

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

Review and updation of Mining Plan REPORT

Bangalore regional office

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

Mine code : 33KAR14004

- (i) Name of the Inspecting : **A101**) **ARUN KUMAR**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 06/02/2020
- (v) Prev.inspection date :

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 : **09880249710,shivayogi.ec@gr**
- (f) **Police Station** : **Hampapura**
- (g) **First opening date** : **28/04/1979**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **NO 3 MARCHAHALLI VILLAGE**
HAMPAPURA P.O. H.D. TALUK
DISTRICT MYSORE - 571125
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 : MOHAMMED AKRAM
 # 104/105, RAGHAVENDRA
 BUILDING, N.S.ROAD, MYSORE
 KARNATAKA
 Phone:
 FAX :

Geologist

Name : B.M.SUDHEENDRA KUMAR, Full Time
 Qualification : MSc
 Appointment/ : 14/06/1999
 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	No backlog
1b	Exploration over lease area for geological axis 1 or 2	G1 & G2	G1-9.00 Ha & G3-3.14 Ha	25 Trenches were made in 2019-20, being float ore
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Sri Mohammed Akram, Mysuru	Expenditure incurred- Rs.88718/-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	3.14 Ha	Trenches proposed in FY 2020-21 & 2021-22
1e	Balance reserve as on 01/04/20	-	182109Tons	As per approved mining plan
1f	General remarks of inspecting officers on geology, exploration etc			Exploratory trenches has been carried out covering 9.00 Ha under G1 and remaining area of 3.14 Ha is proposed to be explored in the next plan period.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit.05, E658350- E658400, N1345150 & N1345500	Actual development carried out in Pit No.1 & 2, E658000N1345250 & E657952N1345268 and E657946N1345367 & E657973N1345346	Violation pointed out
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal	There are no such proposals of top soil, OB and mineral benches	Float ore deposit
2c	Stripping ratio or ore to OB ratio	1: 02.12	1: 01.50	Violation pointed out
2d	Quantity of topsoil generation in m3	5875 m3	Top soil were used for plantation purpose	Nil

2e	Quantity of overburden generation in m3	14100m3	1205.43 m3	TCF 2.047: tons/m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Deviation observed in the location of production & development, thus affecting the stripping ratio. Clarification sought.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit, Pit.No.05	Working carried out in two pits, Pit.No.01 & 02	Violation pointed out
3b	Quantity of ROM mineral production proposed	9400m3	803.62m3	Nil
3c	Recovery of sailable/usable mineral from ROM production	40% recovery	40% recovery	Nil
3d	Quantity of mineral reject generation	No proposal	Nil	No generation of mineral reject
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Nil	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Nil	Nil
3g	Grade of sub grade mineral generation	-35% Al2O3 Content	-35+30%Al2O3	-35+30% Al2O3 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 method proposed for segregating from ROM	Manual method adopted	Manual sorting and sizing.

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No such beneficiation study carried out	Nil
3j	Provision of drilling and blasting in mineral benches	No provision of drilling & blasting	Drilling & Blasting was not carried out	Manual mine
3k	Provision of mining machineries in mineral benches	No provision of mining machineries	No machineries were deployed	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Float ore working proposed	The height of the bench is kept as the thickness of the deposit	Deposit thickness is 3 mts
3m	Total area covered under excavation/pits	6.175 Ha at the end of the plan period	0.600Ha	Mine was non operation due to want of statutory clearances
3n	Ore to OB ratio for the pit/mine during the year.	1: 2.12	1: 01.50	Nil
3o	Total area put in use under different heads at the end of year	Pit.:6.175Ha, Mineral Storage:0.06Ha ,Infrastructure-0.10 Ha, green belt-0.15 Ha, unused area-5.665 Ha at the end of plan period	Pit:0.600Ha, Roads:0.225Ha, Untouched area:11.315 Ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2015-16:19241 2016-17:19241 2017-18:19241 2018-19:19241 2019-20:19241 (in tonnes)	2015-16:Nil 2016-17:1850 2017-18:135 2018-19:Nil 2019-20:1645 (in tonnes)	Actual production within the proposed limit
3q	General remarks of inspecting officers on method of mining etc.			Two pits were opened against the proposal of one pit. Violation pointed out

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Temporary OB dump proposed	Temporary OB dump maintained in the past was used for bund making in 7.5 safety zone	Nil
4b	Location of topsoil, OB and mineral reject dumps	Proposed location of OB-E658310-E658320, N1345215 & N1345220	No OB dump available on the date of inspection	Nil
4c	Number of dumps within lease area and outside of lease area	WML-1 small dump	No dumps within & outside the ML area	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Temporary dump proposed within UPL	Temporary dump removed to make small bund in the northern side of the ML boundary	Nil
4e	Number of active and alive dumps.	01 dump	Nil	No active dump observed in the ML area
4f	Number of dead dumps.	No proposal	Nil	Nil
4g	Number of dumps established.	No proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil	Nil
4j	Number of settling ponds	No proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management			Temporary dump removed to make small bund in the northern side of the ML boundary & plantation done

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Backfilling proposed after full extraction of mineral	Nil	Nil
5b	Area under backfilling of mined out area	6.175 Ha	Nil	Mine was non operation due to want of statutory clearances
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use of top soil proposed	Top soil was used for plantation	On the lease boundary
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling was carried out as mineral had not exhausted.

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 to be submitted on or before 1st july every year	PMCP not submitted for FY 2018-19	Violation pointed out
6b	Area available for rehabilitation (ha) .	No proposal	Nil	Nil
6c	afforestation done (ha).	0.22Ha	0.22Ha	Nil
6d	No. of saplings planted during the year	50No's	50No's	Along the 7.5mts buffer zone of boundary point A to B and A to C
6e	Cumulative no .of plants	250No's	250No's	Nil
6f	Any other method of rehabilitation	No proposal	Nil	Nil

6g	Cost incurred on watch and care during the year	Rs. 10000/-	Rs.50,000/-	One person has been engaged for watch and care.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Not specified	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	6.175 Ha	Nil	Mineral not exhausted
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	Nil

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed for air ,water & noise	Environment monitoring was not carried out	Violation issued
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation carried out along the 7.5mts buffer zone of boundary point A to B and A to C.Violation issued for non submission of PMCP report

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting proposed within the lease area	Grade wise sorting done manually	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting proposed	Sorting done manually	Nil
7c	Different grade of mineral sorted out at mines.	Not specified	Different grade of mineral sorted out at mines & stacked separately.	Different grades vary as per the market demand
7d	Any beneficiation process at mines	No proposal	No beneficiation carried out	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation carried out .Manual sorting was done.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed	Top soil generated was utilized	Nil
8b	Concurrent use or storage of topsoil	Reuse of top soil proposed	Top soil used for plantation in the safety zone of 7.5 mts	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate temporary dump proposed	The OB material was used for making bund along the ML boundary	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling was proposed to restore the land	Nil	Mining operation were not carried out due to statutory clearances
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed after exhausting the mineral	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Available	50Nos of saplings planted & in all 250 nos of sapling	Nil
8g	Survival rate	Not specified	60-65% survival rate observed	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads proposed to control airborne dust.	Water sprinkling is done on roads to suppress the dust	Manual mining done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around the mine maintained.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to Jan 2019	Violation issued for non submission of AR report A.R. not submitted up to 2019-2018
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Nil	Nil
9d	Scrutiny of Annual return on afforestation	Nil	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil
9h	Scrutiny of Annual return on fixed assets	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Nil	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)	12/06/2020				
MCDR17 Rule 26(2)	12/06/2020				
Rule 45(5)	12/06/2020				
Rule 45(5)	12/06/2020				

Date :

(ARUN KUMAR)

Indian Bureau of Mines