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MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BGM/LST-25/GOA

Mine code : 38KAR02031

- (i) Name of the Inspecting : **K07**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/SHRI. B.D.KENCHAREDDY, LESSEE AND SADANAND D.NAIK,
Official with
Designation
- (iv) Date of Inspection : 21-MAR-24
- (v) Prev.inspection date : 29-JUN-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KAMKERI (ML NO 2501)**
- (b) **Registration NO.** : **IBM/6193/2011**
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BELGAUM
- Village : Halki
- Taluka : Mudhol
- Post office : Ningapur
- Pin Code : 993
- FAX No. :
- E-mail : tippannakenchareddy@gmail.com
- Phone :
- (f) **Police Station** : RAMDURGA
- (g) **First opening date** : 02-NOV-05
- (h) **Weekly day of rest** :
2. **Address for correspondance** : Kamakeri Limestone Mine of Shri B.D.Kenchreddy
At-Kamkeri, Tq-Ramdurga
Dist- Belgaum, Karnataka
3. (a) **Lease Number** : KAR1364
- (b) **Lease area** : 4.49
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 04-JUL-53
4. **Mineral worked** : LIMESTONE Main

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5. Name and Address of the

Lessee : BASAPPA DUNDAPPA KENCHAREDDY
 HALKI VILLAGE POST NINGAPUR
 TALUKA MUDHOL BAGALKOT
 KARNATAKA
 Phone:
 FAX :

Owner : BASAPPA DUNDAPPA KENCHAREDDY
 At-Halki, Post-Ningapur Tq-
 Mudhol Dist-Bagalkot
 BAGALKOT KARNATAKA
 Phone: 08350-244027
 FAX :

Agent : TIPPANNA D.KENCHAREDDY
 VILLAGE-HALKI TALUKA-MUDHOL
 DISTRICT-BAGALKOT BAGALKOT
 KARNATAKA
 Phone:
 FAX :

Geologist

Name : K.RAJASEKHAR, Full Time
 Qualification : MSc. Geology
 Appointment/ : 01-APR-19
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	21-JAN-04
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	26-APR-10
	:	Mining Scheme rule 12 MCDR1988	10-APR-12
	:	Mining Scheme rule 12 MCDR1988	18-NOV-15
	:	MP review under 17(1) MCR 2016	24-JAN-20

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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 during F.Y 2022-23.	
1b	Exploration over lease area for geological axis 1 or 2	G1	G1: 4.654 Ha.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 proposed.	G1 achieved.	
1e	Balance reserve as on 01/04/20		2.244 million tonnes of Limestone. Limestone quality: CaO 35% to 47.27% CaO.	As on 01.04.2023.
1f	General remarks of inspecting officers on geology, exploration etc		Entire ML area is explored by the lessee under G1 level by drilling with 10 nos. of DTH and 06 nos. of core boreholes.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1791080 N to 1791190 N and 5274570 E to 527630 E	1791040 N to 1791190 N and 5274570 E to 527630 E	Changes in development area were observed during inspection.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in ore proposed.	Benches in Ore: 3 Benches in Overburden: 0	
2c	Stripping ratio or ore to OB ratio	1: 0.05	1:0.13	
2d	Quantity of topsoil generation in m3	450 m3	480 m3	

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2e	Quantity of overburden generation in m3	1020 m3	789 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No working proposals in F.Y. 2022-23 and in F.Y. 2023-24 are given along the southern side of the ML boundary along section nos. D-D' and E-E'. But during the inspection it was observed that working Pit was extended up to the southern side of the ML boundary against the approved proposal. Violation of Rule 11(1) issued on dated 03.04.2024.

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: 160m x 140m x 15m
3b	Quantity of ROM mineral production proposed	50,000 tonnes of Limestone	15,000 tonnes of Limestone production reported during F.Y. 2022-23.	
3c	Recovery of sailable/usable mineral from ROM production	95% recovery of ROM proposed	87% recovery	Waste consists of mainly interstitial clay bands within ROM domain.
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not applicable	As reported by the lessee during inspection.
3f	Quantity of sub grade mineral generation.	No proposal	Nil	

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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 operation.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	
3j	Provision of drilling and blasting in mineral benches	Proposed to drill by jack hammer and blasting using slurry and UNFO	Jack Hammer Drilling and Blasting with Slurry Explosive and ED with 25mm diameter hole.	
3k	Provision of mining machineries in mineral benches	No proposal	Nil	Cat. B, 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.	Height of the benches was not maintained as per proposal.	Violation of Rule 11(1) issued.
3m	Total area covered under excavation/pits	2.20 Ha. at the end of F.Y. 2023-24.	2.30 Ha.	Actual Pit extent furnished as per submitted AR of 2022-23.
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.05	1:0.13	
3o	Total area put in use under different heads at the end of year	Area under mining: 2.20 Ha. Waste Dump: 0.1 Ha. Infrastructure s & Road: 0.10 Ha. Green belt: 0.6 Ha.	Area under mining: 2.30 Ha. Waste Dump: 0.2 Ha. Infrastructures & Road: 0.70 Ha. Green belt: 0.55 Ha.	Land utilization details furnished as per submitted AR of F.Y 2022-23.

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3p	Production of ROM mineral during the last five year period as applicable	2018-19:	2018-19: 7,000
		50,000	2019-20: Nil
		2019-20:	2020-21: 5,000
		50,000	2021-22: 5,000
		2020-21:	2022-23: 15,000
		50,000	(in tonnes)
		2021-22:	
		50,000	
		2022-23:	
		50,000	
		(in tonnes)	

3q General remarks of inspecting officers on method of mining etc.

Working bench height is proposed to be maintained by 3m and width more than the height of the benches. But during the inspection it was observed that pit benches were formed unsystematic manner with height of the benches more than 3m and width were also less than the bench height. Highwall of 6m height was also observed along the southern side of the lease boundary, in between section nos. D-D' and E-E'. Violation of Rule 11(1) issued on dated 03.04.2024.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of waste proposed.	Dumping of waste was carried out as per proposal.	
4b	Location of topsoil, OB and mineral reject dumps	Concurrent use of top soil proposed for plantation.	Top soil is being utilized for plantation along the 7.5m safety barrier.	

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4c	Number of dumps within lease area and outside of lease area	Within ML 1 no. Nil outside ML	One waste dump was found located within lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside UPL	Dump is located outside UPL.
4e	Number of active and alive dumps.	01 no. proposed	01 no. dump constructed.
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.	Proposed.	Retaining wall constructed.
4i	Length of Retaining wall or garland drain all along dumps	30m proposed during 2022-23.	Constructed as per proposal. 700m of top soil bund constructed along the ML boundary so far.
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management		Dumping of waste was found carried out as per proposal.

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.	No proposal	Nil as the mine pit is 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	

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5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mine pit is 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. 2022-23	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.040 Ha. during 2022-23	0.050 Ha. along the 7.5m safety barrier areas.	
6d	No. of saplings planted during the year	100 nos.	200 nos. within the ML area in 2022-23.	
6e	Cumulative no .of plants	Not specified.	Apprx. 1000 nos. saplings planted along the safety barrier.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	Rs. 5000/- proposed.	Rs. 10,000/- as reported by the lessee.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Not applicable	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable	

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6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Not applicable	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable	
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 rehabilitation (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 and buffer zone)	Proposed.	Environmental monitoring is carried out yearly basis and parameters are found within stipulated limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Apprx. 1000 nos. saplings were planted along the safety barrier. PMCP compliances are being carried out as per approved proposal.

 Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise dispatch proposed after sizing and manual sorting.	Grade wise dispatch after sizing and manual sorting.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sizing and sorting.	Manual	
7c	Different grade of mineral sorted out at mines.	Proposed for all +35% CaO	BF grade Limestone dispatch reported in F.Y. 2022-23	
7d	Any beneficiation process at mines .	No proposal	Nil.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Grade wise mineral being dispatched from the mine after manual sizing and sorting. 23895 tonnes of BF grade Limestone were dispatched from the mine during 2022-23.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed.	Top soil is being utilized for safety bund formation and planation along the ML boundary.	
8b	Concurrent use or storage of topsoil	Proposed.	Top soil is being used for plantation along the safety barrier zone.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dumping of waste is proposed.	Separate dumping of waste has been made.	

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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)	Proposed during conceptual stage.	Not applicable as of now.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed.	Apprx. 1000 nos. saplings were planted within 7.5m safety barrier area.	
8g	Survival rate	Not specified.	80 to 90%	
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 around the mining area is good and impact on environment due to mining is less due to small scale manual mining operation.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to March. 2024 & A.R. Submitted up to 2022-2023	Date of submission of last AR was 25.06.2023.	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri Sadanand D. Naik Geologist: Shri K. Rajashekar	Manager: Shri Sadanand D. Naik Mining Engineer: Shri Manjunath C. Patil (part time) Geologist: Shri K. Rajashekar (Part time)	Notices of appointments of Mining Engineer and Geologist were submitted.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining: 2.30 Ha. Waste Dump: 0.2 Ha. Infrastructures & Road: 0.70 Ha. Green belt: 0.55 Ha.	No change.	
9d	Scrutiny of Annual return on afforestation	200 nos. within ML area.	Plantation carried out along the ML boundary.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Furnished as Nil	No mineral reject generation in 2022-23.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stocks: Nil Graded ore closing Stock of BF grade Limestone: 5829.285 tonnes.	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 and production cost	Ex-Mine Price for BF grade Limestone: Rs. 548.15/ tonne Production Cost: Rs. 352 /tonne	Some of the invoices were checked during inspection and sale value given was found correct.	
9h	Scrutiny of Annual return on fixed assets	Furnished as Rs. 139,60,000/-	Net closing balance and estimated market values are mentioned in AR.	
9k	Scrutiny of Annual return on mining machineries	Air Compressor-1 no. Water Tanker-1 no.	No change.	B-Cat. Manual mining operation.

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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)	03-APR-24			

Date :**(KRISHNENDU CHATTERJEE)**

Indian Bureau of Mines