

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BGM/LST-26/GOA

Mine code : 38KAR02032

- (i) Name of the Inspecting : **K02**) **KALMATA M.K.**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Chekkennavar, Lessee.
Official with
Designation
- (iv) Date of Inspection : 14/02/2018
- (v) Prev.inspection date : 05/09/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **YADWAD LIMESTONE MINE (M.**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : KARNATAKA
District : BELGAUM
Village : Yadwat
Taluka :
Post office : Yadwat
Pin Code : 591136
FAX No. : 08334 279687
E-mail : chekkennavarminerals@gmail
Phone : 9449248221
- (f) Police Station : YADWAD
- (g) First opening date : 23/04/2010
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE & P.O YADWAD
correspondance TQ: GOKAK
DIST: BELGAUM
3. (a) Lease Number : KAR1591
(b) Lease area : 4.86
(c) Period of lease : 20
(d) Date of Expiry : 14/01/2030
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : CHEKKENAVAR MINERALS
AT & P.O. YADWAD, TQ: GOKAK
BELGAUM KARNATAKA
Phone:
FAX :

Owner : SHRI MALLAPPA S.CHEKKENAVAR
M/S CHEKKENAVAR MINERALS AT
&P.O. YADWAD,TQ:GOKAK DIST:
BELGAUM BELGAUM KARNATAKA
Phone:
FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	07/07/2008
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	08/06/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was a proposal to drill six boreholes in the year 2015-16.	Lessee has drilled eight boreholes in the year 2017-18. However intimation in the form I is not sent to this office so far.	violation is pointedout for the same.
1b	Exploration over lease area for geological axis 1 or 2	Entire lease area.	Entire lease area is explored under G-1 level.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Geotech Ltd, Nagpur, Expenditure is approximately 2.25 to 2.50Lakhs.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Entire area is explored under G-1 level.
1e	Balance reserve as on 01/04/20		Reserves - 264751 tons Remaining resources - 1254443 tons	Lessee has recently drilled 8 boreholes and samples were not sentfor analysis. Once anlysis is done, reserves will be re-estimated.
1f	General remarks of inspecting officers on geology, exploration etc		Lessee has recently drilled 8 boreholes and explored entire area under G-1 level of exploration. However analysis of the boreholes samples was not done so far. reserves will be re-estimated once analysis is completed.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	In the year 2017-18 there was a proposal to work between sections C-C' to G-G' and depth upto 570m.	Working has been not carriedout as per the proposal.	Violation is pointedout for the same.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches were proposed in ore only.	Benches were formed in ore only.	
2c	Stripping ratio or ore to OB ratio	1:0.07	1:0.04	The production was less than the proposal and recover was more.
2d	Quantity of topsoil generation in m3	90 inthe year 2016-17	50	working has been carriedout in broken up area only.
2e	Quantity of overburden generation in m3	1233	700	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The working has been not carriedout as per the proposal and benches were not made as per the proposal and violation is pointed out for the same.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	31979 tons in the year 2017-18	20700 tons (Upto Jan-18)	
3c	Recovery of sailable/usable mineral from ROM production	90%	95%	
3d	Quantity of mineral reject generation	1599 tons	Nil	No mineral reject was generated

3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
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	yes	As per the proposal.	
3k	Provision of mining machineries in mineral benches	Nil	Nil	Mine is working manually.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3 mtr height was proposed.	3 mtr height was suitable for method of mining.	Height of the bench was not maintained as per the proposal and violation is pointed out for the same.
3m	Total area covered under excavation/pits		About 1.6 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.07	1:0.04	
3o	Total area put in use under different heads at the end of year		Area under mining-1.6Ha, Area under dumps-0.08ha, infrastructure-0.04ha	

3p	Production of ROM mineral during the last five year period as applicable	2017-18 31979 tons 2016-17 31072 tons 2015-16 29711 tons 2014-15 35288 tons 2013-14 30744 tons	2017-18 20700 tons (upto Jan 18) 2016-17 27600 tons 2015-16 16500 tons 2014-15 11500 tons 2013-14 20000 tons
3q	General remarks of inspecting officers on method of mining etc.	Working has benn not carriedout as per the proposal and bench height was not maintained as shown in the production and development plans. So violation is pointed out for the same.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	yes separate dumping of topsoil and OB was proposed.	Dumping of topsoil and waste was made separately.	
4b	Location of topsoil, OB and mineral reject dumps	It was proposed to dump OB in the 7.5 mtr safty zone Near BP-B.	The dumping was not made as per the proposal.	Violation is pointed out for the same.
4c	Number of dumps within lease area and outside of lease area	Dumping was proposed in the 7.5 mtr safety zone.	four to five small dumps were made dump heigt was less than 2.00mtr	Duming was not made as per the proposal and violation is pointedout for the same.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)		Within UPL	
4e	Number of active and alive dumps.	dumping was proposed along the 7.5mtr safetyzone.	four to five small dumps.	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.		four to five small dumps	

4h	Whether Retaining wall or garland drain all along dumps are there.	yes	Since the dumps are very small and height was less than 2.00mtrs, retainng walls are constructed along the 7.5 mtr safety zone.
4i	Length of Retaining wall or garland drain all along dumps		120mtr x 0.5mtr x 0.5mtr
4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management		The duming of waste was not made as per the proposal and violation is pointed out for the same.

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.		Mineral is not extracted upto the proved depth.	No backfilling is proposed 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)		Some topsoil was used for plantation in the safety zone.	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The mineral is not extracted upto the proved depth and no bacckfilling is proposed in the present plan period.	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	1st july of every year.	Yearly report on PMCP is not submitted for the year 2016-17 and violation is pointed out for the same.
6b	Area available for rehabilitation (ha) .	Nil	Nil
6c	afforestation done (ha).	0.07ha	0.09Ha
6d	No. of saplings planted during the year		500
6e	Cumulative no .of plants		Approximately 800.
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	Nil
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 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 operating manually and impact on environment is negligible. However lessee is regularly monitoring air, water and sound and all the parameters are within permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Plantation was made more than the proposal. Lessee has not submitted annual report on PMCP for the year 2016-17 and violation is pointed out for the same.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		About 27847 tons of cement grade ore was despatched in the year 2016-17	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	

7c	Different grade of mineral sorted out at mines.	Only cement grade.
7d	Any beneficiation process at mines	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Lessee is blending low grade ore with high grade as per requirement of the buyor.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes	Topsoil was removed separately and some quantity was utilized for plantation and remaining is stocked separately for future use.	
8b	Concurrent use or storage of topsoil		Topsoil was removed separately and some quantity was utilized for plantation and remaining is stocked separately for future use.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)		Waste was dumped separately. Some quantity is used for making bund in the 7.5 mtr safety zone and remaining dumped within the lease area.	
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)		500 plants were planted in the year 2016-17
8g	Survival rate		70 to 80%
8h	Water sprinkling on roads to control airborne dust		Lessee is using water tanker for dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Land is degraded by mining. Retaining wall is constructed in the 7.5mtr safety zone and plantation is made along the 7.5mtr safety zone. Waste was not dumped properly and violation is pointed out for the same.

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	Mining engineer and Geologist was shown as nil and Manager is shown as Shri M.N.Shiragumpi	Lessee has appointed Shri Chandrasekar as part time geologist.	Violation is pointed out for appointment of Mining engineer.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Area under mining- 1.6ha, area under waste disposal-0.08Ha and infrastructure-0.04Ha	

9d	Scrutiny of Annual return on afforestation	500 plants were shown in the annual returns submitted for the year 2016-17..	About 350 plants were observed during inspection.
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	About 5482 tons of cement grade ore was shown as closing stock.	Lessee has shown production and stock positions both in ROM and also under grade wise processed ore. Lessee is doing only size separation manually and no grade wise separation is there so MMS division has referred back the annual returns 2016-17 to the lessee for correction.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value is shown between Rs 357 to 481/ton , Ex mine price-Rs-274/ton and cost of production Rs-186/ton.	
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset is shown as Rs-9600000	Land value is shown as Rs-9600000.
9k	Scrutiny of Annual return on mining machineries	Only air compressor is shown.	The mine was not working on the day of inspection and no machineries were found. However since the mine is working manually lessee is not using any machineries for mining activity.

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)	01/03/2018			
MCDR17	Rule 26(2)	01/03/2018		30/05/2018	
MCDR17	Rule 27(1)	01/03/2018		30/05/2018	
MCDR17	Rule 27(2)	01/03/2018		30/05/2018	
MCDR17	Rule 31(4)	01/03/2018			
MCDR17	Rule 47(a)	01/03/2018			
MCDR17	Rule 48	01/03/2018			
MCDR17	Rule 55(1)(3)	01/03/2018			

Date :

(KALMATA M.K.)

Indian Bureau of Mines