

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

**MCDR INSPECTION REPORT**

**Goa regional office**

**Mine file No :** KNT/BJP/LST-4/GOA

**Mine code :** 38KAR05005

- (i) Name of the Inspecting : **KQ2** ) **KALMATA M.K.**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : B.S.Burali, Manager (Admin).  
Official with  
Designation
- (iv) Date of Inspection : 11/05/2016
- (v) Prev.inspection date : 19/11/2014

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **CHIKKASHELLIKERI**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : KARNATAKA  
District : BAGALKOT  
Village : CHIKKASHELLIKERI  
Taluka : BADAMI  
Post office : CHIKKASHELLIKERI  
Pin Code : 587204  
FAX No. :  
E-mail : bagalkotchemicalindustries@  
Phone : (08354) 240127, 220763
- (f) Police Station : Kaladgi
- (g) First opening date : 10/08/1978
- (h) Weekly day of rest : THU
2. Address for : Village:Chikkashellikeri,  
correspondance Taluka:Bagalkot  
Distt.:Bagalkot.
3. (a) Lease Number : KAR0021
- (b) Lease area : 8.09
- (c) Period of lease : 20
- (d) Date of Expiry : 09/08/1998
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : BAGALKOT CHEMICAL INDUSTRIES  
'NANDI', NEAR WATER TANK,  
BHAGWAN MAHAVIR ROAD,  
BAGALKOT BAGALKOT KARNATAKA  
Phone:08354-220763, 220898  
FAX :

Owner : Smt.Bharati M.Hurakadli  
'Nandi',Near Water Tank,  
Sri Bhagavan Mahavir Road  
Bagalkot. BAGALKOT  
KARNATAKA  
Phone: (08354) 220763(  
FAX :

## Mining Engineer

Name : N KUMAR,Full Time  
Qualification : DIPLOMA MINING  
Appointment/ : 15/03/2013  
Termination date

## Mining Engineer

Name : A KEDARESWARAPPA,Full Time  
Qualification : Dip. In Mining, Foreman Certificate  
Appointment/ : 01/06/2000 22/05/2005  
Termination date

## Manager

Name : B.R.GOPINATH  
Qualification : DIP. IN ME AND FORMAN'S CERTIFICATE  
Appointment/ : 30/06/2006 10/03/2013  
Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	20/08/1996
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	02/12/2003
		Modif.approved Mining Scheme	01/02/2008
		Mining Scheme rule 12 MCDR1988	22/09/2009
		Mining Scheme rule 12 MCDR1988	26/03/2014

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Six core boreholes to a depth of 70m each were proposed in the year 2014-15.	Drilled six core boreholes in the year 2015-16 to a total depth of 325 mtrs.	J form submitted to this office on 23.10.2015.
1b	Exploration over lease area for geological axis 1 or 2	It was proposed to explore entire area under G-1 level.	Explored entire area under G-1 level.	Exploration is carried out in 200 x 200 grid pattern.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposals were given in the approved document.	Exploration work has been carried out by lessee himself and Total expenditure made for drilling is three lakh fortysix thousand.	Expenditure is excluding logging and analysis charges.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Entire area is explored under G-1, level.	
1e	Balance reserve as on 01/04/20		Reserves as on 01.04.2016. Classification UNFC code      Quantity in tons Proved Reserves 111 262687 Probable Reserves 122 3077976 Inferred Resources 333 2575093	
1f	General remarks of inspecting officers on geology, exploration etc		The entire area is explored in the regular grid interval under G-1 level.	Exploration is carried out upto the UPL( depth wise)

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

2a	Location of development w.r.t.lease area	It was proposed to work between the co-ordinates N-1786190, N-1786270 & E-555220-E-555230 to N1786050, N-1786170 & E-555450, E-555470.	Working has been carried out as per the proposal.benches were moved from centre to north eastern part of the lease as proposed.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to work four benches.	Four benches were formed all in ore only.	No waste generation in the present plan period.
2c	Stripping ratio or ore to OB ratio	1:0	No rejection/waste is handled in the present plan period.	Most of the area is opend and generation of top soil and rejection is nil during present plan period.
2d	Quantity of topsoil generation in m3	Nil	Nil	The area proposed for woking during the plan period is already brokenup. No virgin area is proposed in the present plan period.
2e	Quantity of overburden generation in m3	Nil	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Working has been carriedout along the strike of the formation. Total 4 benches were developed and benches were moved from centre to north eastern part of the lease.	

---

#### Exploitation:

---

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

---

3a	Number of pit proposed for production	One pit is proposed for production.	working has been carried out as per the proposal.	Existing benches were moved laterally towards the eastern of the lease side as per the proposal.
3b	Quantity of ROM mineral production proposed	2014-15 59000 tons 2015-16 59000 tons 2016-17 59000 tons	2014-15 30100 tons 2015-16 33100 tons 2016-17 2500 ( upto april 2016)	The less production is due to fluctuations in the market.
3c	Recovery of sailable/usable mineral from ROM production	98%	100% recovered.	
3d	Quantity of mineral reject generation	Nil	Nil	No mineral rejection is generated.
3e	Grade of mineral rejects generation and threshold value declared.	Nil.	Threshold value for limestone of Karnataka is Cao minimum 35% . the ore which is produced is above the threshold value and saleable.	No mineral rejection is generated.
3f	Quantity of sub grade mineral generation.	Nil	Nil	No sub-grade is generated.
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual.	Production operations are carried out manually for sizing, sorting and loading etc.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	

3j	Provision of drilling and blasting in mineral benches	It was proposed Jack hammer drilling and blasting by gelatin along with electronic detonator.	Drilling and blasting is carried out as per the proposal.	Lessee has licence to possess for use of explosive.
3k	Provision of mining machineries in mineral benches	Nil	Sorting, Sizing and loading is done by manually.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No overburden benches were proposed.	Total four benches were formed and all are ore benches only.	Height of each bench is 3-4 mtr.
3m	Total area covered under excavation/pits	3.75 Ha (2013-14 to 2015-16)	3.25 Ha (2013-14 to 2015-16)	Total area broken is 6.30 ha.
3n	Ore to OB ratio for the pit/mine during the year.	1:0	No rejection is handled during the present plan period.	Rejection generation is shown as nil.
3o	Total area put in use under different heads at the end of year		Area under mining Ha Infrastructure 0.007 Ha Green belt Ha Mineral stack Ha unbroken 0.383 Ha	6.30   0.95  0.45
3p	Production of ROM mineral during the last five year period as applicable	2012-13 59000 tons 2013-14 59000 tons 2014-15 59000 tons 2015-16 59000 tons 2016-17 59000 tons	2012-13 24590 tons 2013-14 18249 tons 2014-15 30100 tons 2015-16 33100 tons 2016-17 2500 tons ( upto april-16)	

3q General remarks of inspecting officers on method of mining etc. Most of the area is broken up and benches were systematically developed.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Nil	Nil	No top soil and OB generation in the present plan period.
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	No Top soil, OB and mineral reject dumps exists in the lease area.
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	No waste dumps within and outside the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	
4e	Number of active and alive dumps.	Nil	Nil	
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.	It was proposed to construct One retaining wall, garland drain around the toe of the dump.	No rejection was handled during the present plan period and no dump was formed so the said work has been not carriedout.	

4i	Length of Retaining wall or garland drain all along dumps	It was proposed to construct a retaining wall of 30m(l) x 1m(w) x 0.75m(h) dimension and garland drain of 30m.	No rejection was handled during the present plan period and no dump was formed so the said work has been not carried out.
4j	Number of settling ponds	NA	NA
4k	Specific comments of inspecting officer on waste dump management		The waste generation is almost nil hence no waste dump is formed. The waste generated in the beginning is used for maintenance of road, putting bunds in the 7.5m safety barrier.

#### Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal for backfilling in the present plan period.	By core drilling existence of Mineral is proved up to 479 RL and present working is reached up to 522 RL only, so no proposal of backfilling in the present plan period.	
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)	Nil	No top soil generation will be there in the present plan period.	Present workings are proposed in the broken up area only.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	



5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The mineral is proved up to 479 RL and present working is reached only up to 522 RL so there is no proposal of back filling in the present plan period.
----	--	----	---

#### 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).		A annual report required under Rule 23(E) (2) of MCDR-1988, is not submitted for the year 2014-15 and 2015-16.	Violation is pointed out for the same.
6b	Area available for rehabilitation (ha) .	Nil	Nil	Entire area is mineralized and ore is proved upto 479 RL. present working reached a depth up to 522 RL.
6c	afforestation done (ha).	It was proposed to plant 190 samling/ year in the safety zone covering approximately 0.038Ha/ year.	Plantation was not done as per the proposal. only few plantation was made near the office and few in 7.5m safety zone.	Violation is pointed out for the same.
6d	No. of saplings planted during the year	It was proposed to plant 190 saplings along the 7.5m safety zone.	Approximately 50-70 saplings were planted near office and in 7.5m safety zone.	Violation is pointedout for tha same.
6e	Cumulative no .of plants	950 saplings for the five yaer plan period (2014-15 to 2018-19)	Approximately 50-70 saplings were planted.	
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 ( L x 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)Afforestation on backfilled area	NA	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	Some plantaion is done near office and in 7.5m safety zone.

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)		The Ambient Air Quality, Noise and water quality in Core and buffer zone will be monitored regularly through the authorized agency and results were found within permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Proposed to plant 190 saplings/year.	Plantation was not made as per the proposal and violation is pointed out for the same. since no dumping was made and no dump is exist at present the retaining wall and garland drains were not made as per the proposal. Lessee is regularly monitoring Air,Noise and water quality and submitting report to this office.

---

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		During the 2015-16 lessee has dispatched about 33046 tons of lime stone in that about 27498 tons is cement garde and about 5548 tons is BF grade.	

---

7b	Method of grade- Both wise mineral sorting i.e. manual or mechanical.			A crushing and screening plant of 8 TPH is installed within the lease area. Depend upon the buyers specification this plant will be operated.
7c	Different grade of mineral sorted out at mines.			Cao +35 to 48%
7d	Any beneficiation process at mines .	Nil	Nil	Only Crushing and screening by 8TPH plant.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The subgrade generation is very less and lessee is utilizing all the mineral by blending lowgrade with highgrade as per the buyer specification..

---

**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil.	Nil.	No top soil is removed in the present plan period. the working proposals are made in the already broken up area and no top soil generation will be threere.
8b	Concurrent use or storage of topsoil	Nil	No top soil generation in the present plan period.	The topsoil generated in the past is used for plantation in the 7.5m safety zone and near mine office.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	No waste generation in the present plan period.

---

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	No waste generation in the present plan period.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Mining is not reached upto proved depth or UPL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	190/year.	Only 50 to 70 plantation is done in the present plan period.	
8g	Survival rate		30-40%	Water scarcity is more in the Bagalkot district so it is difficult to give water to plantation during the summer.
8h	Water sprinkling on roads to control airborne dust		Mine is working manually generally no dust generation will be there. Lessee is using water tankers to wet the the road when ever it is necessary.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		most of the area is degraded by mining. Benches are systematically developed.	

---

Compliance of Rule 45:

---

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

---

9a	Status of submission of Monthly and Annual returns		Lessee is submitting monthly returns regularly but not submitted Annual returns for the year 2014-15 and 2015-16 so violation is pointed out for the same.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer name mentioned as N Kumar (Diploma in mining) and no geologist.	N kumar is appointed as Mining engineers since 15/03/2013 and continued. notice of appointment in form-I is sent to this office on 13.01.2104. Notice of appointment in form-I was sent to this office on 13.01.2104.	Lessee has not submitted the annual returns for the year 2014-15 & 2015-16. And produced annual returns submitted for the year 2013-14 for scrutiny.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining 6.0Ha, used for waste disposal 0.50 ha, infrastructure 1.35 (as per annual returns 2013-14)	Present land use details is as follows. Area under mining 6.30 Ha Infrastructure 0.007 Ha The present land use details are not matching with the details given in the A/R submitted for the year 2012-14 and same was brought to lessees notice for correction.	Lessee has not submitted the annual returns for the year 2014-15 & 2015-16. And produced annual returns submitted for the year 2013-14 for scrutiny.
9d	Scrutiny of Annual return on afforestation	Nothing was shown in the annual returns submitted for the year 2013-14.	As per the records maintained by the lessee 90 plants were planted during 2013-14.	
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	Annual returns not submitted for the year 2014-15 & 15-16	Stock position for the year 2015-16 as submitted to DMG is as follows. opening stock 3676 tons production 33100 tons closing stock 3730 tons	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price and sale value are not shown in the annual returns submitted for the year 2013-14.	Same was brought to lessees notice to give ex-mine price and sale value in the annual returns.	
9h	Scrutiny of Annual return on fixed assets	NA	NA	Lessee has not submitted the annual returns for the year 2014-15 & 2015-16. And produced annual returns submitted for the year 2013-14 for scrutiny.
9k	Scrutiny of Annual return on mining machineries	Annual returns not submitted for the year 2014-15 and 2015-16.	Crushing and screening plant and air compressor were seen during inspection.	

---

**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
Rule 13(1)	23/05/2016		Rule 13(1)	23/05/2016	
Rule 23E(2)	23/05/2016		Rule 23E(2)	23/05/2016	
Rule 27(4)	23/05/2016	27/07/2016	Rule 45(5) (b)	23/05/2016	
Rule 45(5) (b)	23/05/2016		Rule 48	23/05/2016	
Rule 48	23/05/2016		Rule 63	23/05/2016	
Rule 63	23/05/2016				

**Date :**

**(KALMATA M.K.)**

Indian Bureau of Mines