio or ore to OB ratio	1: 0.09	1: 0.06	

2d	Quantity of topsoil generation in m3	59965 m3	85480 m3	
2e	Quantity of overburden generation in m3	379400 m3	Nil	Entire OB generated was top soil during 2017- 18.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		OB generated in mining pit development area during 2017-18 was entirely top soil.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit in block A (Pit 1)	Single pit in block A (Pit 1) measuring apprx. 800m(L) X 600m (W) X 45m (D)	Other small pit (Pit 2) located south of the block A measuring apprx. 450m (L) x 100m(W) x 15m (D).
3b	Quantity of ROM mineral production proposed	10 million tonnes of Limestone	3.08 million tonnes	
3с	Recovery of sailable/usable mineral from ROM production	100% recovery for captive use.	100% recovery of ROM for captive use.	
3d	Quantity of mineral reject generation	No proposal	No mineral reject generation during 2017- 18.	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not Applicable as no mineral reject generation.	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	Not Applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed.	Mechanised method adopted.	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No beneficiation study carried out during 2017- 18.	
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed.	Regular drilling and blasting carried out for production.	
3k	Provision of mining machineries in mineral benches	Proposed by hydraulic shovel and dumper combination.	No change.	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height 9m, width 10m proposed.	Bench height 8 to 9m and width 10 to 15m maintained.	
3m	Total area covered under excavation/pits	85.14 Ha. area proposed at the end of F.Y. 2018-19.	52.5 Ha. area covered by mining pits.	
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.09	1: 0.06	
30	Total area put in use under different heads at the end of year	130.8 Ha. at the end of F.Y. 2018-19.	94.5 Ha. at the end of F.Y. 2017-18.	
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 7000,000 2014-15: 3000,000 2015-16: 5000,000 2016-17: 7000,000 2017-18: 10000,000 (in tonnes)	2013-14: 1302,735 2014-15: 1566,320 2015-16: 1828,093 2016-17: 1947,042 2017-18: 3080,702 (in tonnes)	Production deviation was - 69.2% during 2017- 18.
3q	General remarks of inspecting officers on method of mining etc.		Violation of rule 11(1) was issued to the lessee dated 24.10.2018 for production deviation of -69.2% during F.Y. 2017- 18.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)		Seperate dumping of top soil was carried out.	
4b	Location of topsoil, OB and mineral reject dumps	Top soil stacking porposal was north and eastern side of the Block - A, along the safety barrier.	Top soil was stacked along the safety barrier of block A and concurrently using for plantation, no waste dump located within ML.	
4c	Number of dumps within lease area and outside of lease area	Proposed for erection of bund with waste material along the road/ nallah and afforested, no separate waste dumping was proposed.		OB removed from the ML was mainly consists of top soil which was used for erection of bund along the lease boundary in block-A.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Not applicable as no waste dump located within ML.	
4e	Number of active and alive dumps.	No proposal	Nil	
4f	Number of dead dumps.	No proposal	Nil	
4g	Number of dumps established.	No proposal	Top soil bunds were established by concurrent afforestation.	
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed along	Top soil retaining bund constructed along western side of Block A.	
4i	Length of Retaining wall or garland drain all along dumps	500 m of retaining wall	580m of top soil retaining wall constrcuted.	
4j	Number of settling ponds	One settling pond proposed	Not constructed.	

Specific comments of inspecting officer on waste dump management

4k

Constructions of two nos. of check dam and one silt settling tank were proposed during 2017-18 but not constructed by the lessee; violation of rule 11(1) issued dated 24.10.2018.

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 as mined out pits were not matured for back-filling.	Nil	
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)	Top soil utilised for plantation purpose.	Top soil utilised for plantation purpose.	
5d	Total area fully reclaimed and rehabilitated	No proposal.	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mined out pit is not matured for back-filling and water reservoir.	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual	work		Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	The Annual Report on PMCP to be submitted within the stipulated time for FY 2017-18 within 1st July 2018		Report for 2 mitted.	2017-	

бb	Area available	No proposal	Nil
	for rehabilitation (ha) .		
60	afforestation done (ha).	4.6 Ha. area proposed	4.6 ha. area afforested along safety barrier zone and near mine office premises.
6d	No. of saplings planted during the year	4000 nos. proposed within ML.	4000 nos. within ML and 5000 nos. outside ML planted.
бе	Cumulative no .of plants	Not specified.	Approx. 30,000 nos. within ML.
6f	Any other method of rehabilitation	No proposal	Nil
бg	Cost incurred on watch and care during the year	Rs. 4 lakhs during 2017-18	Rs. 4,13 lakhs
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal for backfilling.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil

бm	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	No waste land present within ML area.
бn	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil
бр	Compliance of environmental monitoring (core zone and buffer zone)	Monthly environment monitoring proposed.	Environmental monitoring were carried out on monthly basis and parameters were within the permissible limit.
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Mined out pit is not matured for back-filling and for making water reservoir. About cumulative of 30,000 nos of saplings were planted within the ML area.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM proposed to be crushed at crusher of 1500TPH capacity located outside ML.	No change.	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanised Crushing	Mechanised Crushing	
7c	Different grade of mineral sorted out at mines.	and high grade limestone	Low grade siliceous limestone and high grade limestone blended as per the cross belt analyser report.	

7d Any No such Nil beneficiation proposals process at mines . 7e General remarks No deviation in respect of inspecting of mineral conservation officer on was observed during the Mineral inspection dated 11.10.2018 conservation and beneficiation issues

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	removal and	Separate removal and utilization/stacking of topsoil for plantation purpose.	
8b	Concurrent use or storage of topsoil	Proposed	Concurrently use for plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil as no overburden waste except top-soil waste.	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	Not applicable as ore not exhausted in mining pits.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal	Nil as mined out pits are not matured for back-filling and water reservoir.	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	is non-forest. There is proposal of planation of	during year 2017-18. About 30,000 nos of saplings were planted so
8g	Survival rate	80%	70 to 80% within ML.
8h	Water sprinkling on roads to control airborne dust	Proposed	The regular dust suppression by sprinkling of water is being made in the mine.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		The aesthetic beauty in and around mine is good as lessee had carried out afforestation and other environmental protective measures as per approved Modified RMP.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. Submitted up to Oct. 2018 A.R. submitted upto FY 2017-18	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager: V Balasubramani Mining Engineer: V. Rami Reddy Geologist: K.V. SubbaReddy	Mines Manager: V Balasubramani Mining Engineer: V. Rami Reddy Geologist: K.V. SubbaReddy	No change.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	49.4 Ha. Plantation and Top soil	Actual also same at that time	
9d	Scrutiny of Annual return on afforestation	4000 nos. within ML.	Actual also same.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generation during 2017- 18.
9f	Scrutiny of Annual return on ROM stock and/or graded ore		4 nos. of ROM stocks located near mine office, south of the ML area (Block-A).
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	production: Rs 170.20 per	Appear to be correct.
9h	Scrutiny of Annual return on fixed assets	Rs. 291,1405401/-	Appeared to be correct including plant and existing infrastructure.
9k	Scrutiny of Annual return on mining machineries	Excavator (2.1 Cum): 5 nos. Dumpers (35 tonnes): 15 nos. Tipper: 3 nos. Dozer: 1 no. Water Tanker: 1 no. Rock Drill: 2 nos (115 mm) Explosive van(10 tonnes): 1 no.	No change.

Details of violations observed during current inspection and compliance position of violation pointed out					
	Violation observed Show couse position				ouse position
Rule 1	NO.	Issued on	Compliance or	Rule NO.	Issued on Compliance on
MCDR17	Rule 11(1)	24/10/2018			
MCDR17	Rule 35(2)	24/10/2018			

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines