

I/29439/2024

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/MYS/KY/4/BNG

Mine code : 33KAR14004

- (i) Name of the Inspecting : 277 ) GANGADHAR BHAKAT  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri. Shiva Yogi S.S, GPA Holder  
Official with  
Designation
- (iv) Date of Inspection : 28/12/2023
- (v) Prev.inspection date : 19/10/2022

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KARGILA
- (b) Registration NO. : IBM/14667/2012
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :  
State : KARNATAKA  
District : MYSORE  
Village : KARGILA  
Taluka : H.D.KOTE  
Post office : HAMPAPURA  
Pin Code :  
FAX No. : geokuvalai@gmail.com,  
E-mail : akram.mohammed25@yahoo.com  
Phone : 9742267768,shivayogi.ec@gma
- (f) Police Station : Hampapura
- (g) First opening date : 05/07/1977
- (h) Weekly day of rest : SUN
2. Address for correspondence : Sri.Mohammed Akram  
No.228, 'Neralu', 1st Floor, 8th Cross 1st Main,  
2nd Stage, Srirampura, Mysuru 570034
3. (a) Lease Number : ~~KAR0728~~ ML No 2286
- (b) Lease area : ~~40.47~~ 12.14 Ha
- (c) Period of lease : ~~20~~ 50 Years up to 03/06/2027
- (d) Date of Expiry : ~~03/06/1997~~ 03/06/2027
4. Mineral worked : KYANITE Main  
IRON ORE Associated

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## 5. Name and Address of the

Lessee : MOHAMMED AKRAM  
 # 104/105, RAGHAVENDRA  
 BUILDING, N.S.ROAD, MYSORE  
 KARNATAKA  
 Phone:  
 FAX :

Owner : Shivayogi.S.S General Power Attorney  
 No.228,'Neralu', 1st FLOOR  
 8th CROS 1st Main, 2nd  
 Stage, Srirampura, Mysuru,  
 MYSORE KARNATAKA  
 Phone: 9742267768  
 FAX :

## Mining Engineer

Name : Bhakatavaran, Full Time  
 Qualification : B E MINING  
 Appointment/ : 01/11/2021  
 Termination date

## Geologist

Name : Dr.C.P.PRASANNA KUMAR, Part Time  
 Qualification : M.SC.(GEO)  
 Appointment/ : 01/11/2021  
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	17/08/1999
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	19/12/2007
		Mining Scheme rule 12 MCDR1988	17/11/2011
		MP review under 17(1) MCR 2016	12/03/2020

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Proposed 04 Tranches (10mX2mX3m) for the year 2021-22.	Carried out during the year 2022-23.	--
1b	Exploration over lease area for geological axis 1 or 2	No proposal.	Nil	--
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil.	NA	--
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	G1 - 9.0 Ha G3 - 3.14 Ha	
1e	Balance reserve as on 01/04/20		0.172 MT (as on 01/04/2023)	--
1f	General remarks of inspecting officers on geology, exploration etc			Backlog exploration has been carried out against the proposal of 04 Nos of tranches (10mX2mX3m) during the year 2022-23.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed along the section line A-A' & B-B'	Working is being carried out as per the proposal.	--
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal.	NA	Float ore workings.
2c	Stripping ratio or ore to OB ratio	1:1.5 (in tons)	1:1.31 (in tons)	Ore: 1799.75 Tons OB: 2362 Tons (As reported by the lessee)
2d	Quantity of topsoil generation in m3	2626 Cu.m	Nil.	No topsoil generated during the year 2022-23.

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2e	Quantity of overburden generation in m3	17071 Cum	1181Cu.m	Violation pointed out.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			This is a float ore mine with up to 3m depth maximum. Ore is hand-picked manually and waste concurrently backfilled.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit proposed.	One pit.	
3b	Quantity of ROM mineral production proposed	26879 Tons	1799.75 Tons	Less production achieved. Violation pointed out.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	--
3d	Quantity of mineral reject generation	No proposal.	Nil.	No mineral reject generated.
3e	Grade of mineral rejects 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	Manual method proposed for segregating from ROM.	As per the proposal.	'B' Category manual mine.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	NA	

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3j	Provision of drilling and blasting in mineral benches	No proposal.	NA	
3k	Provision of mining machineries in mineral benches	No proposal.	NA	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	The height of benches in overburden and mineral suitable.	As per the proposal.
3m	Total area covered under excavation/pits	6.518 Ha. (During plan period)	1.33 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.5 (in tons)	1:1.31 (in tons)	Ore: 1799.75 Tons OB: 2362 Tons (As reported by the lessee)
3o	Total area put in use under different heads at the end of year	Working-6.518Ha, Mineral storage-0.157Ha, Roads-0.225Ha.	Working-1.33Ha, Mineral storage-0.157Ha Roads- 0.225 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2018-19 - 19241 2019-20 - 19241 2020-21 - 26879 2021-22 - 26879 2022-23- 26879 (In tons)	2018-19 - Nil 2019-20 - 1645 2020-21 - 3608 2021-22 - 4650 2022-23- 1799.75 (In tons)	-
3q	General remarks of inspecting officers on method of mining etc.			Working carried out within the proposed location. Violation issued under rule 11(1) of MCDR, 2017 for less production achieved during the year 2022-23.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	OB proposed for concurrent backfilling.	Carried out as per proposal.	No topsoil generated.
4b	Location of topsoil, OB and mineral reject dumps	No proposal.	Nil.	No topsoil generated.
4c	Number of dumps within lease area and outside of lease area	No proposal.	Nil.	Waste is concurrently backfilled.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal.	Nil.	
4e	Number of active and alive dumps.	No proposal.	Nil.	No active dump observed in the ML area.
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.	No proposal.	Nil.	
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	Nil.	
4j	Number of settling ponds	No proposal.	Nil.	
4k	Specific comments of inspecting officer on waste dump management			No generation of top soil, waste material is being used concurrent backfilling in the pit after hand-picking the ore.

#### 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.	Concurrent backfilling is carried out after extraction of float ore.

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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)	2626 Cum	Nil.	No topsoil generated.
5d	Total area fully reclaimed and rehabilitated	No proposal.	Nil.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Concurrent backfilling is carried out after extraction of float ore.

## 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.	Annual PMCP report submitted for the year 2022-23 on 6/07/2023.	
6b	Area available for rehabilitation (ha) .	No proposal.	Nil.	
6c	afforestation done (ha).	0.10 Ha	0.10Ha	As reported by the lessee.
6d	No. of saplings planted during the year	WML- 250 No's.	WML- 250 Nos.	Within the safety zone area.
6e	Cumulative no .of plants	750 No's.	770 No's.	During the plan period.
6f	Any other method of rehabilitation	No proposal.	Nil.	
6g	Cost incurred on watch and care during the year	Rs. 50,000/-	Rs. 58,000/-	Information furnished by the lessee during inspection.

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NA	NA	Concurrent backfilling is carried out.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	Concurrent backfilling of waste into to float ore mined out pit is done as per proposals.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal.	Nil.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Nil.	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	Nil.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal.	Nil.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	Nil.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	Nil.	



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6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed for Air, Water & Noise at core zone & buffer zone.	Carried out records verified during inspection.	All the parameters are within the permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environmental monitoring of Ambient air quality, Ground water & Noise level for core zone & buffer zone carried out by M/s Sneha Test House, Bangalore. All the parameters are within the permissible limit.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual sorting & sizing.	Sorting & sizing carried out within lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual method proposed for grade-wise mineral sorting.	Manual method adopted for grade-wise mineral sorting.	
7c	Different grade of mineral sorted out at mines.	No proposal.	Grade-wise sorting 35 to 40% Al <sub>2</sub> O <sub>3</sub> .	
7d	Any beneficiation process at mines	No proposal.	Nil.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Manual method adopted for grade-wise sorting of mineral within the lease area.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	2626 Cum	Nil.	No topsoil generated.
8b	Concurrent use or storage of topsoil	As and when encountered to be used for afforestation purpose.	Nil.	No topsoil generated.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal.	Nil.	Concurrent backfilling proposed.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Nil.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Nil.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	WML- 750Nos.	770 No's (WML)	During the plan period.
8g	Survival rate	No proposal.	50%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on haul road to control air born dust.	Water sprinkling was carried out to control air born dust.	Capacity of Water Tanker 5000 Ltr.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is carried out along the safety zone area. Good greenery is present in and around the mine area.

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## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M. R. submitted up to September, 2022 A.R submitted up to Year 2021-22		M.R. submitted on 02/10/2022 A.R submitted on 06/07/2022 (SCN issued)
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	"Mines Manager: Nil. Geologist: Nil.	Violation pointed out.	Mining Engineer: Shri. Bhakthavathsalam P. present during the inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Working- 1.33Ha, Mineral storage- 0.157Ha Roads- 0.225 Ha.	Appears to be correct.	As per AR FY 2022-23.
9d	Scrutiny of Annual return on afforestation	WML: 250, & survival rate: 50%	Appears to be correct.	--
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject generated.	Nil.	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock of ROM: 3571.25 Tons, ROM Production: Tons. 1799.75 Tons, Closing Stock of ROM: 2851 Tons. Grade wise production of Kyanite (Below 40% Al2O3):- 360 Tons.	The closing stock figures provided are not tallying with opening stock & production carried out during the year 2022-23.	Violation pointed out.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price Rs. 1790/- per ton production cost: Rs. 1710/- per ton	Appears to be correct.	-

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9h	Scrutiny of Annual return on fixed assets	Value of fixed asset: Rs320000 /-	Appears to be correct.	-
9k	Scrutiny of Annual return on mining machineries	Nil.	Appears to be correct.	'B' Category Manual working.

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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)	16/02/2024		MCDR17 Rule 11(1)	16/02/2024	
MCDR17 Rule 35(2)	16/02/2024		MCDR17 Rule 35(2)	16/02/2024	
MCDR17 Rule 45(7) (a)	16/02/2024		MCDR17 Rule 45(7)	16/02/2024	

**Date :****(GANGADHAR BHAKAT)**

Indian Bureau of Mines