

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/BHD/KYA-23/NGP

Mine code : 33MSH05022

- (i) Name of the Inspecting : **D025**) **S. M. DORLE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Parmar, Mine Owners representative
Official with
Designation
- (iv) Date of Inspection : 21/08/2017
- (v) Prev.inspection date : 17/09/2009

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PAVRI KYANITE MINE(SAKRA)**
- (b) **Registration NO.** : **IBM/863/2011**
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : MAHARASHTRA
- District : BHANDARA
- Village : SAKHARA
- Taluka : LAKHANDUR
- Post office : DIGHORI (MOTHI)
- Pin Code :
- FAX No. : NIL
- E-mail : NIL
- Phone : 0712 - 526378
- (f) **Police Station** : LAKHANDUR
- (g) **First opening date** : 15/04/1970
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : SALPEKAR BUILDING,
RANI JHANSI SQUARE,
SITABULDI, NAGPUR-440012
3. (a) **Lease Number** : MSH0297
- (b) **Lease area** : 11.35
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 10/01/2051
4. **Mineral worked** : SILLIMANITE Associated
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 : SHRI M. KANNAN
 C/O KIRAN HOTEL SAKOLI,
 DISTT. BHANDARA BHANDARA
 MAHARASHTRA
 Phone:
 FAX :

Mining Engineer
 Name : SHRI DIPAK RAHANGDALE, Full Time
 Qualification : DIPLOMA IN MINING & MINE SURVEYING
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	04/10/2000
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	21/09/2006
	:	Mining Scheme rule 12 MCDR1988	08/10/2013
	:	MP modif under MCR 1960	09/09/2016

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	Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	nil	Nil	
1e	Balance reserve as on 01/04/20	95402 Tonnes	95402 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Nil production reported during 2016-17

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Not proposed	Nil	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	benches in topsoil, overburden Proposed	small 1.5 m benches in topsoil and overburden found in the area.	
2c	Stripping ratio or ore to OB ratio	1:10	1:10	
2d	Quantity of topsoil generation in m3	Quantity of topsoil 17500 cum proposed in 2016-17.	Not generated.	

2e	Quantity of overburden generation in m3	Proposed Quantity of overburden generation in m3 in 2016-17 as follows:- Removal of OB/murum-17500 Generation of Schist rock-27500 Generation of quartzite rock-3600	Total overburden generated 2800 cum.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Production is not achieved due to poor market position

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Proposed One pit	Actual in one pit	
3c	Recovery of sailable/usable mineral from ROM production	Proposed 100% recovery	100% recovery as proposed	
3d	Quantity of mineral reject generation	Not proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Not applicable	
3f	Quantity of sub grade mineral generation.	No proposal	Not Applicable	
3g	Grade of sub grade mineral generation	Not applicable	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Proposed Manual	As per proposal, Manual method adopted for segregating from ROM	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil
3j	Provision of drilling and blasting in mineral benches	proposed drilling onlybe carried out for excavation of quartzite	As per proposal
3k	Provision of mining machineries in mineral benches	No provision has been given of mining machineries in mineral benches	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of benches in over-burden and mineral suitable for method of mining proposed in Mining Plan	As per proposal
3m	Total area covered under excavation/pits	Total 3.699 hect area proposed to covered under excavation/pits	Total 0.424 hect area covered under excavation/pits
3n	Ore to OB ratio for the pit/mine during the year.	Ore to OB ratio is 1:10 for the pit/mine proposed during the year	As per proposal.

30	Total area put in use under different heads at the end of year	Proposed total area put in use under different heads at the end of year is Pit-3.699 Hect, Storage of Topsoil-1.670 Hect, Waste Dump-2.70 hect, Storage of Quartzite-2.160 Hect, Infrastructure -0.04 Hect, Road-0.600 Hect.	Actual area put in use under different heads at the end of year around as follows:-Pit-2.00 Hect, Storage of Topsoil-1.670 Hect, Waste Dump-0.70 hect, Storage of Quartzite-0.160 Hect, Infrastructure-0.04 Hect, Road-0.600 Hect.
3p	Production of ROM mineral during the last five year period as applicable	Year 2012-13 - 2850 tonnes Year 2013-14 - 4786 tonnes Year 2014-15 - 5787 tonnes Year 2015-16 - 6546 tonnes Year 2016-17 - 8400 tonnes	Year 2012-13 - Nil Year 2013-14 - Nil Year 2014-15 - Nil Year 2015-16 - 3614 tonnes Year 2016-17 - 280 tonnes
3q	General remarks of inspecting officers on method of mining etc.	Targetted production has not been achieved due to poor market condition	

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 topsoil proposed in 7.5m lease boundary at northern side. OB at western boundary	No topsoil overburden generated	

4b	Location of topsoil, OB and mineral reject dumps	Dumping of topsoil proposed in 7.5m lease boundary at northern side. OB at western boundary	Not applicable as no topsoil, OB generated	
4c	Number of dumps within lease area and outside of lease area	Not proposed	No dump available in the area hence not applicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumping of topsoil proposed in 7.5m lease boundary at northern side. OB at western boundary	Not applicable as presently topsoil and waste not generated	
4e	Number of active and alive dumps.	Not proposed	Not applicable	
4f	Number of dead dumps.	Not proposed	Not applicable	
4g	Number of dumps established.	Not proposed	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Not Applicable	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Not Applicable	
4j	Number of settling ponds	Not proposed	Not applicable.	
4k	Specific comments of inspecting officer on waste dump management			At present due to poor market demand no targetted production achive and subsequently waste is also not generated..

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 not proposed	Not applicable	
5b	Area under backfilling of mined out area	Not proposed	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	Not applicable	
5d	Total area fully reclaimed and rehabilitated	Not proposed	Not applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Presently no stage for backfilling or reclamation has arise.

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 2016-17	
6b	Area available for rehabilitation (ha) .	Not proposed	Not applicable	
6c	afforestation done (ha).	Plantation proposed in 1.65 hectare	Around 1.5 hectares area plantation has been done.	
6d	No. of saplings planted during the year	Proposed 800 plants	Around 50 nos of plants planted in the area	
6e	Cumulative no .of plants	Not proposed	Around 70 nos of plants in the area	
6f	Any other method of rehabilitation	Not proposed	Not applicable.	
6g	Cost incurred on watch and care during the year	Not proposed	Nil	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx 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	Not proposed to carry out afforestation on the waste land.	Afforestation done around 1.5 hect
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA

6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation has been done, no proposal for backfilling. The proposed measures for closure of mines are being complied in the mine

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Presently no top soil generated.	
8b	Concurrent use or storage of topsoil	The usage of top soil was proposed in the plantation on backfilling.	At present no topsoil generated	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate waste dumping was proposed.	As per chapter 4.00 Solid waste Management	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No backfilling was proposed.	No backfilling carried out	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal for backfilling for the year 2016-17	No backfilling carried out	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline study done. It was proposed to do 700 no. of plantation.	Around 70 nos. plantation done.	
8g	Survival rate	Proposed 70%	Around 50%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The terrain is hilly. The general aesthetic beauty of the land is fair.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The annual and monthly returns have been submitted online at time.	Details given in Annual and monthly return are found satisfactory	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer Shri R.Y Kutumbe and Mines Manager Shri Kannan	The mining engineer and manager were present during inspection.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The area under opencast working is given as 3.699 hecets. Under reclaimed area-NIL	The details are found correct as on date of inspection the area under pit as reported in the annual return.	

9d	Scrutiny of Annual return on afforestation	figure of 120 given in the return	Plantation 50 nos is being done inside the lease and rest on 7.5 meter boundary zone.
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	1655 MT sillimanite below 40%	Information given in return is found correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value Rs *-95 Ex-mine price Rs.3415 pmt Production cost Rs.2460 pmt	Information Submitted.
9h	Scrutiny of Annual return on fixed assets	Submitted Rs.1594367	Submitted
9k	Scrutiny of Annual return on mining machineries	Not given	No machinery at present

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
Rule 26(2)	13/10/2017				
Rule 27(1)	13/10/2017				
Rule 55	13/10/2017				

Date :
(S. M. DORLE)

Indian Bureau of Mines