

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-91/GOA

Mine code : 38KAR26071

- (i) Name of the Inspecting : **K02**) **KALMATA M.K.**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Veerendra R Mathad, Lessee
Official with
Designation
- (iv) Date of Inspection : 06-MAR-19
- (v) Prev.inspection date : 03-DEC-14

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MUDDAPUR (M.L.NO.2589)**
- (b) **Registration NO.** : **IBM/865/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : KARNATAKA
- District : BAGALKOT
- Village : Muddapur
- Taluka :
- Post office : Lokapur
- Pin Code : 22
- FAX No. :
- E-mail : rkt.rkm60@yahoo.com
- Phone : 9845531062
- (f) Police Station : LOKAPUR
- (g) First opening date : 30-JAN-09
- (h) Weekly day of rest : SUN
2. Address for : AT & PO- LOKAPUR-587122
correspondance : TQ-MUDHOL
DIST- BAGALKOT, KARNATAKA
3. (a) Lease Number : KAR1564
- (b) Lease area : 4.85
- (c) Period of lease : 20
- (d) Date of Expiry : 25-MAY-34
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : VEERENDRA R. MATHAD
Bin R.K.Mathad Near
Daneshwari Math Lokapur,
Tq- Mudhol BAGALKOT
KARNATAKA
Phone:09448127238
FAX :

Owner : V.R.MATHAD
AT & PO- LOKAPUR TQ-MUDHOL
BAGALKOT KARNATAKA
Phone:
FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	01-FEB-08
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	05-MAY-14
		MP review under 17(1) MCR 2016	25-JAN-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed in the year 2017-18 .	No exploration was carried out in the year 2017-18.	Lessee has drilled six boreholes to a total depth of 209 mtrs in the year 2015-16.
1b	Exploration over lease area for geological axis 1 or 2	No exploration was proposed in the year 2017-18.	Nil	The entire mineralized area is explored under G-1 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration was proposed in the year 2017-18.	Nil	However lessee has drilled 06 borehole in the year 2015-16 and total expenditure was Rs-2,64,000.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Entire mineralized area is explored under G-1 level.	However lessee has proposed 02 coreholes in the present plan period i.e, b/e 2018-19 to 2022-23, to confirm the dolomite area.
1e	Balance reserve as on 01/04/20		Reserves as on 01.04.2018 Limestone Proved Mineral Reserves (111) 2503655 tonnes Pre-feasibility M Resources (221) 1274396 tonnes Total 3778051 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The lease area is well exposed with the limestone in the working pit. The deposit is uniform in nature. Lessee has explored the entire mineralized area under G-1 level.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	There was a proposal to work between the co-ordinates-N-1791286 to N-1791432 to E-531077 to E-531194 in the year 2018-19.	Working has been carried out within the proposed area.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches were proposed in ore only.	Benches were made in ore only.	OB is found in the form of intercalated clay only and thickness of the topsoil is about 0.5 to 1.00mtr. No topsoil was proposed and handled in the year 2018-19.
2c	Stripping ratio or ore to OB ratio	1:0.05 in the year 2018-19.	1:0.02	Production achieved upto feb 2019 was less than 50% only and recovery was more. Further working has been carried out in the broken up area only. So less OB was handled in the year 2018-19 and stripping ratio is also less than the proposal.
2d	Quantity of topsoil generation in m3	No topsoil was proposed in the year 2018-19.	No topsoil was handled in the year 2018-19 upto feb 2019.	
2e	Quantity of overburden generation in m3	1022.8	220	Production achieved upto feb 2019 was less than 50% only and recovery was more. Further working has been carried out in the broken up area only. So less OB was handled in the year 2018-19.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Due to market/demand scenario the production is less than the proposal. Against the proposed quantity of 48575 tonnes, only 19419 tonne ore was produced upto February 2019 and working has been carried out in the already broken up area only. So OB handled was very less up to February 2019.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	48575 tonnes in the year 2018-19.	19419 tonnes (up to February 2019).	Due to market/demand scenario the production is less than the proposal.
3c	Recovery of sailable/usable mineral from ROM production	95%	98%	Mining has been carried out in the existing pit only and production was also 50% less than the proposal. So less quantity of waste was handle and recovery was also more.
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	Nil	Nil	

3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanised	Lessee is doing dry crushing and screening.
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	Jack hammer drilling is proposed.	Lessee is using jack hammer drilling and blasting with slurry explosive initiated with electric detonator.	
3k	Provision of mining machineries in mineral benches	Nil	Nil	The mine is working manually and no machineries were observed during the time of inspection. The mine was not working on the day of inspection.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3.00mtr	Bench height was maintained as per the proposal.	
3m	Total area covered under excavation/pits	0.5 ha in the year 2018-19	0.2ha in the year 2028-19	working has been carried out
				The working has been carried out in the already broken up area only. Total area covered under pit is about 1.4Ha.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	1:0.02	

3o	Total area put in use under different heads at the end of year		Area under mining- 1.40Ha, Infrastructure- 0.05Ha, Roads-0.01 Ha, Mineral stock-0.20Ha.
3p	Production of ROM mineral during the last five year period as applicable	Limestone 2014-15 33800 tonnes 2015-16 33072 tonnes 2016-17 33150 tonnes 2017-18 34320 tonnes 2018-19 48575 tonnes	Limestone 2014-15 10000 tonnes 2015-16 33072 tonnes 2016-17 33072 tonnes 2017-18 33072 tonnes 2018-19 19419 tonnes (Up to Feb 2019) 2017-18
3q	General remarks of inspecting officers on method of mining etc.		The mine is working manually. Presently mining has been carried out in the broken up area only. The benches were maintained as per the proposal. In the year 2018-19 the production was less than the proposal, so pit is not formed as per the proposal. Working has been carried out within the proposed area only.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No topsoil and mineral reject dump is proposed in the year 2018-19 and OB was proposed for Bund work.	Quantity of OB generated was very less and entire OB was utilized for making bund in the 7.5 mtr safety zone as per the proposal.	

4b	Location of topsoil, OB and mineral reject dumps	No top soil and mineral reject dump was proposed and OB was proposed for making bund in 7.5mtr safety zone.	OB generated in the year 2018-19 was utilized for making bund in the 7.5 mtr safety zone as per the proposal.	
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	OB handled during the year 2018-19 was utilized for making bund in 7.5 mtr safety zone as per the proposal.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No waste dump was proposed in the year 2018-19	Waste generated in the year 2018-19 is utilized for making bund in the 7.5 mtr safety zone.	Major part of the waste generated in the plan period was proposed for making bund in 7.5mtr safety zone and road work. However a few quantity is proposed for duming in the North-Eastern part of the lease area near pillar B.P-B. which is out side the UPL.
4e	Number of active and alive dumps.	No waste dump is proposed in the year 2018-19.	Nil	Major part of the waste generated in the plan period was proposed for making bund in 7.5mtr safety zone and road work. However a few quantity is proposed for duming in the North-Eastern part of the lease area near pillar B.P-B.
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.	One parapet wall proposed in the year 2018-19.	No parapet wall was constructed as per the proposal.	No dump was formed in the year 2018-19 so lessee has not constructed parapet wall as per the proposal. However violation is pointed out for the same.
4i	Length of Retaining wall or garland drain all along dumps	50 mtr	Nil	Violation is pointed out for the same.
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			In the present plan period major part of the waste generated was proposed for making bund in the 7.5 mtr safety zone. In the year 2018-19 the waste generated was very less and entire quantity was utilized for making bund in the 7.5 mtr safety zone as per the proposal and no external dump was made.

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	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)	Nil	Nil	

5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Working has not been reached upto the proved depth and no backfilling and reclamation was proposed in the present plan period.

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).	Before 1st july of every year.	Lessee has submitted annual report on PMCP for the year 2017-18 on 30.10.2018. Data given about plantation for the year 2017-18 is found correct.	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.05ha in the year 2017-18	0.05 ha	
6d	No. of saplings planted during the year	100 during 2017-18	100 saplings were planted.	
6e	Cumulative no .of plants		750 saplings were planted up to 2017-18.	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Rs 4000	Rs 4000	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	The mine is not worked up to proved depth and no voids are available for backfilling in the present plan period.

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 working manually and impact on environment is negligible. However monitoring is carried out as per the schedule through approved third party and reports are maintained.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Lessee has made the plantation as per the proposal in the year 2017-18. Since no dump was formed the retaining wall was not made as per the proposal and violation is pointed out for the same. The mine is operating manually and impact of the mining on environment is negligible. However monitoring is carried out as per the schedule through approved third party and reports are maintained.
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Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		Lessee is dispatching Bf grade and Cement grade ore.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	By dry crushing and screening plant.
7c	Different grade of mineral sorted out at mines.		Bf grade and Cement grade.	
7d	Any beneficiation process at mines .	Nil	Nil	Only dry crushing and screening.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Lessee is doing only dry crushing and screening. Lessee is maintainig different sized material, like +10 mm to -40mm and -10mm size as per the requirement of the buyor. Lessee is also blending lowgrade ore with the high garde ore as per the market requirement.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	No topsoil was removed in the year 2018-19. However the topsoil removed earlier was utilized for plantation in the 7.5 mtr safety zone.
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No dump was proposed for rejects and major part of OB was proposed for making bund in 7.5mtr safety zone.	Quantity of OB generated in the year 2018-19 was very less and entire OB was utilized for making bund in the 7.5 mtr safety zone.	
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	Proved mineral is not exhausted in any part of the lease area. No restoration, reclamation and rehabilitation was proposed in the present plan period.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		About 750 saplings were planted within the lease area.	
8g	Survival rate		Survival rate is 65 to 70%.	
8h	Water sprinkling on roads to control airborne dust		Water tanker mounted tractor is being used for dust suppression. The mine is working manually and generation of airborne dust is negligible.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		About 1.4 ha was degraded by mining. The benches were maintained systematically. No external dump was formed, the OB handled in the year 2018-19 was utilized for making bund in 7.5 mtr safety zone. Plantation was made along the 7.5 mtr safety zone and around mine office . By regular watering survival rate is maintained at 65 to 70%.	

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly returns before the tenth day of every month in respect of the preceding month and Annual return before the 1st day of July each year for the preceding financial year.	Annual returns for the year 2017-18 was submitted by the lessee. However monthly returns for the month of February was not submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	In the annual returns submitted for the year 2017-18, Manager was shown as Mr.Govinda shetty, Mining Enginner and Geologist are shown as nil.	Lessee has not appointed the Mining engineer and Geologist	Violation is pointed out for the same.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining-1.56Ha, Area under waste dump- 0.12ha, Infrastructure -0.6ha, Green belt 0.35Ha.	Area under ming was around 1.4 to 1.5ha, Area under infrastructure was around-0.05Ha, Mineral stock-0.20Ha.	Lessee was advised to give the land use details based on the survey.
9d	Scrutiny of Annual return on afforestation	100	Plantation register was checked and details of the plantaion was found correct.	
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 11050.466 tonnes of limestone of Cement grade was shown as the closing stock at mine head.	On the day of inspection about 4000 tons BF grade and 12000 tons of cement garde ore stock was observed in the mine head.	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	In the annual returns submitted for the year 2017-18, sale value Shown from Rs-416 to 625/tonne, Exmine price-Rs 542/tonnee and cost of production-Rs-313.6/tonne	Some of the invoices are checked and sale value given was found correct.	
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset at top is shown as zero and under net closing balance Rs-12300704 is shown.	Value of fixed asset is shown as zero. Whereas net closing balance is shown as Rs-12300704. Further the details given under Residential head, LIC Housing loan, Inetrest paid etc are not related to this mine.	Violation is pointed out for the same.
9k	Scrutiny of Annual return on mining machineries	Only air compressor is given.	Presently the mine is working manually and machineries were observed during the field visit.	

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)	14-MAR-19			
MCDR17	Rule 31(4)	14-MAR-19			
MCDR17	Rule 45(5) (k	14-MAR-19			
MCDR17	Rule 45(7) (a)	14-MAR-19			
MCDR17	Rule 55(1) (3)	14-MAR-19			

Date :

(KALMATA M.K.)

Indian Bureau of Mines