

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-64/GOA

Mine code : 38KAR26047

- (i) Name of the Inspecting : **SP01**) **SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri. Prabhakar Reddy, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 11/07/2018
- (v) Prev.inspection date : 22/09/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **LOKAPUR (ML 2390)**
- (b) **Registration NO.** :
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BAGALKOT
- Village : Lokapur
- Taluka :
- Post office :
- Pin Code : 01
- FAX No. :
- E-mail : raikarmines@gmail.com
- Phone : 9480533560
- (f) **Police Station** : Lokapur
- (g) **First opening date** : 13/04/2003
- (h) **Weekly day of rest** : TUE
2. **Address for correspondance** : Lokapur Limestone Mine of M/s Vadiraj Minerals
AT-Lokapur Tq-Mudhol
Dist-Bagalkot , Karnataka-587122
3. (a) **Lease Number** : KAR1476
- (b) **Lease area** : 4.85
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 12/03/2023
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : C.G.RAIKAR
 C/o Vijayalaxmi Jewellers
 Vallabhai Chowk Bagalkot
 BAGALKOT KARNATAKA
 Phone:0835-420456
 FAX :

Owner : C.G.RAIKAR
 C/o-Vijayalaxmi Jewellers
 Vallabhai Chowk Bagalkot
 BAGALKOT KARNATAKA
 Phone: 08354-222126
 FAX :

Mining Engineer

Name : Bandi Prabhakar Reddy, Full Time
 Qualification : Diploma in Mining Engg & Second Class Ma
 Appointment/ : 01/01/2014
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	13/01/2003
		Modif.of approved Mining Plan	24/10/2006
		Mining Scheme rule 12 MCDR1988	09/10/2009
		Mining Scheme rule 12 MCDR1988	20/11/2013
		Modif.approved Mining Scheme	02/06/2016
		MP modif under 17(3) MCR 2016	31/01/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	4HOLES	6Holes	
1b	Exploration over lease area for geological axis 1 or 2	nil	nil	Area explored under G1 scale.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	not proposed	nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	not proposed	nil	area covered under G1 level
1e	Balance reserve as on 01/04/20	2.132MT	2.133MT	Reserve re-estimated as per the exploration results.
1f	General remarks of inspecting officers on geology, exploration etc			Reserve re-estimated as per the exploration results and updated in the approved MMP.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	within	as per the proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil proposal and intercalated waste considered as OB	No top soil proposal and intercalated waste considered as OB	
2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.04	variation due to variation of morrum intercalated in the ore body.
2d	Quantity of topsoil generation in m3	not proposed	Nil	

2e	Quantity of overburden generation in m3	5000M3	2000M3	Intercalated waste.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			waste handling is less and mainly for handling of Intercalated waste.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	
3b	Quantity of ROM mineral production proposed	90000T	80380T	Annual returns for the year 2017-18 has not submitted till date of inspection. The data furnished based on the data provided by mines manager &MMP.
3c	Recovery of sailable/usable mineral from ROM production	95%	as proposed	
3d	Quantity of mineral reject generation	nil	nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not available	Nil	Threshold value of CaO 35%
3f	Quantity of sub grade mineral generation.	Not proposed	nil	
3g	Grade of sub grade mineral generation	N A	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	yes	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	nil	
3j	Provision of drilling and blasting in mineral benches	yes	yes	
3k	Provision of mining machineries in mineral benches	yes	yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5-7M height	Some places marginally high as proposed.	Advice to maintained as proposed.
3m	Total area covered under excavation/pits	3.59ha	3.59ha	cummulative area
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0.04	
3o	Total area put in use under different heads at the end of year		4.39ha cummulative	
3p	Production of ROM mineral during the last five year period as applicable	2013-14 -0.9 LT 2014-15-0.9 LT 2015-16-0.9LT 2016-17-0.9 LT 2017-18 - 0.9LT	2013-14 -0.308 LT 2014-15-0.89 LT 2015-16-0.9LT 2016-17-0.9 LT 2017-18-0.80LT	
3q	General remarks of inspecting officers on method of mining etc.			Advice to maintain the benches as approved.

Solid Waste Management - Dumping:

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

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal of top soil	Top soil Nil Intercalated waste generation in small scale.	
4b	Location of topsoil, OB and mineral reject dumps	No roposal	Nil	
4c	Number of dumps within lease area and outside of lease area	one within	yes	very small quantity.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within	yes	
4e	Number of active and alive dumps.	one	yes	
4f	Number of dead dumps.	-	nil	
4g	Number of dumps established.	-	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Nil	Dump quantity very less and used for safety bund maintaining.
4i	Length of Retaining wall or garland drain all along dumps	Nil	nil	most part of waste used for safety bund maintenace.
4j	Number of settling ponds	-	nil	
4k	Specific comments of inspecting officer on waste dump management			Waste handling were observed very less and most part as proposed used for bund and road maintainence.

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.	Not proposed for Backfilling	Not proposed for Backfilling	Not proposed for Backfilling. Mineral not exhausted from the pit.

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	nil	
5d	Total area fully reclaimed and rehabilitated	nil	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Not proposed for Backfilling and reclamation as the mineral has not exhausted from the pit.

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).	Not submitted	Not submitted till date of inspection.	violation pointed out.
6b	Area available for rehabilitation (ha) .	nil	nil	Not proposed for Backfilling. Mineral not exhausted from the pit.
6c	afforestation done (ha).	along safety barrier	yes	
6d	No. of saplings planted during the year	50nos.	300 nos.	as given in the approved MMP. Growth rate of plants were observed to be less.
6e	Cumulative no .of plants		1070nos.	
6f	Any other method of rehabilitation	nil	nil	
6g	Cost incurred on watch and care during the year			

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	nil	nil	Not proposed for Backfilling. Mineral not exhausted from the pit.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	nil	nil	Not proposed for Backfilling. Mineral not exhausted from the pit.
6p	Compliance of environmental monitoring (core zone and buffer zone)		given	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Not proposed for Backfilling. Mineral not exhausted from the pit. Growth rate of plantations were observed to be less. Yearly report of PMCP not submitted till date of inspection. Violation pointed out.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM	ROM to adjacent lease.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical	
7c	Different grade of mineral sorted out at mines.		Above THV	

7d	Any beneficiation process at mines .	nil	nil	Crushing and screening plant adjacent to the lease installed.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Used above THV by blending.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	Nil	However, if available to be used for plantaion towards green belt dev.
8b	Concurrent use or storage of topsoil	nil	nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Intercalated waste	yes	generation in very small scale.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	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)		1070 nos. cumm.	as per the approved MMP.

8g	Survival rate	75%	
8h	Water sprinkling on roads to control airborne dust	yes	water tanker used.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Growth rate of plantation need to be improved.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly reported submitted. AR 2017-18 not submitted till DOI	AR 2017-18 not submitted till DOI	Violation pointed out for non submission of AR.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual returns not submitted for 2017-18 till DOI. therefore,Scrutiny of monthly returns March 2018 carried out.	Mines manager and Mining Geologist were present in the mines while inspection.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Scrutiny based on approved MMP.	Pit size 3.59 Ha cummulative reclamation-Nil Temp dump-0.06ha	
9d	Scrutiny of Annual return on afforestation	AR not submotted till DOI	300nos. of plantation	data based on approved MMP.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Scrutiny of Monthly returns march2018.	Stocks for ROM-Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	As per Monthly returns March 2018.	Ex mine price-487 Rs/T Sale value furnished.	

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
MCDR17	Rule 11(1)	27/07/2018			
MCDR17	Rule 26(2)	27/07/2018			
MCDR17	Rule 45(5)(c)	27/07/2018			

Date :

(SURESH PRASAD)

Indian Bureau of Mines