

**INDIAN BUREAU OF MINES**  
**MINERALS DEVELOPMENT AND REGULATION DIVISION**  
**MCDR inspection report**  
**Goa Regional Office**

- (i) Name of the Inspecting Officer and ID No. : **(K07) KRISHNENDU CHATTERJEE**
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine Official with Designation : S/shri Rakesh B- Mines Manager & V. Pawan Kumar-Geologist.
- (iv) Date of Inspection : 23.10.2024
- (v) Prev. inspection date : 14.05.2023

**PART-I: GENERAL INFORMATION**

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1. (a) **Mine Name** : **HEBBAL Limestone & Dolomite Mine**
- (b) IBM Registration Number under rule 45 of MCDR, 1988 : IBM/5676/2011
- (c) Mine code : 38KAR26060
- (d) Type of Working (Opencast, Underground) : Opencast
- (e) Category (Fully Mechanized, Others or Manual) : Cat. A, OTFM
- (f) Captive/ Non captive : Non-captive
- (g) Postal Address
- Village : Hebbal
- Taluk/Mandal : Mudhol
- District : Bagalkot
- Pin code : 587133
- State : Karnataka
- Post office : Mudhol
- Nearest police station : Lokapur
- Nearest Railway station : Bagalkot
- 2 Address for correspondence : APMC YARD, Mallamma Nagar  
MUDHOL-587313  
DIST-BAGALKOT, KARNATAKA STATE
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3	(a)	Total Lease Area (Ha) with breakup of Non-forest and forest land	:	4.86 Ha. (Non-Forest)
	(b)	Date of Grant of Mining Lease	:	01.07.2005
	(c)	Date of Execution	:	01.07.2005
	(d)	Date of opening of Mine	:	06.12.2006
	(e)	Date of expiry	:	30.06.2055; as per MMDR Amendment Act, 2015
4		Mineral(s) granted in lease and proved for mining	:	Limestone & Dolomite
5	(a)	Name of the lessee, Address, phone, email and fax number	:	KALLAPPA H SABARAD APMC YAR, MUDHOL, BAGALKOT KARNATAKA 587313 Phone:08350280255; 9449579690 Email: minerals.ganga578@gmail.com
	(b)	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	:	KALLAPPA H SABARAD APMC YARD, MUDHOL BAGALKOT KARNATAKA 587313 Phone:08350280255; 9449579690 Email: minerals.ganga578@gmail.com
	(c)	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	:	KALLAPPA H SABARAD
	(d)	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	:	Shri Rakesh B., Hebbal Village, MUDHOL, BAGALKOT DIST KARNATAKA 587133 Date of Appointment: 06.02.2024
	(e)	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	:	Shri Rakesh B., Hebbal Village, MUDHOL, BAGALKOT DIST KARNATAKA 587133 Date of Appointment: 06.02.2024
	(f)	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	:	Shri V. Pawan Kumar, Hebbal Village, MUDHOL, BAGALKOT DIST KARNATAKA 587133 Date of Appointment: 01.05.2024
6		Date of Approval of Mining Plan/Review of Mining Plan/ Modified Mining Plan with five-year period and specific condition in approval letter, if any.	:	Approval of RMP RMP/OTFM-03 (KNT)/GOA/2020-21 Dated 04/01/2021 Period: 2021-22 to 2025-26

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**PART - II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS****Exploration:**

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	G1: 4.86 Ha. G2 & G3: Nil	ML is completely explored under G1 level.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	
1e	Balance reserves as on <u>01.04.2024</u>		Total reserve of Limestone: 1.738 million tonnes. Dolomite reserve: 0.109 million tonnes.	As per the submitted AR of 2024-25.
1f	General remarks of inspecting officer on geology, exploration etc.	The mine is completely explored under G1 stage of exploration by 9 nos. of boreholes; total meterage drilled 285m.		

**Development:**

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	E536030 To E536170 N1790600 To N1790670	E536030 To E536170 N1790500 To N1790580	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Proposed in Ore bench	Carried out as per proposal	No separate OB benches are present.
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.09	Previous year backlog OB handling carried out

in F.Y. 2023-  
24

2d	Quantity of topsoil generation in m3	No proposal	Nil
2e	Quantity of overburden generation in m3	2530	1625
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Working has been not carried out as per the approved proposal; only 42,500 tonnes of ROM handled during F.Y 2023-24 against proposal of 120,000 tonnes. Lessee has submitted draft Modification to the approved Review of Mining Plan document for changes in working area.	

**Exploitation:**

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	Single pit proposed.	Single pit working observed.	
3b	Quantity of ROM mineral production proposed	110,000 tons of Limestone and 10,000 ton of Dolomite	42,500 tonnes Limestone production achieved.	
3c	Recovery of salable/usable mineral from ROM production	95% proposed	91% achieved.	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized, OTFM proposed.	Mechanized, OTFM mine.	

3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil	
3j	Provision of drilling & blasting in mineral benches	Spacing -1.00m Burden - 0.9 m Depth - 2.50m (in 2 stages) It is Proposed to drill by Jack Hammer and blasting by using Slurry Explosive.	Drilling & Blasting operation is being done as per proposal	
3k	Provision of mining machineries in mineral benches	Jack Hammer -2 Compressor - 2 Excavator - 01 Tippers - 2	Jack Hammer - 1 Tractor Mounted Compressor - 1 Tipper - 1 Excavator - 1	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	05 mtr bench height is proposed	Bench Height is 4-5m.	
3m	Total area covered under excavation/pits	3.65 Ha. at the end of F.Y 2025-26.	3.43 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.05	1:0.09	
3o	Total area put in use under different heads at the end of year	4.05 Ha. at the end of F.Y 2025-26.	3.938 Ha. upto F.Y 2023-24	As reported in the AR of 2023-24.
3p	Production of ROM mineral during last five-year period, as applicable	Limestone 2019-20: 110000 tons, 2020-21: 110000 tons, 2021-22: 110000 tons 2022-23: 110000 Tons 2023-24: 110000 tonnes	Limestone 2019-20: 42000 tons, 2020-21: 20000 tons, 2021-22: 35000 tons, 2022-23: 36000 tons 2023-24: 42500 tons	

	Dolomite	No Dolomite
	2018-19: 10000 tons,	production has been reported in last five years.
	2019-20: 10000 tons,	
	2020-21: 10000 tons,	
	2021-22: 10000 tons,	
	2022-23: 10000 Tons	
	2023-24:10000 tonnes	

3q General remarks of As reported by the lessee's representative, inspecting officer on Limestone production was less due to lack of method of mining etc. market demand and quality issue.

#### **Solid Waste Management-Dumping:**

<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual work</b>	<b>Remarks</b>
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping for OB has been Proposed	Separate dumping for OB waste has been observed.	No top soil and mineral reject generation is proposed.
4b	Location of topsoil, OB & mineral reject dumps	OB waste dumping proposed near BP-3, at North western side of the ML	No change in waste dumping location	
4c	Number of dumps within lease area and outside lease area	01 no. within ML, Nil outside ML	01 waste dump within ML.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	Entire ML is mineralized.
4e	Number of active & alive dumps	01 no.	01 no.	
4f	Number of dead dumps	No proposal	Nil	
4g	Number of dumps stabilized	No proposal	Nil	

4h	Whether Retaining wall or garland drain all along dumps are there	Proposed.	Retaining wall constructed along the dump as per proposal.
4i	Length of Retaining wall or garland drain all along dump	No proposal during 2023-24	100m of retaining wall and garland drain constructed so far.
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management.	One small active dump is located at north western side of the ML area (near BP-3); retaining wall has been constructed along the toe of the dump to prevent escape of material.	

#### **Solid Waste Management-Backfilling:**

<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual work</b>	<b>Remarks</b>
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mine lease is not matured for rehabilitation by backfilling.		

**Progressive Mine Closure Plan:**

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Proposed.	Submitted along with the Annual Return.	
6b	Area available for rehabilitation (ha)	No proposal	Nil	
6c	Afforestation done (ha)	0.13 Ha.	Apprx. 0.20 Ha. along the ML boundary.	
6d	No. of saplings planted during the year	100 nos.	250 nos. within ML.	
6e	Cumulative no. of plants	No proposal	Approx. 900 nos.	Within and outside ML
6f	Any other specific method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch & care during the year	Rs. 5000/-	Rs. 15,000/- as reported by the lessee representative.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D)	No proposal	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings	No proposal	Not applicable	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area	No proposal	Not applicable	
6k	Compliance on reclamation and rehabilitation by backfilling (iv)	No proposal	Not applicable	

	Rehabilitation by making water reservoir		
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	No proposal	Not applicable
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	No proposal	Not applicable
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha)	No proposal	Not applicable
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Not applicable
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed.	Carried out periodically and parameters were found within prescribed limit.
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	PMCP compliance & progressive closure operations were found as per the approved proposals.	

**Mineral Conservation:**

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch proposed after sizing and sorting to the consuming industries.	ROM & grade wise dispatch after sizing and sorting.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual sizing and sorting.	Manual sizing and sorting of ROM.	

7c	Different grade of mineral sorted out at mines	Proposed for all +34% CaO in respect of Limestone.	BF grade Limestone dispatch reported in F.Y. 2023-24
7d	Any beneficiation process at mines	No proposal	Nil except manual sorting and sizing.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Grade wise mineral being dispatched from the mine after manual sizing and sorting of ore. 38944.6 tonnes of BF grade Limestone dispatched form the mine during 2023-24.	

### Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No Top Soil generation in F.Y. 2023-24	
8b	Concurrent use or storage of topsoil	No proposal	Not Applicable	Top soil earlier used for plantation along the safety barrier zone.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Not Applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Mine pit is not matured for backfilling.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not Applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation of local Spices	Baseline information submitted.	Apprx. 900 nos. saplings were planted within

and outside ML  
area.

8g	Survival rate	Not specified	60 to 70%
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water tanker arrangement for water sprinkling on mine roads has been made
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around the mining area is good.	

### Compliance of Rule 45:

Sl.No.	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to Mar. 2025  A.R. Submitted up to 2023-2024	Date of submission of AR was 23.06.2024.

S.N.	Item	Propasals	Actual work	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - Shri Prasad Teli  Geologist - Shri. D.S. Malakai	Mines Manager cum Mining Engineer - Shri Rakesh B.; Geologist - Shri. V. Pawan Kumar.	Notice of appointments were submitted.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining:3.65 Ha. Dump = 0.23 ha Road = 0.05 ha Mineral Storage=0.12 ha	Area under mining:3.43 Ha. Dump = 0.15 ha Road = 0.02 ha Mineral Storage=0.12 ha	
9d	Scrutiny of Annual return on afforestation	250 nos. within ML	Plantation carried out along the ML boundary	

9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Furnished as Nil	No mineral reject generation.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock for Limestone and Dolomite: Nil  Graded ore closing Stock of BF grade Limestone: 32277.8 tonnes.  Graded ore closing Stock of Dolomite: Nil.	Actual was also same at that time as per mine production and dispatch register.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine Price for BF grade Limestone: Rs. 578/ tonne.  Production Cost: Rs. 415.77 /tonne	Some of the invoices were checked during inspection and sale value given was found correct.
9i	Scrutiny of Annual return on fixed assets	Estimated market value furnished as Rs. 188,14809/-	Net closing balance and estimated market values are mentioned in AR.
9k	Scrutiny of Annual return on mining machineries	Jack Hammer - 1 Compressor - 1 Tippers - 1 Excavator - 1	No change

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<b>Details of violations observed during current inspection and compliance position of violation pointed out</b>					
<u>Violation observed</u>			<u>Show cause position</u>		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
<b>Nil</b>					

**(KRISHNENDU CHATTERJEE)**  
**Indian Bureau of Mines**