

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/BHD/KYA-3/NGP

Mine code : 33MSH05011

- (i) Name of the Inspecting : **D025**) **S. M. DORLE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Kannan, Mines manager Shri Deshmukh, Shri Parma
Official with
Designation
- (iv) Date of Inspection : 05/10/2018
- (v) Prev.inspection date : 08/06/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PAVRI KYANITE MINE(JAMDI)**
- (b) **Registration NO.** : **IBM/863/2011**
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : MAHARASHTRA
- District : BHANDARA
- Village : R.F.JAMADI (GIROLA)
- Taluka : SAKOLI
- Post office : SAKOLI
- Pin Code : 441802
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** :
- (g) **First opening date** : 01/03/2001
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : SALPELAR BUILDING,
RANI JHANSI SQUARE,
DIST. NAGPUR-440012 (M. S.)
3. (a) **Lease Number** : MSH0105
- (b) **Lease area** : 6.56
- (c) **Period of lease** : 10
- (d) **Date of Expiry** : 31/03/2020
4. **Mineral worked** : KYANITE Main

5. Name and Address of the

Lessee : SHRI H. M. PAVRI
 SALPEKAR BUILDING, RANI
 JHANSI SQUARE,
 SITABULDI, NAGPUR-440012
 NAGPUR MAHARASHTRA
 Phone:
 FAX :

Owner : SHRI H. M. PAVRI
 SALPELAR BUILDING, RANI
 JHANSI SQUARE, DIST.
 NAGPUR-440012 (M. S NAGPUR
 MAHARASHTRA
 Phone:
 FAX :

Agent : M. KANAN
 BHANDARA MAHARASHTRA
 Phone:
 FAX :

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	12/01/2001
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	03/11/2006
	:	Renewal under rule 24 MCR1960	23/05/2011

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	5 no. of Boreholes	As per proposal	4 no s of additional boreholes are also drilled under rule 12 (4A) and no ore has been intersection as reported by party
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/S Bhimraj Jagnit, Ravinagar , Kamptee , Nagpur Rs 525000=00	Prospecting drilling done as per proposal	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	The entire lease area under G1 level	
1e	Balance reserve as on 01/04/20	Balance reserves /resources as on 01.04.2018 694900 MT	As per proposal	
1f	General remarks of inspecting officers on geology, exploration etc			Along the strike orebody has been already proved. Few boreholes are to be drilled to prove the ore body at deeper level

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Eastern Side	As per Proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposal for 1 bench in top soil & 1 in mineral Bench of 4-6m height	Yes	
2c	Stripping ratio or ore to OB ratio	1:0.89	1:80	

2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	Quantity of overburden generation in m3 2017-18 8143 m3	4166 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The OB quantity were less due to less production and the production was restricted under the EC limit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One pit	
3b	Quantity of ROM mineral production proposed	19320 T as per proposal	7983 T	
3c	Recovery of sailable/usable mineral from ROM production	100%	yes	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	Nil	Nil.	
3g	Grade of sub grade mineral generation	Nl	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Nil	Nil	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches	Proposed	As per proposal	
3k	Provision of mining machineries in mineral benches	Compressor Jackhammer	As per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	1.510 Ha	As per proposal	
3n	Ore to OB ratio for the pit/mine during the year.	1:85	1:80	
3o	Total area put in use under different heads at the end of year	Pit- 2.531 Ha	As per proposal	
3p	Production of ROM mineral during the last five year period as applicable	Yr2013-14 - 13258 MT Yr 2014-15 - 15096 MT Yr 2015-16 - 20048 MT Yr 2016-17 - 30948 Mt Yr.2017-18 19320 MT	Yr2013-14 - 8082 MT Yr 2014-15 - 7929 MT Yr 2015-16 - 7929 MT Yr 2016-17 - 7973 MT Yr.2017-18 - 7983 MT	
3q	General remarks of inspecting officers on method of mining etc.			The mining is being carried out by opencast mechanized method as per approved mining Plan

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No topsoil . OB separately dumped	As per proposal	
4b	Location of topsoil, OB and mineral reject dumps	OB west side of the pit	As per proposal	
4c	Number of dumps within lease area and outside of lease area	Nil	Two Dumps inside the lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	West side of the pit	As per proposal	
4e	Number of active and alive dumps.	Nil	One active dump	
4f	Number of dead dumps.	Nil	One dead dump	
4g	Number of dumps established.	Nil	One dump stabilised	
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			As per approved mining plan

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.	Nil	Nil	

5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Plantation	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling & reclamation at later stage

Progressive Mine Closure 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 2017-18	
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	Nil	Nil	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x 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 on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Nil	Nil

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No stage of backfilling has come
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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	ROM mineral dispatched to own processing Plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	As per proposal	
7c	Different grade of mineral sorted out at mines.	Kyanite above 40% Sillimanite below 40%	As per proposal	
7d	Any beneficiation process at mines .	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The ore raised from mine is taken to beneficiation unit for grinding. Where beneficiation and separation is conducted and is upgraded for consumption use.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil	Nil	
8b	Concurrent use or storage of topsoil	Nil	Nil	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Nil	As on date of inspection approx 2700 plant exist	
8g	Survival rate	86%	86%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling by Tank mounted Tractor	As per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Asthetic bueaty is fair. Plantation found in well kept condition with proper attention to clean house keeping in mine area & as per approved proposal.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Annual return for 2017-18 and Monthly return upto September 2018 submitted	Nil	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information on mining engineer and Geologist not given for 2017-18	Geologist employed in 2018
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings - 3.166 Hect Area for waste disposal - 1.734 Hect	---
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year-100 No. survival rate-86%	Found correct
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	Kynite-5500 Tonnes, graded Closing stock-55 MT Sylliminite-2483 Tonnes-- graded Closing stock-14197 MT	-----
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Kynite- Rs 3487 per tonne Silliminite-Rs 3643.00 per tonne	Nil
9h	Scrutiny of Annual return on fixed assets	Information given on fixed asset	-----

9k	Scrutiny of Annual return on mining machineries	TIPPER ----- 160 CUM - 4 AIR COMPRESSOR 0.000 CUM/MN- 3 PUMPS (NON- ELEC.) 30.000 L/MN- 1 PUMPS (NON- ELEC.) 5.000 L/MN- 1 WHEEL LOADER 0.000 CUM- 1 BACK HOE 0.900 CUM -1 BACK HOE 0.700 CUM -1 ROCK DRILL (NON-ELEC.) 0.000 MM -2
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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

Date :
(S. M. DORLE)

Indian Bureau of Mines