

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : **B014**) **CHANDRESH BOHRA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Mr. M. Kanan, Agent
Official with
Designation
- (iv) Date of Inspection : 26/07/2019
- (v) Prev.inspection date : 21/08/2017

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 : SALPEKAR BUILDING,
correspondance 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 : Naushad Bhagwagar
 Paim Road , Civil Lines
 NAGPUR MAHARASHTRA
 Phone: 942280218
 FAX :

Agent : SHRI M. KANNAN
 C/O KIRAN HOTEL SAKOLI,
 DISTT. BHANDARA BHANDARA
 MAHARASHTRA
 Phone:
 FAX :

Mining Engineer

Name : Kumbhe R.Y., Part Time
 Qualification : B.E.Mining
 Appointment/ :
 Termination date

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		10.15 Ha is at G2 level. 1.2 Ha is at G3 Level.	
1e	Balance reserve as on 01/04/20	91140MT	82932MT as on 31.03.2019	
1f	General remarks of inspecting officers on geology, exploration etc			Geological exploration was proposed in year 2016-17 but no report or intimation is available to this office. violation is raised in this effect.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	C6-C6', C7-C7' and C8-C8'	C1-C1', C3-C3' and C8-C8'	Violation is raised in this effect.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	OB Bench- 1 metre, Ore Bench - 2-4 metre high	No sufficient advance development . Violation is raised in this effect.
2c	Stripping ratio or ore to OB ratio	114500 m3 schist and quartzite against ore 13,160 Tonnes production	Nil on against 8208 MT production	Violation is issued in this effect.
2d	Quantity of topsoil generation in m3	Nil	Nil	

2e	Quantity of overburden generation in m3	114500 m3	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Faces are not well advance. some OB handled also kept near working benches. Violation issued.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	3	3	Total six numbers of small pits available in the mines.
3b	Quantity of ROM mineral production proposed	13160 MT	8208 MT	Less due to market condition.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
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	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No	No	
3j	Provision of drilling and blasting in mineral benches	Jack hammer drilling and sequential blasting	No drilling blasting carried out. Mined through Manual breaking and loading.	

3k	Provision of mining machineries in mineral benches	The OB is in form of Top Soil /murrum will be removed by dozer and transported through excavator dumper combination.	Deployed as per requirement.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3 metre in hard rock. ob 1.5 m	Height of benches in not uniform. somewhere OB and Ore bench is merged.	Violation is raised in this effect.
3m	Total area covered under excavation/pits		covered under O/c working- 2.50 Ha, used for waste desposal- 1.20 Ha, infrastructure- 0.64 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	114500 m3 Schist & Quartzite : 13160 Ton Ore	Nil OB handled against 8208 Ore raised.	Violation is raised in this effect.
3o	Total area put in use under different heads at the end of year		covered under O/c working- 2.50 Ha, used for waste desposal- 1.20 Ha, infrastructure- 0.64 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2014-15-5786 Tonnes 2015-16-6545 tonnes 2016-17-8100 Tonnes 2017-18-11760 Tonnes 2018-19-13160 Tonnes	2014-15-NilTonnes 2015-16-3614 tonnes 2016-17-280 Tonnes 2017-18-368 Tonnes 2018-19-8208 Tonnes	
3q	General remarks of inspecting officers on method of mining etc.			OB benches are not well advanced. Boundary pillar were erected . Lease is executed upto 11.01.2030 and extension order of further 20 years granted.

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)	Separate dumping of soil, schist and waste material proposed.	Dumping done separately along the lease boundary.	
4b	Location of topsoil, OB and mineral reject dumps	Top soil-northern boundary, waste on western boundary	no waste and top soil generated during the year. but waste was lying along the boundary and some waste was lying near faces only not moved to boundary.	violation is raised in this effect.
4c	Number of dumps within lease area and outside of lease area	along the lease boundary	along the lease boundary	
4e	Number of active and alive dumps.	along the boundary of lease.	along the boundary of lease. not in shape of huge dumps. around 2 metre high in line waste is dumped along the lease boundary	
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	As waste is dumped in lease boundary not more than 2 metre high in a line so no parapet wall or drain prepared.
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			Waste is not dumped properly . all kind of material is mixed.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	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	

5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No area is matured for backfilling so backfilling not done.

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).	Annual report to be submitted by 1st July every year for preceding year.	Not submitted	Violation issued in this effect.
6b	Area available for rehabilitation (ha) .	nil	nil	
6c	afforestation done (ha).	nil	nil	
6d	No. of saplings planted during the year	nil	80	
6e	Cumulative no .of plants	1700 for plan period	840	Plantation needs to be improved.
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 (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	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	nil	nil	area not matured for backfilling.
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)	not proposed	no	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Area not matured for backfilling so no backfilling done. some plantation seen on the lease boundary.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	13160 MT	8208 MT	Less production due to adverse market scenereo.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	Manual breaking and sorting was going on.
7c	Different grade of mineral sorted out at mines.	Kyanite- 40% and above Al ₂ O ₃ Sillimanite- 30-35 % Al ₂ O ₃	Sillimanite & Kyanite	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Manual sorting of ore and waste is being practised. The Ore so generated is despatched to captive grinding unit for size reduction.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes proposed	no top soil handled during the year 2018-19	
8b	Concurrent use or storage of topsoil	Plantation	plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	separate dumps proposed. Waste will be near western boundary, Top soil generated will staccked in northern boundary.	No top soil and waste generated during the year.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Area not matured for backfilling.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Dump has not attained its height, area has not matured for backfilling
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1700 for two years	840	
8g	Survival rate	Not proposed	98 % of 80 saplings planted this year.	
8h	Water sprinkling on roads to control airborne dust	Water Tanker	Water tanker available	During inspection only manual loading was going on . so no dust was being generated.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation needs to be improved. Manual mining is going on no dust generated during inspection.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	monthly return should be submitted by `10th of every month and annual return should be submitted by 1st of july for preceding year.	Monthly return submitted upto May 19 and Annual return for year 2018-19 has been submitted .	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Mr. Kutumbe R.Y. and No mining Geologist shown	Mining Geologist has not been appointed. Violation issued in this effect.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	covered under O/c working-- 2.50 Ha., under waste desposal- 1.20 Ha, occupied by plant , road , building etc- 0.64 Ha	area is well within financial assurance limit.
9d	Scrutiny of Annual return on afforestation	Nil	as per discussion with site team 80 numbers of saplings planted which were visible on lease boundary.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generated.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	nil stock kyanite Sillimanite- 1558.075 Ton Sillimanite	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine Price- Kyanite- 1450 Rs/Ton ExMine Price- Sillimanite- 3612 Re/Ton Sale Price not given as despatched to Own Plant	
9h	Scrutiny of Annual return on fixed assets	Fixed Asset of Land and Machinery- 1280990 rupees	
9k	Scrutiny of Annual return on mining machineries	Shovel- 2.8 m3 -1 No. Tipper-2Nos	

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)	16/08/2019			
MCDR17	Rule 13(2)	16/08/2019			
MCDR17	Rule 26(2)	16/08/2019			
MCDR17	Rule 55(1)(3)	16/08/2019			

Date :

(CHANDRESH BOHRA)

Indian Bureau of Mines