

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

**MCDR INSPECTION REPORT**

**Goa regional office**

**Mine file No :** KNT/BJP/LST-99/GOA

**Mine code :** 38KAR26078

- (i) Name of the Inspecting : **KQ2** ) **KALMATA M.K.**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sh C.A.Patil, Lessee.  
Official with  
Designation
- (iv) Date of Inspection : 13/05/2016
- (v) Prev.inspection date : 07/06/2013

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **MUDDAPUR LST. & DOL. MINE**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address  
State : KARNATAKA  
District : BAGALKOT  
Village : MUDDAPUR  
Taluka : MUDHOL  
Post office :  
Pin Code :  
FAX No. :  
E-mail :  
Phone : 09740007762
- (f) Police Station : LOKAPUR
- (g) First opening date : 11/09/2010
- (h) Weekly day of rest : TUE
2. Address for : VILLAGE: MUDDAPUR, TQ: MUDHOL  
correspondance : DIST: BAGALKOT  
KARNATAKA
3. (a) Lease Number :  
(b) Lease area :  
(c) Period of lease :  
(d) Date of Expiry :
4. Mineral worked : DOLOMITE Associated  
LIMESTONE Main

## 5. Name and Address of the

Lessee : CHANNABASAPPA A PATIL ,MAJUNATH MINERALS  
P.O.LOKAPUR TQ:MUDHOL DIST:  
BAGALKOT BAGALKOT KARNATAKA  
Phone:  
FAX :

Owner : CHANNABASAPPA A PATIL  
C/O MANJUNATH ELECTRICALS  
OPP. TO MAHADWAR P.O.  
LOKAPUR TQ:MUDHOL BAGALKOT  
KARNATAKA  
Phone: 09740007762  
FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	18/11/2009
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	07/11/2014
	:	Mining Scheme rule 12 MCDR1988	14/05/2015

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	No proposals were made in the approved mining plan/scheme of mining.
1b	Exploration over lease area for geological axis 1 or 2	No proposals are made in the approved mining plan/scheme of mining.	Nil	The entire area is explored under G-1 and G-2 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration proposals in the approved document.	Nil	Lessee has drilled 11 DTH boreholes in the year 2014-15 and total expenditure incurred is about 3.0 lakhs.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Entire area is explored under G-1 and G-2, level of exploration.
1e	Balance reserve as on 01/04/20		Reserves/rsources of limestone as on 01.04.2016 is as follows.  UNFC classification UNFC Code    Quantity in tons. Proved reserves 111            437683 Pre-feasibility resources    222 848085 Grand total 1285768	
1f	General remarks of inspecting officers on geology, exploration etc	Nil	In the Year 2014-15 lessee has drilled total 11 DTH boreholes and entire area is explored.	

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	For the year 2015-16 working proposal was made in the South-Eastern part and Central part of the lease area.	Working has been carriedout as per the proposal.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	one bench was proposed to a heigt of 3 mtrs.	Total three benches were formed and all are in ore only.	In the year 2015-16 only one bench is worked for limestone.
2c	Stripping ratio or ore to OB ratio	1:0.05	Total 2500 tons OB is removed combinedly for limestone and dolomite. the stripping ratio will be around 1:0.1	
2d	Quantity of topsoil generation in m3	About 242 cub.mtr, top soil generation was proposed in the year 2015-16 for the limestone.	About 280 cub.mtrs topsoil was generated and same is utilized for plantation and for agriculture within the lease area.	
2e	Quantity of overburden generation in m3	About 506 cub. mtrs OB generation was proposed in the year 2015-16 for limestone.	About 1250cub.mtr (2500 tons) of OB is removed combindly for limestone and dolomite.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Working has been carredout as per the proposals and total three benches were developed.benches were moved towards the westerns side from the center and towards the lease boundary in the south-eastern side.	

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Exploitation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	one	one	
3b	Quantity of ROM mineral production proposed	25000 tons (Limestone)	10,000 tons (Limestone)	The less production is due to market fluctuations.
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	
3d	Quantity of mineral reject generation	Nil	Nil	No mineral reject 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 reject is generated.
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Crusher installation is under process.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches	It was proposed Jack hammer drilling and blasting by slurry and ANFO.	Drilling and blasting is carriedout as per the proposal.	Lessee has tie up with the explosive suppliers.

3k	Provision of mining machineries in mineral benches	Small capacity Excavators and JCB loaders were proposed.	In the year 2015-16 production was less and mining was done manually and some time JCB is used.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3mtrs bench height is proposed.	Bench height is maintained as per the proposal.	
3m	Total area covered under excavation/pits	About 0.32 Ha for limestone for the year 2015-16.	about 0.15 Ha. for limestone.	Total area covered under excavation is around 1.75 ha.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	1:0.1	
3o	Total area put in use under different heads at the end of year		Area under mining - 1.75ha, Waste disposal -0.2ha, Infrastructure- 0.19ha and Green belt- 0.18ha	
3p	Production of ROM mineral during the last five year period as applicable	In tons 2015-16 Lst-25000 Dol-75000 2014-15 Lst-11111 Dol-16667 2013-14 Lst-11111 Dol-16667 2012-13 Lst-11111 Dol-16667 2011-12 Lst-11111 Dol-16667	In tons 2015-16 Lst-10000 Dol-15000 2014-15 Lst-10000 Dol-13000 2013-14 Lst-7710 Dol-11300 2012-13 Lst-9700 dol-11000 2011-12 Lst-7851 Dol-3535	
3q	General remarks of inspecting officers on method of mining etc.		In the year 2015-16 production was less due to market conditions and mining was done manually and some time JCB is used. 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)		The topsoil generated in the year 2015-16 is utilized for plantation and no stocking was made. Duming of OB is made as per the proposal and no mineral reject was recorded in the year 2015-16.	
4b	Location of topsoil, OB and mineral reject dumps	The dumping of OB and storage of mineral was proposed in the North-western part of the lease area.	Dumping of OB and temprory mineral storage was made as per the proposal.	
4c	Number of dumps within lease area and outside of lease area	One within the lease area.	One with in the lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed dump is in the North-western part of the lease area.	OB generated is utilized for making ramp to the crushing and screening plant proposed at North-eastern part of the lease area.	
4e	Number of active and alive dumps.	one	one	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	one	one	
4h	Whether Retaining wall or garland drain all along dumps are there.	One toe wall and Garland drain is proposed for the plan period.	No toe wall and Garland drains were constructed.	The OB generation in the year 2015-16 is very less and most of the quantity is utilized for making ramp to proposed crushing plant. Quantity of existing OB is very less so no toe wall and garland drain is constructed.

4i	Length of Retaining wall or garland drain all along dumps	It was proposed to construct toe wall of 185m and Garland drain of 235m for the plan period.	Existing plan period is valid upto 2019-20. During the period 2015-16 the generation of OB is very less and most of the quantity is utilized for making ramp to proposed crushing plant, so no toe wall and garland drains were made.
4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management		Generation of OB is very less and most of the OB is utilized for making ramp to crushing plant.

#### 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 for backfilling in the present plan period.	Ore is proved upto a depth of 50mtrs from the ground level. The present working is reached upto a depth of 10-12 mtrs only. So at present no proposals are made for backfilling.	
5b	Area under backfilling of mined out area	Nil	Nil	Ore is not exhausted.
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 ore is proved upto a depth of 50mtrs from the ground level and present working is reached to a depth of 10-12 mtrs only. So no proposals were made for backfilling.
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#### 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).		Yes	
6b	Area available for rehabilitation (ha) .	Nil	Nil	Entire area is mineralized and ore is not exhausted.
6c	afforestation done (ha).	0.037Ha for the year 2015-16.	0.07 Ha	Total area covered under plantation is about 0.185Ha.
6d	No. of saplings planted during the year	Number of plants not mentioned.	200 saplings.	
6e	Cumulative no .of plants		As per the lessee total 3200 saplings were planted in the last five years.	
6f	Any other method of rehabilitation	Nil	Nil	
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 ( 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)Afforestation on on backfilled area	NA	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6l	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
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.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		About 14703.500 tons ore is dispatched from the mine during 2015-16.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.		Manual	
7c	Different grade of mineral sorted out at mines.		Cao +35 to 49%	
7d	Any beneficiation process at mines .		Nil	
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..	

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	About 242 cub.mtr, top soil generation was proposed in the year 2015-16 for the limestone.	About 280 cub.mtrs approximately 430 tons of top soil is removed in the year 2015-16 and entire top soil is utilized for plantation and for agriculture purpose within the lease area.
8b	Concurrent use or storage of topsoil		The top soil generated is using for plantation within the lease area.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	The dumping of OB and storage of mineral was proposed in the North-western part of the lease area.	Most of the OB generated during the year 2015-16 is utilized for making ramp for crushing plant within the lease area.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use		NA
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)		NA
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		As per the lessee total 3200 saplings were planted in the last five years.
8g	Survival rate		80-90%

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	The benches were systematically developed and lessee has made plantation more than the proposal. And top soil generating during the mining operation is utilizing for plantation.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Party is submitting monthly and annual returns within time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Nagayya Bixawathi is the mines manager and lessee has appointed Shri. Gajjala Devakrishna Reddy as part time Geologist.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details as per the annual returns 2014-15 Area under mining- 1.781 ha, dumping- 0.257ha, infrastructure -0.190ha and green belt- 0.185ha.	Land use details on the day of inspection (approximately) Area under mining- 2.00ha, mineral storage & dump- 0.35ha, Infrastructure- 0.19ha and Green belt- 0.185ha.	
9d	Scrutiny of Annual return on afforestation	It is mentioned that 120 saplings were planted in the year 2014-15.	Plantations were made as mentioned in the AR.	

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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	OS-6342.490 production-10000.000 despatch-7265.580 CS-9076.910 (AR-2014-15)	The figures are almost matching with the stock position submitted to DMG and stock physically dumped in the stock yard.	The lessee is having limestone of BF and Cement grade but in the AR it is shown under SMS grade and same is pointed out to lessee for rectification.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price-392.06 (Rs) cost of production-180 rs.	The sale value is varies from buyer to buyor.	
9h	Scrutiny of Annual return on fixed assets	1600000 rs including land, infrastructure and machinery.	Almost matching.	
9k	Scrutiny of Annual return on mining machineries	One air compressor was shown.	Same is in use.	

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**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 42(1)(C)(I)	24/05/2016	11/07/2016			
Rule 42(1)(C)(II)	24/05/2016	11/07/2016			

**Date :**

**(KALMATA M.K.)**

Indian Bureau of Mines