

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

**MCDR INSPECTION REPORT**

**Goa regional office**

**Mine file No :** KNT/BJP/LST-78/GOA

**Mine code :** 38KAR26057

- (i) Name of the Inspecting : **KQ2** ) **KALMATA M.K.**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sh Shivanand L. Udapudi, Lessee.  
Official with  
Designation
- (iv) Date of Inspection : 12/05/2016
- (v) Prev.inspection date : 11/03/2014

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **LOKAPUR (2359)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : KARNATAKA  
District : BAGALKOT  
Village : LOKAPUR  
Taluka : MUDHOL  
Post office : LOKAPUR  
Pin Code : 587122  
FAX No. : NA  
E-mail : sludapudi@gmail.com  
Phone : 09448489455
- (f) Police Station : LOKAPUR
- (g) First opening date : 05/05/2006
- (h) Weekly day of rest : TUE
2. Address for : Shri Shivanand L. Udapudi  
correspondance : At and Po-Lokapur, Tq-Mudhol,  
Dist-Bagalkot, Karnataka
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : SHIVANAND L. UDAPUDI  
VILLAGE: NAGANPUR TQ:  
MUDHOL BAGALKOT KARNATAKA  
Phone:  
FAX :

Owner : SHIVANAND L UDAPUDI  
BAGALKOT ROAD, LOKAPUR TQ-  
MUDHOL BAGALKOT KARNATAKA  
Phone: 09482611111  
FAX :

## Manager

Name : Shri Prameshwaraiah  
Qualification : Mine foreman certificate holder  
Appointment/ : 01/06/2013  
Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	18/06/2002
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	08/02/2007
	:	Mining Scheme rule 12 MCDR1988	29/11/2011

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	One core hole to a depth of 20m was proposed in the year 2011-12.	Lessee has drilled 4 coreboreholes with total meterage of 85m in the year 2015-16 .	J-form and log sheets were sent to this office on 13.04.2016.
1b	Exploration over lease area for geological axis 1 or 2		Entire area is explored under G-1 level.	Total four core holes were drilled in the year 2015-16. Total lease area is 1.19 ha.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposals were made in the approved document.	Drilling was carried out by lessee himself. And expenditure is approximately one lakh.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	one borehole was proposed in the year 2011-12 and Proposal was not made in grid pattern.	Entire area is explored under G-1 level of exploration.	Total four core holes were drilled in the year 2015-16. Total lease area is 1.19 ha.
1e	Balance reserve as on 01/04/20		Reserves as on 01.04.2016. Classification UNFC code      Quantity in tons. Proved Reserves 111                      258251 Pre-feasibility resources 222 265838 Inferred resources 333                      146199	Less has drilled four corebore holes during 2015-16 based on that reserves/resources may be increased. The re-estimation based on drilled is yet to be done.
1f	General remarks of inspecting officers on geology, exploration etc		The area is very small in size (1.194 Ha) and entire area is explored under G-1 level with four coreholes to a depth of 20m each.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	For the year 2015-16 it was proposed to work between the co-ordinates 50N,75E to 25N,65E and 35N,155E to 15N,150E.	The workinh has been carriedout as per the proposal.	As on date the entire area is broken.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	One bench was proposed in ore for the year 2015-16.	Working has been carriedout as per the proposal.	Total three benches were developed and all are in ore only.
2c	Stripping ratio or ore to OB ratio	1:0.05	No waste generation was reported for the year 2015-16.	
2d	Quantity of topsoil generation in m3	No proposal	No top soil is removed in the present plan period.	
2e	Quantity of overburden generation in m3	It was proposed to handle 730cub.mtr of intercalated waste in the year 2015-16.	No OB was handled in the year 2015-16.	During the plan period Some quantity of OB was handled in the North-western part of the lease area and same has been backfilled in the south-eastern part of the lease area for which no proposal were made in the approved plan. Violation is pointedout for the same.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		In Northern part of the lease area working has been carried out in the 7.5mtr safety zone, where there is no such proposal in the approved document. Total three benches were developed and all are in ore only.	Violation is pointed out for working in 7.5mtr safety zone.

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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 pit.	One pit	
3b	Quantity of ROM mineral production proposed	No proposal for the year 2016-17.	Nil	The last approved scheme was valied upto 31.03.2016 and no dcument was approved for 2016-17 onwards. violation under 12(3) of MCDR 1988 is pointed out for non submission of the document for approval within time.
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	
3d	Quantity of mineral reject generation	Nil	Nil	The approved scheme of mining is expired on 31.03.2016, so mine is not operating from 01.04.2016 onwards.
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 was generated in the last approved period.
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	The mine is not operating from 01.04.2016 onwards.

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 carried out as per the proposal.	Lessee has tie up with the explosive suppliers.
3k	Provision of mining machineries in mineral benches	Manual	Manual	
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 1.16 ha is covered under excavation upto 31.03.2016..	The mine is not working from 01.04.2016 onwards.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	1:0	In the year 2015-16 no waste was generated.
3o	Total area put in use under different heads at the end of year		Pit-1.16ha and Roads-0.034	
3p	Production of ROM mineral during the last five year period as applicable	2016-17 Nil 2015-16 25000 tons 2014-15 25000 tons 2013-14 25000 tons 2012-13 25000 tons	2016-17 Nil 2015-16 25000 tons 2014-15 24800 tons 2013-14 23440 tons 2012-13 17286 tons	

3q	General remarks of inspecting officers on method of mining etc.	Manual	The mine is working manually and most of the area is broken up. The benches were irregularly developed. The mining operations were carried out in 7.5mtrs safety zone also.	Violation is pointed out for working in 7.5mtr safety zone where there is no such proposal in the approved document.
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#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Dumping of OB was proposed outside the lease area.	Dumping was not made as per the proposal. The OB which was generated in the approved plan period was used for backfilling in the southern part of the lease area.	Violation is pointed out for the same.
4b	Location of topsoil, OB and mineral reject dumps	OB dumping was proposed outside the lease area.	Duming of OB was made in the southern part of the lease area in the form of backfilling. No top soil and mineral reject was generated in the plan period.	
4c	Number of dumps within lease area and outside of lease area	One outside the lease area.	No dump was formed as per the proposal. The OB generated is backfilled in the southern part of the lease area.	Violation is pointed out for the same.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Mentioned as outside the lease.	Nil	Dumping was made in southern part of the lease area in the form of backfilling.
4e	Number of active and alive dumps.	One	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.	Nil	Nil	

4i	Length of Retaining wall or garland drain all along dumps	NA	NA
4j	Number of settling ponds	NA	NA
4k	Specific comments of inspecting officer on waste dump management		The dumping was not made as per the proposal and whatever rejection generated in the plan period is backfilled in the southern part of the lease area.

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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 proposals for backfilling.	Some portion has been backfilled in the southern part of the lease area.	Violation is pointedout for the same.
5b	Area under backfilling of mined out area	Nil	approximately 0.006ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	No top soil was generated in the approved plan period.	
5d	Total area fully reclaimed and rehabilitated	Nil	About 0.006ha.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	About 0.006 ha of the lease area was backfilled in the southern part of the lease area. Where there is no proposal for the same in the approved document.	

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Progressive Mine Clousre Plan:

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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	
6c	afforestation done (ha).	In the approved plan there was a proposal to to plant 25 saplings/year.	Plantation was not done as per the proposals.	Violation is pointed out for the same.
6d	No. of saplings planted during the year	25	Nil	Violation is pointedout for the same.
6e	Cumulative no .of plants	125 during the approved plan period.	very less in number.	Only 10-15 plants were seen during the inspection.
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Nil	Some portion is backfilled in the southern part of the lease area approximately 20-25mts(l) x 2-3mts(w) and 5-6mtr(d)	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Nil	Nil
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
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)		The mine is very small in area and operating Manually and production per annum is 25000 tons only, hence impact on environment is negligible.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The plantations were not made as per the proposals.	Violation is pointed out for the same.
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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 25474 tons of cement grade ore is despatched in the year 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	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
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	Entire area is brokenup.

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8b	Concurrent use or storage of topsoil	Nil	No topsoil generation. Entire area is brokenup.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dump area for overburden was proposed outside the lease area.	Backfilling was made in the southern part of the lease area.	violation is pointed out for the same.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	some portion was backfilled in the southern part of the lease area.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Some portion of the pit is backfilled.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	There was a proposal to plant 125 plants during the scheme period.	The plantation was not made as per the proposal and survival rate is also less than 30%.	Violation is pointedout for the same.
8g	Survival rate		Less than 30%.	
8h	Water sprinkling on roads to control airborne dust	Nil	Manual mining and chance of airborne dust is negligible.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Entire area is brokenup. And benches are systematically formed. The plantation was not made as per the proposal and survival rate is also very less. Lessee is directed to take care of plantation and careing in future.	

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## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Lessee is regularly submitting monthly and annual returns.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	In the annual returns submitted for the year 2014-15, mining enginner was mentioned as Parameswaraiah N and Geologist incharge Myageri S.K.	It is observed that Myageri S.K. is the technical consultant of the lessee and he is not appointed by the lessee either full time or part time. So lessee has informed not to mention his name in the returns under geologist in charge.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	In the annual returns submitted to this office for the year 2014-15 the lease area utilization as at the end of year is shown as zero.	During field visit it is observed that most of the lease area is brokenup. Lessee has advice to rectify the same.	
9d	Scrutiny of Annual return on afforestation	In the annual returns submitted for the year 2014-15, it is mentioned that total 870 saplings were planted within the lease area and survival rate is 90%.	During inspection the plants were very less in number and survival rate is also less than 30%. Lessee has advise to rectify the same and violation is also pointed out.	
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	In the annual return submitted for the year 2014-15 opening stock was mentioned as 3324.990 tons , production 24800.00 tons and closing stock 13619.00 tons.	During inspection it was observed that the ROM stock was very less and lessee informed that most of the ore is despatched.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	In the annual return submitted for the year 2014-15 sale value is shown minimum Rs, 190/ton and maximum of Rs, 250/ton. Ex.mine price Rs, 280.00 and cost of production as Rs,181.50/ton	Lessee has not produced any sale invoice for cross check. Sale value is shown lesser than Ex-mine price.
9h	Scrutiny of Annual return on fixed assets	Nothing was shown in the annual returns filed for the year 2014-15.	No infrastructure and machineries were found in the lease. Lessee is advised to shown land value in future.
9k	Scrutiny of Annual return on mining machineries	Nil	Nil

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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 13(1)	23/05/2016		Rule 13(1)	23/05/2016	
Rule 12(3)	23/05/2016		Rule 12(3)	23/05/2016	
Rule 23E(2)	23/05/2016		Rule 23E(2)	23/05/2016	
Rule 63	23/05/2016		Rule 63	23/05/2016	

**Date :**

**(KALMATA M.K.)**

Indian Bureau of Mines