

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

**MCDR inspection REPORT**

**Goa regional office**

**Mine file No :** KNT/BJP/LST-79/GOA

**Mine code :** 38KAR26060

- (i) Name of the Inspecting : **NKK** ) **NARESH KUMAR KATARIYA**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/ Shri. Prakash Sabarad (Lessee Rep.), Prasad Teli  
Official with  
Designation
- (iv) Date of Inspection : 14-MAY-23
- (v) Prev.inspection date : 05-JAN-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **HEBBAL (ML NO. 2493)**
- (b) **Registration NO.** : **IBM/5676/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :  
State : KARNATAKA  
District : BAGALKOT  
Village : HEBBAL  
Taluka : MUDHOL  
Post office :  
Pin Code :  
FAX No. : NA  
E-mail : minerals.ganga578@gmail.coi  
Phone : 9449579690
- (f) Police Station : Lokapur
- (g) First opening date : 06-DEC-06
- (h) Weekly day of rest : TUE
2. Address for : APMC YARD  
correspondance : MUDHOL-587313  
DIST-BAGALKOT, KARNATAKA STATE
3. (a) Lease Number :  
(b) Lease area :  
(c) Period of lease :  
(d) Date of Expiry :
4. Mineral worked : DOLOMITE Associated  
LIMESTONE Main

## 5. Name and Address of the

Lessee : KALLAPPA H SABARAD  
 APMC YARD MUDHOL BAGALKOT  
 KARNATAKA  
 Phone:08350280255  
 FAX :

Owner : KALLAPPA H. SABARAD  
 APMC YARD MUDHOL BAGALKOT  
 KARNATAKA  
 Phone:  
 FAX :

## Mining Engineer

Name : Yadav Sagar Shrikant, Full Time  
 Qualification : BE-MINING  
 Appointment/ : 20-MAR-21  
 Termination date

## Geologist

Name : Shri D.S. Malkai, Full Time  
 Qualification : M.SC.Geology  
 Appointment/ : 01-MAY-18  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	27-SEP-04
Plan/Scheme of Mining		Modif.of approved Mining Plan	16-JAN-08
		Mining Scheme rule 12 MCDR1988	26-AUG-11
		Mining Scheme rule 12 MCDR1988	10-MAR-16
		MP modif under 17(3) MCR 2016	13-DEC-17
		MP review under 17(1) MCR 2016	14-JAN-21

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	No exploration proposal in the previous RY.
1b	Exploration over lease area for geological axis 1 or 2	G1 axis	G1 axis	Entire ML area was explored by the lessee under G1 level as per records.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	G1 achieved for entire ML area.
1e	Balance reserve as on 01/04/20		As on 31.03.2023 Proved Mineral Reserves (111) = 1808974 tons Mineral Resources (221) =667879Tons.	
1f	General remarks of inspecting officers on geology, exploration etc			Entire ML area was explored under G1 level

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E536070 To E5361220 N17090580 To N17090632	E536070 To E5361220 N17090580 To N17090632	The surface plan is not found updated as per provisions of the rules under MCDR 2017. Violation pointed out for the same.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, proposed Separate benches in OB& Mineral.	Working has been not carried out as per the proposal.	Violation pointed out under rule 11(1) of MCDR 2017 for the same.
2c	Stripping ratio or ore to OB ratio	1 : 0.052	1 : 0.05	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	2530	720	OB generation is found very less than the proposal. Violation pointed out under rule 11(1) of MCDR 2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Working has been not carried out as per the proposal. OB generation is found very less than the proposal. Violation pointed out under rule 11(1) of MCDR 2017.

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### Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed.	Single pit working observed.	
3b	Quantity of ROM mineral production proposed	110000 tons of limestone and 10000 ton of dolomite	36,000 tons of limestone achieved	Mine development and production is found very less than the proposal. Violation pointed out for the same.
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	

3d	Quantity of mineral reject generation	Nil	Nil
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 Method	Manual Method
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Only Manual Picking of Ore from Intercalated Waste
3j	Provision of drilling and blasting in mineral benches	Spacing -1.25m Burden - 1.20m Depth - 3.00m It is Proposed to drill by Jack Hammer and blasting by using Slurry Explosive.	Drilling & Blasting operation is being done as per proposal as reported by lessee.
3k	Provision of mining machineries in mineral benches	Jack Hammer -2 Compressor - 2 Excavator - 01 Tippers - 3 Loader-1	Jack Hammer - 1 Tractor Mounted Compressor - 1 Tippers - 1 Excavator - 1 Loader-1

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	05mtr bench height is proposed	Bench Height is 4-5m. But, width of the benches is observed less than the proposal.	Some benches are observed unsystematic and small heaps are observed in the pit botton without any planning. Width of the benches is observed less than the proposal. Violation pointed out for the same.
3m	Total area covered under excavation/pits	4.08 hect area is proposed for Pit	3.71 hect areas are under Pit only	Mine development is found lagging from the proposal. Violation pointed out for the same.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.05	1 : 0.05	
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2021. Mines = 3.65ha Dump = 0.23ha Mineral Storage=0.12ha Road=0.05ha	Land use Pattern as on 31.03.2023. Mines = 3.70 ha Dump = 0.23ha Road = 0.05 ha Mineral Storage=0.12 ha	

3p	Production of ROM mineral during the last five year period as applicable	Limestone 2018-19-110000 tons, 2019-20-110000 tons, 2020-21-110000 tons, 2021-22-110000 tons Dolomite 2016-17- 10000 tons, 2017-18- 10000 tons, 2018-19- 10000 tons, 2019-20- 10000 tons, 2020-21- 10000 tons,	Limestone 2018-19- 40000tons, 2019-20- 42000 tons, 2020-21- 20000 tons, 2021-22-35000 tons, 2022-23-36000 tons Dolomite 2016-17- Nil 2017-18- Nil 2018-19- Nil 2019-20- Nil 2020-21- Nil	
3q	General remarks of inspecting officers on method of mining etc.			As reported by the lessee's representative, Limestone production was less due to lack of market demand. Mine development is not found satisfactory as per approved proposal. Violation pointed out for the same.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping for OB has been Proposed	Separate dumping for OB has been observed.	Most of the OB is utilized for Road Work as reported by lessee.
4b	Location of topsoil, OB and mineral reject dumps	1790632 to 1790714(N) 536031 to 536182 (E)	1790632 to 1790714(N) 536031 to 536182 (E)	

4c	Number of dumps within lease area and outside of lease area	OB dump has proposed at 1790632 to 1790714(N) 536031 to 536182 (E)	Dump has formed in Proposed area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within the UPL	Within the UPL	Entire ML is mineralized; Temporary dump has been proposed to rehandle at conceptual stage.
4e	Number of active and alive dumps.	Lease area =One Non Lease area= Nil	Lease area =One Non Lease area= Nil	
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.	Garland Drain along Dump	Garland Drain Along Dump has been observed.	
4i	Length of Retaining wall or garland drain all along dumps	Not specified	Approx. 60m of retaining wall and garland drain constructed.	
4j	Number of settling ponds	Not proposed.	Nil	
4k	Specific comments of inspecting officer on waste dump management			One active dump is located at north eastern side of the ML area (near BP-3); retaining wall has been constructed along the toe of the dump to prevent escape of material.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Proposals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Full extraction of the mineral.	Nil	The mine pit was not matured for backfilling.
5b	Area under backfilling of mined out area	Nil	Nil	Area not matured for backfilling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	No top soil generation proposal in the RY.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Area not matured for backfilling.
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.

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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).	Yes	Not submitted till date of inspection.	To be Submitted for the year 2022-23
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	Nil	Nil	

6e	Cumulative no .of plants	Not specified	Apprx. 500 nos. of saplings planted along the safety barrier zone of the lease area.	
6f	Any other method of rehabilitation	Not proposed	Not done.	
6g	Cost incurred on watch and care during the year	Not Specified	Approx. 5000 rupees as reported by lessee.	
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 backfilled area	NIL	NIL	Area not matured for backfilling.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not done.	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	NA	

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not applicable	NA	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	NIL	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed.	Environmental monitoring is carried out periodically and parameters are found within stipulated limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance & progressive closure operations are found as per the approved proposals. Report is to be submitted.

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Mineral Conservation:

Sl.No.	Item	Propasals	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	Manual sorting and sizing of ROM.	

7c	Different grade of mineral sorted out at mines.	Proposed for all +34% CaO.	BF grade limestone dispatch reported during 2021-22.	Annual Re-trun not submitted for the year 2022-23
7d	Any beneficiation process at mines .	Not proposed	Manually sorting and sizing is being done.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM/ grade wise mineral being dispatched from the mine after sizing and sorting of ore.

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**Environment:**


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Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No top soil generation during 2022-23.	
8b	Concurrent use or storage of topsoil	No proposal	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping for OB waste proposed.	Separate dumping of OB waste carried out.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NIL	Mine pit is not matured for backfilling

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed in the RY.	NIL	Proposed during conceptual stage.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation proposed.	Apprx. 500 nos. along the safety barrier zone.	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	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 around the mining area is good and impact on environment is less due to small scale mining operation. Some unsystematic work is found in the mine pit. Violation pointed out for the same.

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Compliance of Rule 45:

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Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR not submitted for the year 2022-23	MR Submitted up to = April-23 AR Submitted up to =2021-22	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - Shri Prasad Teli Geologist - Shri. D.S.Malakai	AR not submitted for the year 2022-23
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mines = 3.70 ha Dump = 0.23ha Road = 0.05 ha Mineral Storage=0.12 ha	AR not submitted for the year 2022-23
9d	Scrutiny of Annual return on afforestation	Approx. 100 saplings inside the lease area.	AR not submitted for the year 2022-23
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	AR not submitted for the year 2022-23	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	AR not submitted for the year 2022-23	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	AR not submitted for the year 2022-23	
9h	Scrutiny of Annual return on fixed assets	AR not submitted for the year 2022-23	
9k	Scrutiny of Annual return on mining machineries	Hydraulic Excavator-1 Air Compressor- 01 Tipper- 03 Loader-01	AR not submitted for the year 2022-23

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**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)	22-JUN-23			
MCDR17	Rule 31(4)	22-JUN-23			

**Date :**

**(NARESH KUMAR KATARIYA)**

Indian Bureau of Mines