INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

Review and updation of Mining Plan REPORT

Bangalore regional office

	Mine file No : KNT/GLB/LST/48/BNG Mine code : 38KAR10017						
	(i)	Name of the Inspecting Officer and ID No.	:	A101) ARUN KUMAR			
	(ii)	Designation	:	Deputy Controller Mines			
	(iii)	Accompaning mine Official with Designation	:	G Sudhakar ,Mines Manager & K Nagaraj roa ,Geologist			
	(iv)	Date of Inspection	:	24/10/2018			
	(v)	Prev.inspection date	:				
		PAI	RT-	I : GENERAL INFORMATION			
1.	(a)	Mine Name	:	KALBURGI CEMENT LST MINE			
	(b)	Registration NO.	:	IBM/13906/2012			
	(c) (d) (e)	Category Type of Working Postal address State	:	A Fully Mechanised Opencast KARNATAKA			
		District Village Taluka Post office Pin Code FAX No. E-mail Phone	· · · ·	GULBARGA Chincholi Chincholi Kharchikhed 040-30006955 (F),sudhakar.g sudhakar.g@vicat.com			
	(f)	Police Station		Mirian			
	(g)	First opening date	:	21/06/2012			
	(h)	Weekly day of rest	:	SUN			
2.		ess for espondance	:	M/s Kalburgi Cement Private Limited, (Formerly Formerly Vicat SagarReliance Majestic,Road No. 1 Banjara Hills, Hyderabad-500034, Telengana			
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	:	KAR1616 446.77 20 08/11/2029			
4.	Mine	ral worked	:	LIMESTONE Main			

5.	Name	and Address of	the	
		Lessee	:	M/S KALBURGI CEMENT PRIVATE LIMITED
				CHATRASALA VILLAGE CHINCHOLI TALUK GULBARGA, KARNATAKA GULBARGA KARNATAKA Phone: FAX :
		Owner	:	Anoop Kumar Saxena
				M/s. Vicat Sagar Cement Pvt Limited Reliance Majestic Bldg,Road No:11 Door No:8- 2-626, Banjara Hills, HYDERABAD TELANGANA Phone:
				FAX :
		Agent	:	Anubhav Verma
				M/s. Kalburgi Cement Private Limite Chatrasala (Vil), Kherchikhed (P), Kalaburagi Dist. Karnataka GULBARGA KARNATAKA Phone: 7760686752
				FAX :
		Mining Enginee:		
		Name	:	G Venkateswarlu,Full Time
		Qualification		BE Mining
		Appointment/ Termination da		01/08/2017
		Geologist		
		Name	:	K.NAGARAJ RAO,Full Time
		Qualification	:	M.SC, (MINERAL EXPLORATION)
		Appointment/ Termination da		14/02/2011
		Manager		
		Name	:	Sh.G Sudhakar
		Qualification	:	BE Mining
		Appointment/ Termination da	: te	20/09/2013
б.		of approval of N Scheme of Mining		ng : Mining Scheme rule 12 MCDR1988 24/04/2014 Modif.approved Mining Scheme 05/05/2016 MP modif under 17(3) MCR 2016 18/05/2017 MP modif under 17(3) MCR 2016 14/05/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	NIL	No proposal	-
1b	Exploration over lease area for geological axis 1 or 2	11 core holes	33 CBH drilled in LSt to upgrade the LSt resources into reserve.11 CBH drilled to establish the pink shale as reserves.	LSt- 200X200mts, Pink Shale - 400X400m.Meterage drilled is 1805.65. Area covered G1:441.77 Ha
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Rs.40 Lakhs	M/s Global Environment Research Labs, Hosapete Rs.30.81 Lakhs	Includes drilling, logging and analysis.
ld	Balance area to be explored to bring Geological axis in 1 or 2	-	In 446.77 ha except the village area of 5.0 Ha. the balance area of 441.77 hac was explored.	be done in 5.0 Ha in future.
1e	Balance reserve as on 01/04/20	-	220.82 million tons AS ON 01.04.2018	221 million tons as per AR as on 01.04.2018
lf	General remarks of inspecting officers on geology, exploration etc			The lessee had drilled 33 nos. of CBH to upgrade the Lst resources to reserves & 11 CBH drilled to establish the pink shale as reserves.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	bench towards	Working as per proposal	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	benches are proposed in OB	OB -01 & Mineral - 05	-
2c	Stripping ratio or ore to OB ratio	1 : 0.073	1 : 0.071	No significant change
2d	Quantity of topsoil generation in m3	No proposal	Nil	-

2e Quantity of 87,442 m3 88500 m3
overburden
generation in m3
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 Number of pit 3a One One 1st,2nd & 3rd bench towards west proposed for production & 4th,5th bench towards north 3b Quantity of ROM 30,00,000 30,98,615 Tonnes Actual production mineral Tonnes is more than the planned. Violation production proposed pointed out 3c Recovery of 95% 95% 5% considered as sailable/usable mining loss. mineral from ROM production Quantity of No proposal No generation of 3d NIL mineral reject mineral reject generation 3e Grade of mineral Limestone Entire ROM is being _ rejects threshold utilized in their generation and value : CaOcaptive plant with threshold value 34% (Min) proper blending declared. 3f Quantity of sub No Proposal NA grade mineral generation. Grade of sub NA 3g No proposal grade mineral generation Manual / No such The limestone is The loading and 3h Mechanised transported to crusher transportation is proposal method adopted by 55 Tons dumper.The supported by crushed limestone is Shovel/Loader and for segregating from ROM transported through dumpers. conveyor belt to cement plant

B.D of 1.2 taken for soil

The development of benches were as per the approved document

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal	No such study carried out	_
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling and blasting proposed	Deep hole drilling & blasting in ore zone (Sandvik DP1500i top hammer drill) is used for drilling the mineral benches and blasting with nonel.	Rock breaker is used for breaking boulders.
3k	Provision of mining machineries in mineral benches	Shovel dumper combination	The loading and transportation is supported by Shovel and loader with 04 dumpers.	-
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		1.5 Mt-Top soil, 5 No of ore benches with height of 8 Mts & width of 15 to 30 mts	_
3m	Total area covered under excavation/pits	41.20 На	38.31 Ha	Excavation is within the proposed excavation limits.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.073	1 : 0.071	No significant change
30	Total area put in use under different heads at the end of year		38.31 Ha - Pit, 5.17 Ha - Infrastructure, 6.80 Hac-Plantation, Mineral * Top soil Storage and 2.02 Ha - PMCP	_
3р	Production of ROM mineral during the last five year period as applicable	2013 - 14: 25,03,416 MT 2014 - 15: 18,43,500 MT 2015 - 16: 21,31,500 MT 2016 - 17: 30,00,000 MT 2017 - 18: 30,00,000 MT	2013 - 14: 6,98,208 MT, 2014 - 15: 18,43,500 MT 2015 - 16: 21,31,500 MT 2016 -17:29,01,385 MT 2017 - 18: 30,98,615 MT	Actual production in the year 2017- 18 has exceeded the proposed production. Violation pointed out

3q	General remarks	The mine was
	of inspecting	working as per the
	officers on	proposed grids
	method of mining	with deep hole
	etc.	drilling &
		blasting.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate stacking for OB & top soil proposed	Actual work done as per the proposal	OB (BC Soil) is dumped along RSZ as safety bund towards South & temporary stacking of Topsoil is made.
4b	Location of topsoil, OB and mineral reject dumps	OB utilized for construction of bund along the ML boundary,affor estation work	OB utilized for construction of bund along the ML boundary (south) ,afforestation work done	_
4c	Number of dumps within lease area and outside of lease area	WML-05 dumps OML-Nil	WML-05 dumps OML-Nil	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Near to ML boundary as the entire ML area is mineralized	Near the ML boundary as per proposals	Along RSZ towards South and 7.5 mtrs barrier zone towards East.
4e	Number of active and alive dumps.	05	05	-
4f	Number of dead dumps.	Not proposed	No dead dumps	-
4g	Number of dumps established.	No Proposal	NIL	No dumps mautured for stabilization
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Garland drain along the working pit	-
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	Garland drain along the working pit to avoid the inrush of water covering an area of 2.0 Ha.	-
4j	Number of settling ponds	02	No work done	Settling pond not constructed.Violat ion pointed out

4k Specific comments of inspecting officer on waste dump management OB (BC Soil) is dumped along RSZ as safety bund towards South & temporary stacking of Topsoil is made.The management of top soil dumps carried out as per modified 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 proposal	Mine is initially started & very little waste material available.	_
5b	Area under backfilling of mined out area	No Proposal	NA	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Separate stacking of top soil done	_
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			There is no proposal of backfilling as the mine is at initial stage & no waste generation except small quantity of top soil.

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).	To be submitted before 1st july of every year	AR on PMCP received on 29.06.2018 for 2017-18
6b	Area available for rehabilitation (ha) .	No proposal	Nil
бс	afforestation done (ha).	No proposal	Nil
6d	No. of saplings planted during the year	No proposal	Nil
бе	Cumulative no .of plants	No proposal	Nil
6f	Any other method of rehabilitation	No proposal	Nil
бg	Cost incurred on watch and care during the year	No proposal	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	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

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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	750No	1200 Nos	Outside ML 40300 no of saplings planted
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.75 На	1.50 Ha	Outside ML 40300 no of plants are plants covering 13.79 Ha
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By Afforestation	By Afforestation	-
бр	Compliance of environmental monitoring (core zone and buffer zone)	ambient air	Season wise environmental monitoring of ambient air quality, water quality, dust fall rate, soil sample analysis& noise level are being carried out regualarly.	All parameters are within limits
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP is carried out as per the proposal. Garland drains are provided to avoid the inrush of rain water into the working pit.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Direct ROM mineral dispatch to their captive cement plant.	Direct ROM mineral dispatch to their captive cement plant. Having 2 mtpa clinkering capacity	As per the plant requirement ROM from diff. benches will be crushed and transported by conveyer.

7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	No proposal	Bench wise blending done as per requirement	-
7c	Different grade of mineral sorted out at mines.	No proposal	Bench wise blending as per requirement	-
7d	Any beneficiation process at mines	No proposal	Only crushing & sizing is done	Crusher capacity- 1400TPH
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Beneficiation of limestone is not required as the entire ore is crushed, blended & transported to the plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Removed and stacked separately. Used for plantation	Used as and when necessary.
8b	Concurrent use or storage of topsoil	No proposal	Utilized for plantation	2500 M3 of top soil utilised.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Zone and Road	Safety bund along the Eastern Boundary BZ and South of RSZ	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	The mineral is not fully excavated. Hence no use of OB for restoration	_

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	The mineral is not fully excavated.	_
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	750 nos covering 0.75 Ha	1.50 Ha,Green belt along RSZ about 1200 Nos of trees planted.	13.79 Ha,Outside ML 40300 Nos of trees planted.
8g	Survival rate	90%	WML-86 %,OML-84%	-
8h	Water sprinkling on roads to control airborne dust	Proposed	Sprinklers are provided along haul road and 8KL tanker is used to suppress the airborne dust on haul roads in mines.	Mist spray is provided at the Crusher hopper.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in & around the mine is good as lessee has carried out huge afforestation & environmental protective measures have been taken 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		Submitted AR vide letter No: KCPL/Mines- CLM/IBM/2018-80 dtd:28th June 2018.	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager-Mr Kalidindi Sudhakar ME- Mr N Prasanth Geologist-Mr K Nagaraja Rao	Mgr-Mr G Sudhakar ME-Mr G Venkateswrlu Geologist-Mr K Nagaraja Rao	Notice of termination & appointment sent

9c Scrutiny of 38.31 Ha -Appears to be correct Annual return on Pit, 5.17 Ha land use pattern for area under Infrastructure pits, reclaimed , 6.80 Hacarea, dumps etc. Plantation, Mineral & Top soil Storage and 2.02 Ha -PMCP 9d Scrutiny of WML - 1200 @ Appears to be correct Annual return on 86% survival afforestation OML- 40300 @ 84% survival 9e Scrutiny of Nil No mineral reject Annual return on generated mineral reject generation (Grade and quantity) 9f Scrutiny of ROM Stock Mineral Stock -12,86,030 Annual return on (Cement Grade) MT ROM stock and/or OB - Nil, graded ore Production:30, 98,615 MT CB - Nil 9g Scrutiny of Total Appears to be correct Annual return on Production sale value, Ex. Cost:Rs.162.85 Mine price and production cost Rs.138,31,00,0 Appears to be correct 9h Scrutiny of Annual return on 00/- including fixed assets Plant, Machinery, Land and Residential 9k Excavator (6.5 Appears to be correct Scrutiny of Annual return on M3)-01, Loader mining (6.5 M3)-01, machineries Backhoe(2.2 M3)-01, Dumpers - 04, Dozer - 01, Drill - 01, Explosive Van -1, Water Tanker -(8KL)-01, Crusher -1400TPH, MSU -01 and Pumps (Elec)-01

Details of violations observed during current inspection and compliance position of violation pointed out				
Violatior	n observed	Show couse position		
Rule NO.	Issued on Compliance or	Rule NO.	Issued on Compliance on	
MCDR17 Rule 11(1)	22/11/2018			

Date :

(ARUN KUMAR)

Indian Bureau of Mines