

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-95/GOA

Mine code : 38KAR26077

- (i) Name of the Inspecting : **K07**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Basavraj Patil, mine supervisor
Official with
Designation
- (iv) Date of Inspection : 04-FEB-20
- (v) Prev.inspection date : 18-OCT-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **LIMESTONE MINE (M.L.NO.2**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : KARNATAKA
District : BAGALKOT
Village : Lokapur
Taluka :
Post office : Lokapur
Pin Code : 122
FAX No. : 08350-240922
E-mail : hvchikkud@gmail.com
Phone : 9820107542
- (f) Police Station : LOKAPUR
- (g) First opening date : 21-OCT-09
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE: LOKAPUR, TQ: MUDHOL
correspondance : DIST: BAGALKOT
KARNATAKA
3. (a) Lease Number : KAR1565
(b) Lease area : 3.31
(c) Period of lease : 20
(d) Date of Expiry : 31-DEC-28
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : GANGAVVA A PATIL
 SRINIVAS MINERALS AT & POST
 : LOKAPUR TQ: MUDHOL
 BAGALKOT KARNATAKA
 Phone:
 FAX :

Owner : GANGAVVA A PATIL
 M/S SRINIVAS MINES &
 MINERALS AT & P.O.
 LOKAPUR, TQ: MUDHOL
 BAGALKOT KARNATAKA
 Phone:
 FAX :

Manager

Name : Shri N F Muttanwar
 Qualification : Mine Mate & Permit Manager
 Appointment/ : 01-NOV-13
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	27-NOV-06
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	08-NOV-11
	:	Mining Scheme rule 12 MCDR1988	01-AUG-14

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal in 2018-19	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1	G1 acheived.	
1e	Balance reserve as on 01/04/20		2.3 million tonnes	As on 01.04.2019
1f	General remarks of inspecting officers on geology, exploration etc		Entire mineralized area is explored under G1 stage. Lessee has carried out 12 nos. of DTH holes and 6 nos. of core boreholes in the ML area so far.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	From section nos. A-A' to C-C', N 50 to N150, E 50 to E 200	No change in development location.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed	Found to be maintained	
2c	Stripping ratio or ore to OB ratio	1: 0.05	1: 0.05	
2d	Quantity of topsoil generation in m3	No proposal	No top soil generation in 2018-19.	
2e	Quantity of overburden generation in m3	850 m3	850 m3	OB waste is mainly consists of intercalated waste; BD 2.0 t/m3.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No deviation in respect of mine development was observed during the course of inspection dated 04.02.2020.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed	Single pit	Dimension of existing pit was: 170m x 120m x 12m
3b	Quantity of ROM mineral production proposed	54,737 tonnes	34,000 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	95% proposed	95%	
3d	Quantity of mineral reject generation	No proposal	No mineral reject generation in 2018-19	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not applicable.	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual mining proposed	Manual mining	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal given	Nil	
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting proposed	Jack hammer drilling and blasting by using slurry and ANFO.	

3k	Provision of mining machineries in mineral benches	No proposal	Nil	Manual mining operation
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m bench height proposed	Average 4-5m bench height maintained in ore.	Violation of Rule 11(1) is issued to the lessee dated 24.02.2020
3m	Total area covered under excavation/pits	2.55 Ha.	2.04 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.05	1: 0.05	OB waste is mainly consists of intercalated waste.
3o	Total area put in use under different heads at the end of year	Mining: 2.5 Ha. Dump: 0.15 Ha. Infrastructure : 0.004 Ha. Roads: 0.12Ha. Green Belt: 0.44 Ha.	Mining: 2.04 Ha. Infrastructure: 0.004 Ha. Roads: 0.09Ha. Green Belt: 0.42 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 54,737 2015-16: 54,737 2016-17: 54,737 2017-18: 54,737 2018-19: 54,737 (in tonnes)	2014-15: 3,500 2015-16: 52,000 2016-17: 52,900 2017-18: 65,860 2018-19: 34,000 (in tonnes)	
3q	General remarks of inspecting officers on method of mining etc.		As submitted by the lessee that deviation in mine production during 2018-19 was mainly due to lack of demand of ore in open market. Violation of Rule 11(1) is issued to the lessee dated 24.02.2020 due to the non-maintaining the average height of 3m for working benches.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Generated waste was proposed for construction of safety bund and remaining waste was proposed to dump at western side of the ML area.	Generated waste was utilized for construction of safety bund and repairing of mine road.	No top soil and mineral reject generated during 2018-19
4b	Location of topsoil, OB and mineral reject dumps	Western side of the ML area.	OB utilized to make safety bund along western side of the ML boundary as per proposal.	
4c	Number of dumps within lease area and outside of lease area	Within ML area: 01 Outside ML area: Nil	Nil within and outside ML area.	Generated waste was utilized for construction of safety bund and repairing of mine road.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Nil	
4e	Number of active and alive dumps.	01 active dump proposed.	Nil as generated waste was utilized for construction of safety bund and repairing of mine road at western side of the ML area.	
4f	Number of dead dumps.	No proposal	Nil	
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Formation of safety bund proposed along the ML area.	Safety bund constructed as per proposal.	
4i	Length of Retaining wall or garland drain all along dumps	120m of retaining wall proposed during five years scheme period.	Retaining wall constructed along the ML boundary.	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management		Generated waste was utilized to make safety bund along the ML boundary.	

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 as the mine pit was not matured for backfilling.	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mine pit was not matured for backfilling since mineral persists at the bottom of mine workings.	

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).	Proposed	Submitted for F.Y. 2018-19.	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.110 Ha.	0.120 Ha.	
6d	No. of saplings planted during the year	50 nos.	250 nos. within ML area.	
6e	Cumulative no .of plants	Not specified.	Apprx. 600 nos. within ML area along the safety barrier.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	Not specified.	Rs. 10,000/-	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed to be carried out twice a year.	Carried out on half yearly basis by the lessee.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		The mine was working manually and impact on environment is negligible. However monitoring was carried out as per schedule through approved third party.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch after manual sorting and sizing proposed.	ROM dispatch after manual sorting and sizing.	38449.7 tonnes of cement grade ore was despatched in the year 2018-19.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Proposed for all +34% CaO.	No change.	Average quality obtained from the mine during 2018-19 was of cement grade limestone.
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		No deviation in respect of mineral conservation was observed during the course of inspection dated 04.02.2020.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seperate removal and utilization proposed.	No top soil generation during 2018-19.	

8b	Concurrent use or storage of topsoil	Proposed.	Nil during 2018-19.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed for OB waste.	Generated waste was utilized to make safety bund as per proposal.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed during conceptual stage.	Not applicable since mine pit was not matured for backfilling.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed.	Apprx. 600 nos. saplings were planted within ML so far along the safety barrier.
8g	Survival rate	Not specified.	60 to 70%
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling arrangement on haul road made.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around mines area is good and impact on environment due to mining operation is very less due to small scale manual mining operation.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns		M.R. Submitted up to Dec. 2019 and A.R. Submitted up to 2018-2019.	During the course of inspection dated 04/02/2020 it was found that AR 2018-19 was not submitted by the lessee and violation of rule 45(5) was issued dated 24.02.20. Later, while preparing MCDR report it was found that AR 2018-19 submitted by the lessee.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Nil Geologist: R. Natarajan	No mining engineer and geologist were found appointed as on the date of inspection.	Violation of rule 55(1)(3) issued to the lessee dated 24.02.2020.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining: 2.57 Ha. Infrastructure & Roads: 0.07 Ha.	Mining: 2.04 Ha. Infrastructure: 0.004 Ha. Roads: 0.09Ha. Green Belt: 0.42 Ha	
9d	Scrutiny of Annual return on afforestation	250 nos. within ML area	No change.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generation.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: Nil Graded ore (Cement grade) closing stock: 10041.508 tonnes	Actual also same at that time.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price: Rs. 286.00/ tonne Production cost: Rs. 185.00/ tonne	Appear to be correct.	
9h	Scrutiny of Annual return on fixed assets	Rs. 746,000/-	Appear to be correct	

9k Scrutiny of 01 no. of Air No change, Manual mining
Annual return on Compressor. operation.
mining
machineries

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	24-FEB-20			
MCDR17	Rule 11(4)	24-FEB-20			
MCDR17	Rule 28(1)	24-FEB-20			
MCDR17	Rule 33	24-FEB-20			
MCDR17	Rule 35(2)	24-FEB-20			
MCDR17	Rule 45(5)(c	24-FEB-20			
MCDR17	Rule 55(1)(3)	24-FEB-20			

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines