

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

MCDR inspection REPORT

Bangalore regional office

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

Mine code : 33KAR14004

- (i) Name of the Inspecting : **S21**) **H M Shivakumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri.Shivayogi.S.S General Power Attorney
Official with
Designation
- (iv) Date of Inspection : 06/10/2021
- (v) Prev.inspection date : 11/03/2016

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 : Sri.Mohammed Akram
correspondance : No.228, 'Neralu', 1st Floor, 8th Cross 1st Main,
2nd Stage, Srirampura, Mysuru 570034
3. (a) Lease Number : KAR0728
- (b) Lease area : 40.47
- (c) Period of lease : 20
- (d) Date of Expiry : 03/06/1997
4. Mineral worked : KYANITE Main
IRON ORE Associated

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 :

Agent : Shivayogi.S.S
 No.228,'Neralu', First
 Floor 8th Cross 1st Main,
 2nd Stage, Srirampura,
 Mysuru MYSORE KARNATAKA
 Phone: 9742267768
 FAX :

Geologist
 Name : Dr.C.P.PRASANNA KUMAR,Part Time
 Qualification : M.SC.(GEO)
 Appointment/ :
 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NA	NA	NIL
1b	Exploration over lease area for geological axis 1 or 2	4	NIL	4 exploratory trenches proposed for 2020-21 is not done . Violation issued.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	
1e	Balance reserve as on 01/04/20	155230Tons	178501Tons	As per the AR 2020-21.
1f	General remarks of inspecting officers on geology, exploration etc			Proposed exploration by trenches not done . Violation issued. This is a float ore deposit of 2-3 mtrs depth and therefore no exploratory drilling is required.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E658005-E658113, N1345315-N1345436	E658005-E658113, N1345315-N1345436	The proposal of workings in the approved plan, the grid locations are maintained actual development.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	NA	There are no such proposals of top soil. OB and mineral benches because the nature deposit is Kyanite ore Float.

2c	Stripping ratio or ore to OB ratio	1: 01.50	1: 01.50	OB: In the form interburden and sideburden.
2d	Quantity of topsoil generation in m3	2626m3	211m3	The generated topsoil used for Afforestation purposes.
2e	Quantity of overburden generation in m3	17071m3	2432m3	4405m3 ROM out of which 1762m3, 2432m3 of OB/SB/IB and 211m3 of Topsoil.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			This is a float ore mine with deposits upto 3 mtrs maximum depth. Ore is handpicked manually and waste concurrently backfilled. Topsoil generated is judiciously used in plantation. Workings are carried out as per the proposals.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	E658005-E658113, N1345315-N1345436	E658005-E658113, N1345315-N1345436	NIL
3b	Quantity of ROM mineral production proposed	26873 m3	3780 m3	Violation issued for achieving only 13% of the total proposed for the year 2020-21.
3c	Recovery of sailable/usable mineral from ROM production	13131m3	1762m3	
3d	Quantity of mineral reject generation	NA	NA	NIL

3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NIL
3f	Quantity of sub grade mineral generation.	NA	NA	NIL
3g	Grade of sub grade mineral generation	-35% Al ₂ O ₃ Content	-35+30%Mn	-35+30%Mn Content the ore analyzing - 35% below is stored separately and judiciously blended with grade as per requirements for domestic buyers
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Manual sorting and sizing.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	
3j	Provision of drilling and blasting in mineral benches	NA	NA	This is float ore mine and no drilling & blasting is required or proposed.
3k	Provision of mining machineries in mineral benches	NA	NA	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The proposed in height of benches in overburden and mineral suitable in the approved Review and Updatation of mining plan.	The height of benches in overburden and mineral suitable.	As per the proposals
3m	Total area covered under excavation/pits	1.3131Ha	0.600Ha	Due to less production , Violation issued.
3n	Ore to OB ratio for the pit/mine during the year.	1: 01.50	1: 01.50	

3o	Total area put in use under different heads at the end of year	Pit.:6.518Ha Afforestation: 0.50Ha Waste Dump: NIL Mineral Storage:0.157H a Roads:0.225Ha R& R Engineer Structures: 0.270.	Pit.:1.3131Ha Afforestation:0.50Ha Waste Dump: NIL Mineral Storage:0.157Ha Roads:0.225Ha R& R Engineer Structures: NIL.	Pit excavation is less than the proposed extent due to less production.
3p	Production of ROM mineral during the last five year period as applicable	2016-15:19241 2017-18:19241 2018-19:19241 2019-20:19241 2020-21:26879 (in tonnes)	2016-15:1850 2017-18:135 2018-19:nil 2019-20:1645 2020-21:3608 (in tonnes)	NIL
3q	General remarks of inspecting officers on method of mining etc.			This is a float ore mining and producing lesser quantity of ore than proposed. However working within the proposed locations , Violation issued for deviating in production proposals.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NA	NA	Top spoil generated is used in plantation and not dumped or stacked.
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	Top spoil generated is used in plantation and not dumped or stacked.
4c	Number of dumps within lease area and outside of lease area	NA	NA	No dumps in the lease area. Waste is concurrently backfilled into the pits after handpicking the ore.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	No active dump in the lease is observed.
4e	Number of active and alive dumps.	NA	NA	NIL
4f	Number of dead dumps.	NA	NA	NIL
4g	Number of dumps established.	NA	NA	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	NIL
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management			No waste dump management is involved in this float ore mine.

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.	NA	NA	Concurrent backfilling is carried out after extracting the float ore.
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	2626m3	211m3	The generated top soil used for Afforestation purposes.
5d	Total area fully reclaimed and rehabilitated	NA	NA	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	The concurrent backfilling of the waste into the pit after completely hand picking the ore and subsequently reclaimed by plantation as per the proposals.
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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).	PMCP submitted on time and correctly	PMCP submitted on time and correctly	PMCP report not submitted in the prescribed format , Violation issued.
6b	Area available for rehabilitation (ha) .	NA	NA	NIL
6c	afforestation done (ha).	0.10Ha	0.10Ha	As per proposals
6d	No. of saplings planted during the year	250No's	250No's	Along the 7.5mts buffer zone of boundary point and near stack yard and rest shelter.
6e	Cumulative no .of plants	250No's	250No's	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	-	Rs.50,000/-	The afforestation watch and care one person has been engaged
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	NIL

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	Concurrent backfilling of waste into float ore mined out pit is done as per the proposals.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NA	NA	Concurrent backfilling of waste into float ore mined out pit is done as per the proposals and plantation is done over backfilled and reclaimed area during 2021-22.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	NA	No waste land in the Mining Lease
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	NA	No waste land in the Mining Lease
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air monitoring both core and Buffer zone.	Air monitoring both core and Buffer zone.	Monitoring of environmental parameters is done regularly by Sneha Test House, Bangalore.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Plantation is carried out in the 7.5 mts safety barrier/green belt and few backfilled reclaimed pits one check dam proposed outside ML is not done. VL issued. PMCP report not submitted in the prescribed format. Violation issued. Environmental parameters is regularly monitored.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Stock yard	Stock yard	The proposed and actual activity has been carried out of ROM mineral dispatch or grade-wise sorting within the lease area.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	Ore is manually hand sorted/picked and waste seperated.
7c	Different grade of mineral sorted out at mines.	Different grade of mineral sorted out at mines Stock yard.	Different grade of mineral sorted out at mines Stock yard.	Nil
7d	Any beneficiation process at mines	NA	NA	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral conservation is taken care. Mineral is hand picked and sorted gradewise, No beneficiation is involved.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	2626m3	211m3	The generated top soil used for Afforestation purposes.
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	Waste is concurrently backfilled into the floatore mined out pit subsequently reclaimed by plantation.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Nil	Nil	Nil
8g	Survival rate	90%	50%	No change.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust.	Whenever required Water sprinkling has been carried out on roads to control airborne dust.	One tanker is deployed for sprinkling on the roads to control air borne dust as and when required.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation is carried out along the 7.5 mtrs safety barrier and few backfilled and reclaimed pits. Good greenary is present in & around the ML area and not much affects on asthetics due to mining. Violation for PMCP report is issued for not submitting in the prescribed format.
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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 ***** 2020 A.R. Submitted up to 2020-21		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager			Part time Geologist was present during inspection . No part time Mining Engineer appointed. Violation issued.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.			Quantity of waste produced is wrongly reflected in AR 2020-21, Violation issued.
9d	Scrutiny of Annual return on afforestation			NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)			NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore			Violation issued for less production than proposed.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Part VII of AR for 2020-21, DMF, NMET & Royalty paid details have not been furnished and accounted for arriving at cost of production. Violation issued.
9h	Scrutiny of Annual return on fixed assets	NIL
9k	Scrutiny of Annual return on mining machineries	NIL

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)	12/10/2021			
MCDR17	Rule 26(2)	12/10/2021			
MCDR17	Rule 33	12/10/2021			
MCDR17	Rule 45(7)(a)	12/10/2021			
MCDR17	Rule 55(1)(1)	12/10/2021			

Date :

(H M Shivakumar)

Indian Bureau of Mines