#### INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

#### MCDR INSPECTION REPORT

#### Goa regional office

#### Mine file No : KNT/BJP/LST-61/GOA Mine code : 38KAR26058 (i) Name of the Inspecting : KQ4 ) DR. Y.G.KALE Officer and ID No. (ii) Designation : Regional Controller Mines (iii) Accompaning mine : PAVANKUMAR DESHMUKH, MINES MANAGER Official with Designation (iv) Date of Inspection : 25/08/2016 (v) Prev.inspection date : 07/10/2014 PART-I : GENERAL INFORMATION Mine Name : MUDDAPUR (2343) 1. (a) (b) Registration NO. : IBM/418/2011 Category : A Fully Mechanised (C) Type of Working (d) : Opencast (e) Postal address State : KARNATAKA : BAGALKOT District Village : muddapur Taluka : mudhol Post office : muddapur Pin Code : 587313 FAX No. : 08350-289001 E-mail : factory.muddapur@jkcement. Phone : 08350-289000 : LOKAPUR (f) Police Station : 01/12/2007 First opening date (g) Weekly day of rest (h) : SUN : J.K.CEMENT WORKS, MUDDAPUR 2. Address for correspondance P.O.-MUDDAPUR, TQ-MUDHOL DIST.-BAGALKOT, KARNATAKA 3. (a) Lease Number : KAR1526 (b) Lease area : 161.88 Period of lease : 20 (C) (d) Date of Expiry : 03/05/2022 Mineral worked 4. : LIMESTONE Main

5.	Name	and Address of Lessee	the :	KAMLA TOWN	ER KANPUR UP IAR PRADESH 2-2371478	
		Owner	:	K. N. Kha Kamla Towe UTTAR PRAI Phone: FAX : 051	er KANPUR URBAN DESH	
		Agent	:	J. K. Ceme Village-Mu Mudhol BAG	uddapur Taluka- GALKOT KARNATAKA 550-289104, 9686502250	
		Mining Enginee	r			
		Name	:	NITIN PURG	DHIT,Full Time	
		Qualification Appointment/ Termination da	:	B.E MINING	G WITH 23 YEARS EXPERIENCE	
		Geologist				
		Name	:	Hemant Vei	rma,Full Time	
		Oualification	:		pplied Geology)	
		Appointment/ Termination da	:	16/04/2011		
		Manager Name Qualification Appointment/ Termination da	:	BE MINING	AR DESHMUKH WITH FCC CERTIFICATE 5	
6.		of approval of Scheme of Minin		ng :	Fresh under rule 22 MCR1960 Mining Scheme rule 12 MCDR1988 Modif.approved Mining Scheme MP modif under MCR 1960	01/12/2006 22/08/2011 04/03/2014 03/03/2016

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

# Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was proposal to drill 14 boreholes in the year 2015-16.	No exploration was carried out as the mine was temporarily discontinued from 01.08.2015 to 05.04.2016.	Mining plan was modified on 03.03.2016 and fresh proposals were made for exploration during 2016-17 & 2017-18.
1b	Exploration over lease area for geological axis 1 or 2		About 119.43Ha is explored under G-1 level and 5.01 ha is explored under G-2 level.	Proposal are made in the approved modified mining plan dated 03.03.2016 to explore entire mineralized area under G-1 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposals were made in the approved document for Exploration Agencies and Expenditure.	No exploration was carried out during the year 2014–15 and 2015– 16.	Total expenditure incurred on exploration so far is about Rs.166 lakhs.
1d	Balance area to be explored to bring Geological axis in 1 or 2	37.43 ha.	Exploration proposed during 2016–17 & 2017– 18.	As per the approved document dated 03.03.2016, proposals are made in the year 2016- 17 and 2017-18.

l.No	. Item I	Propasals	Actual work	Remarks
Dev	velopment :			
			G-1 level during 2016-17 & 2017-18.	
			mineralized area under	
	exploration etc		convert entire	
	geology,		proposals are made to	
	officers on		of exploration and	
	of inspecting		explored under G-1 level	
1f	General remarks		Most of the area is	
			25531000	
			333	
			Inferred Resources	
			1885000	
			Pre Feasibility Resources 221 & 222	
			4378000	
			211	
			Feasibility Resources	
			2716000	
			121 & 122	
			Probable Reserves	
			54920635	
			111	
			Proved Resrves	
			in tons	
			UNFC code Quantity	
			Classification	
1e	Balance reserve as on 01/04/20		Reserves as on 01.04.2016	

2a	Location of development w.r.t.lease area	proposed to work b/w	In the year 2015-16 working has been carriedout b/w sections 5.5-5.5' to 10-10' of pit no-1 and 15-15' to 19-19' of pit no-2. In the year 2016-17 (upto Aug-2016) working has been carriedout in the sections 3.5-3.5' to 4.5-4.5' of pit no-3.	The mine was temporarily discontinued from 01.08.2015 to 05.04.2016 due to transportationissu es and therefore, development is lagging behind. Further some of area where proposals are made is not acquired by the lessee. However, lagging proposals were rectified in the modified Mining Plan.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to work three benches in the year 2015-16 and all are in ore only.	-	All the benches are in ore only.
2c	Stripping ratio or ore to OB ratio	1:0.017 ( for the year 2015- 16)	1:0.003 ( for the year 2015-16)	
2d	Quantity of topsoil generation in m3	2450 (for the year 2015–16)	Nil (for the year 2015- 16)	The mine was temporarily discontinued during 2015-16

2e Quantity of 228540 (for 347m3 overburden the year 2015generation in m3 16)

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

The mine was temporarily discontinued during 2015-16. In general the mine working is systematic. However, due to transportation problem during major portion of 2015-16, the mine was temporarily suspended. Further, surface rights over intermittent patches in the lease area are yet to be acquired by the lessee. This creates problem for systematic development.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	were proposed during the	During 2015-16 working has been carried out in two pits Pit No-1 and pit No-2 as proposed.	During the inspection it was observed that Pit No.4 (Fresh area has been opened up as proposed in the year 2016-17)
3b	Quantity of ROM mineral production proposed	2.0 M.T. during the year 2015-16	0.18 M.T. (189365 Tonnes)	The mine was temporarily discontinued from 01.08.2015 to 05.04.2016 due to transportation issue.
3с	Recovery of sailable/usable mineral from ROM production	95%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	

3e Grade of mineral Nil rejects generation and threshold value declared.

- 3f Quantity of sub Nil grade mineral generation.
- 3g Grade of sub Nil. Nil. grade mineral generation

Threshold value for

above the threshold value and saleable.

Nil

limestone of Karnataka

is Cao minimum 35% . The

ore which is produced is

3h Manual / Nil Nil Mechanised method adopted for segregating from ROM

3i Any analysis or For beneficiation beneficiation study proposed studies on low and carried out grade for sub grade siliceous mineral and limestone, rejects. sample below 35% Cao sent to RODL, IBM,

No crushing and screening activity in the lease area. The ROM is being consumed at the company's cement plant. The lessee sponsored laboratory scale sample for reduction of silica. The result shows substantial improvement in the low grade limestone with floatation (wet) method. The RODL, Bangaluru suggested for Pilot Plant Scale investigation and lessee has been requested to take up Pilot Plant investigations.

3j Provision of It is proposed Drilling and Blasting is drilling and to drill by going on as per the blasting in DTH drill of proposals. mineral benches 115mm dia and controlled blasting using nonels.

Bengaluru.

Provision of 3k Two Hydraulic Machineries were engaged mining Excavators of as per the proposal. The machineries in 100m3/hr working is done through mineral benches capacity, one contractor. Hydraulic Excavator with Rock Breaker of 30tons/hr capacity and two DTH drill with compressor unit for drilling is proposed. 31 Whether height 8mtr bench Benches were maintained of benches in height is at 6-8m height and found suitable for method of overburden and proposed. mineral suitable mining proposed in the for method of approved document. mining proposed in MP/SOM 3m Total area Approximately Approximately 21.27 ha Toal area covered covered under 20.22ha upto upto 2015-16. under excavation excavation/pits 2015-16. is 21.27Ha. 3n Ore to OB ratio 1:0.017 1:0.003 for the pit/mine during the year. 30 Total area put Area under Mining in use under 21.270 Ha., Waste Dump different heads 0.250 Ha., at the end of Infrastructure - 0.083 Ha. and Other year (Afforestation, Road, Buffer Zone etc.) -16.780 Ha. Production of 2016-17 2016-17 469800 Зp 1999928 tons tons (upto July 2016) ROM mineral during the last 2015-16 2015-16 189365 five year period 2000000 tons tons 2014-15 as applicable 2014-15 1433126 2000000 tons tons 2013-14 2013-14 1084865 1998000 tons tons 2012-13 2012-13 1304035 1950000 tons tons 2011-12 2011-12 1324631 1968000 tons tons

Зq	General remarks of inspecting	The Mining Operations are
	officers on	being carried out
	method of mining	systematically and
	etc.	scientific manner.

# Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	proposals were made	The overburden quantiy removed during the year 2015-16 is about 347m3 only and dumped in the area enmarked for dumping OB.	No top soil and mineral reject is generated during the year 2015-16 and no dump is formed for top soil and mineral rejection as during 2015-16, for major time, the mine working was temporarily discontinued.
4b	Location of topsoil, OB and mineral reject dumps	to dump overburden b/w	As the mine was discontinued, the waste generated during the year 2015-16 is very less and is about 347m3. The waste generated is dumped as per the proposals.	No topsoil and mineral rejects were handled in the year 2015-16.
4c	Number of dumps within lease area and outside of lease area	were proposed		No topsoil and mineral reject were generated during the year 2015-16.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	locations were outside the	Dumping was made as per the proposal.	The proposed waste dump is proved for non-mineralized area.
4e	Number of active and alive dumps.			No topsoil is handled and no mineral reject is generated in the year 2015-16.

4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	03	01	
4h	Whether Retaining wall or garland drain all along dumps are there.	No year wise proposals were made. However retaining wall of total 470mtrs, Parapet wall of about 3645mtrs and garland drain of 1180 mtrs were proposed in the 5 years plan period.		Dump was not formed as proposed because the mine was discontinued for the period August-2015 to April 2016.
4i	Length of Retaining wall or garland drain all along dumps	NA	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management		A small quantity of waste was generated in the year 2015-16 and dumping was made as per the proposal.	The dump (quantity) is not formed as per the proposal due to discontinuity of the mining operations.

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.	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA
5d	Total area fully reclaimed and rehabilitated	NA	NA
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	The mineral is proved upto a depth of 55m and present working is not reached the proved depth so no proposals were made for backfiling and reclamation etc.

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).	Annual report required under Rule 23(E)(2) of MCDR-1988, is not submitted for the year 2015-16.	Violation is pointed out for the same.	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.75 in 2015- 16	0.06 in 2015-16	The mine was discontinued for major period of 2015-16
6d	No. of saplings planted during the year	1875 saplings in the year 2015–16	1150 saplings were planted in 2015-16.	
6e	Cumulative no .of plants	15875 plants.	10748 upto July 2016.	
6f	Any other method of rehabilitation	Nil	Nil	

бg	Cost incurred on watch and care during the year		1.60 Lakhs
6 h	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
6 k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
61	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
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA
бр	Compliance of environmental monitoring (core zone and buffer zone)		Lessee is regularly monitoring ambient air quality, water quality and all are found within permissible limits.
6q 	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		As the dump was not formed as per the proposal, construction of parapet wall, retaining wall and garland drains have not started. The lessee has incurred expenditure of about Rs. 1.60 Lakh in 2015-16 towards various environmental protective measures including monitoring.

### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		About 220449 tons of cement grade ore is despatched in the year 2015-16.	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Nil	Average grade of the limestone is of cement grade only and same is being utilized for captive cement plant.	
7c	Different grade of mineral sorted out at mines.	Nil	No sorting is being done. Entire ore is utilized for captive cement plant.	

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

Based on laboratory scale investigations RODL, Bangaluru has suggested to take up pilot plant scale investigations for reduction of silica content. Lessee is being persuaded to take up study.

### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)		No topsoil is generated in the year 2015-16 and 2016-17 upto July 2016. The topsoil removed earlier is utilized for plantation within and outside the lease area.	
8b	Concurrent use or storage of topsoil		The topsoil generated is utilized for plantation within and outside the lease area.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	03 dumps were proposed, one for topsoil, one for OB and one for mineral reject.	One OB dump is done within the lease area as per the proposal.	
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)	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The area is devoid of trees except bushes & shrubs.	Total 10748 saplings were planted by the lessee In and around mining lease area
8g	Survival rate		85-90%
8h	Water sprinkling on roads to control airborne dust		Regular water spraying is being done on haul roads and working areas using water tanks.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		The benches were systematically developed. Plantation was made in the 7.5 safety zone and in the waste land within the lease area. Different variety of plantation was done outside the lease area around the mine office. The lessee has been advised to clear the boulders within the pit to improve aesthetic beauty.

# Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks	
9a	Status of submission of Monthly and Annual returns		Lessee is submitting Monthly and Annual returns within time.		

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	returns	Same as mentioned in the Annual returns.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	21.270 ha, Waste disposa 1- 0.250 ha, Infrastructure	Area is matching as shown in Annual Retuns.
9d	Scrutiny of Annual return on afforestation	=	Almost matching with annual returns.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore		
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	submitted for	Since the ore is used for captive cosumption, sale value is not shown in the annual returns.
9h	Scrutiny of Annual return on fixed assets	Total value of fixed assets is mentioned as Rs. 6855794992.	
9k	Scrutiny of Annual return on mining machineries	Back hoe machinery of 2.1m3 capacity - 2 nos, 1.5m3 capacity - 01 no, dozer-01, drill and compressor-01 no.	

Details of violations observed during current inspection and compliance position of violation pointed out						
Viola	tion observed		Show couse position			
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on Compliance on		
Rule 13(1)	19/09/2016	07/10/2016				
Rule 23E(2)	19/09/2016	07/10/2016				
Rule 63	19/09/2016	07/10/2016				

Date :

#### (DR. Y.G.KALE)

Indian Bureau of Mines