

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

Review and updation of Mining Plan REPORT

Hyderabad regional office

Mine file No : AP/NLR/MC-303

Mine code : 41APR15122

- (i) Name of the Inspecting : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri G.Bharata, Sri Poona Mali Viswam-Mining Engineer
Official with
Designation
- (iv) Date of Inspection : 05/02/2021
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VASANTH KALYANI**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Underground
- (e) Postal address
State : ANDHRA PRADESH
District : NELLORE
Village : MALKALAPUNDLE
Taluka : SYDAPURAM
Post office : SYDAPURAM
Pin Code : 524407
FAX No. : 08624-223595
E-mail : kmc hotmail.co.in
Phone : 08624-222525
- (f) Police Station : KALICHEDU
- (g) First opening date : 01/04/2009
- (h) Weekly day of rest : SUN
2. Address for : M/S.KRISHNA MINING COMPANY
correspondance : Gogunenipuram, Village,
Nellatur post, Gudur-524101.
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : MICA Main

5. Name and Address of the

Lessee : M/S.KRISHNA MINING COMPANY
GOGINENIPURAM, P.B.N.O.13
GUDUR NELLORE ANDHRA
PRADESH
Phone:
FAX :

Owner : M/S.KRISHNA MINING COMPANY
GOGINENIPURAM, PB NO.13
GUDUR NELLORE ANDHRA
PRADESH
Phone:
FAX :

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 11/06/2014
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Lapsed period. No proposal	Nil	---
1b	Exploration over lease area for geological axis 1 or 2	-do-	-do-	0.15 Ha. explored in G1 level by Exploratory Mining.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-do-	Not applicable	---
1d	Balance area to be explored to bring Geological axis in 1 or 2	-do-	0.35 Ha area to be explored underground for Pegmatite.Vermiculite occurrence is incidental.	
1e	Balance reserve as on 01/04/20		Vermiculite - 50.5 tonnes	Pegmatite-506115 tonnes Mica-3655 tonnes, Quartz-48173 tonnes Feldspar-143056 tonnes
1f	General remarks of inspecting officers on geology, exploration etc			No exploratory drilling has been carried out.However Resources/Reserves has been estimated based data/information obtained from underground mining. As on date of inspection the mineralization has been proved upto 108m(10 th Level) from ground level.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Lapsed period. No proposal.	In the area proposed for mining of minor mineral from 2014-15 to 2018-19.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Lapsed period. No proposal.	Exploratory underground Mining has been done only in mineralised zone (10th level).	
2c	Stripping ratio or ore to OB ratio	Lapsed period. No proposal.	Nil	
2d	Quantity of topsoil generation in m3	Lapsed period. No proposal.	Nil	As underground mining method adopted.
2e	Quantity of overburden generation in m3	Lapsed period. No proposal.	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			As the deposit is steeply inclined and continuing in depth. Under Ground method of mining has been adopted. No stoping has been done as on date of inspection.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Lapsed period. No proposal.	Underground Mining done in 10th Level for Minor Mineral only.	
3b	Quantity of ROM mineral production proposed	Lapsed period. No proposal.	No Vermiculite Produced	405 tonnes out of which Crude Mica-14 tonnes, Scrap Mica-Nil, Quartz-945 tonnes, Feldspar-2750 tonnes, Sub Grade Ore-243 tonnes
3c	Recovery of sailable/usable mineral from ROM production	Lapsed period. No proposal.	No Vermiculite Produced.	In the year 2014-15 to 2018-19 approved document Mica @1%, Feldspar @ 30%, Quartz @10%, Vermiculite @0.01% and the total recovery is 41.01% and 60% is subgrade.
3d	Quantity of mineral reject generation	Lapsed period. No proposal.	Nil in respect of Vermiculite	243 tonnes Mineral reject of Minor Mineral produced

3e	Grade of mineral rejects generation and threshold value declared.	Lapsed period. No proposal.	No threshold value declared.	
3f	Quantity of sub grade mineral generation.	Lapsed period. No proposal.	Nil in respect of Vermiculite	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Lapsed period. No proposal.	No vermiculite produced hence not applicable.	Manual method adopted for Minor Mineral
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Lapsed period. No proposal.	Nil	
3j	Provision of drilling and blasting in mineral benches	Lapsed period. No proposal.	Jack Hammer drilling (33mm dia). Blasting by wedge cut method. 25mm dia cartridge.	
3k	Provision of mining machineries in mineral benches	Lapsed period. No proposal.	Manual Mining	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Lapsed period. No proposal.	Drive height is of 2m is suitable for manual mining.	
3m	Total area covered under excavation/pits	0.60 Ha by end of 31.03.2019. Lapsed period- 2019-20.	0.60Ha	
3n	Ore to OB ratio for the pit/mine during the year.	Lapsed period. No proposal.	Nil	
3o	Total area put in use under different heads at the end of year		3.45 Ha	

3p	Production of ROM mineral during the last five year period as applicable	Vermiculite 2015-16-Nil 2016-17-Nil 2017-18-Nil 2018-19-Nil 2019-20-Lapsed Period	Vermiculite 2015-16-Nil 2016-17-Nil 2017-18-Nil 2018-19-Nil 2019-20-Nil
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3q	General remarks of inspecting officers on method of mining etc.	As on date of inspection underground mine upto tenth level (108m bgl) has been developed.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Lapsed period. No proposal.	There is no Vermiculite Mineral Production and no SG/MR of Vermiculite.	Separate dumping of Sub Grdae Minor Mineral is being done.
4b	Location of topsoil, OB and mineral reject dumps	Lapsed period. No proposal.	There is no top soil, OB, and mineral reject dump of vermiculite.	Sub Grade Minor Mineral dump is in North part of the Mine.
4c	Number of dumps within lease area and outside of lease area	One	One	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	
4e	Number of active and alive dumps.	One	One	Minor mineral SG dump and one small stack yard of scrap Mica.
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Lapsed Period. No Proposal.	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Lapsed period. No proposal.	Not done	
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Not applicable	

4j	Number of settling ponds	Lapsed period. Nil No proposal.	
4k	Specific comments of inspecting officer on waste dump management		There is no waste dump in the mine, but one Minor Mineral Sub Grade dump is there.

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.	Lapsed period. Nil No proposal		
5b	Area under backfilling of mined out area	Lapsed period. Nil No proposal		
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Lapsed period. Nil No proposal		There is no top soil generation as Mining is being carried out by UG Mining method.
5d	Total area fully reclaimed and rehabilitated	Lapsed period. Nil No proposal		
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Till date exploratory mining details the Micaceous Pegmatite is continuing upto 108m below the ground and stoping is yet to be done to extract the entire mineral.As of now no portion of the lease area is matured to start back filling.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted	Not submitted.	Violation issued u/r 26(2) of mCDR-2017.
6b	Area available for rehabilitation (ha) .	Lapsed Period. No proposal.	Nil	
6c	afforestation done (ha).	Lapsed period.No proposal	Not done	
6d	No. of saplings planted during the year	Lapsed period. No proposal	Not done	
6e	Cumulative no .of plants	1000 from 2014-15 to 2018-19.	1000 from 2014-15 to 2018-19.	2.50 Ha cumulative Fruit Garden area.
6f	Any other method of rehabilitation	Lapsed period. No proposal	Not done.	Lessee has developed fruit garden in the mining lease area and also planting trees in 7.5 m saety barrier zone of the ML.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Lapsed period. No proposal	Not done	Mineral is yet to be Stoped completely from the underground.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Lapse Period. No Proposal.	Not done.	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Lapse Period. No Proposal.	Not done.	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Lapse Period. No Proposal.	Not applicable as making water reservoir in under ground mine is not possible.	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Lapsed Period. No Proposal.	Not done.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Lapsed Period. No Proposal.	Not done.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Lapsed Period. No Proposal.	Not done.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Lapsed Period. No Proposal.	Not done.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Lapsed Period. No Proposal.	Not done.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Lessee has developed Fruit Garden(2.5 Ha) in the Mining Lease area and also planting trees in 7.5m safety barrier zone of the ML.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Lapsed period. No proposal	Vermiculite not produced during 2019-20.	No grade wise sorting for vermiculite. Minor mineral Mica is being sorted manually as crude Mica and scrap mica.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Lapsed period. No proposal	No production of Vermiculite during 2019-20.	Manual for Minor Mineral
7c	Different grade of mineral sorted out at mines.	Lapsed period. No proposal	Not applicable in respect of Vermiculite.	
7d	Any beneficiation process at mines	Lapsed period. No proposal	Not done.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Vermiculite occurrence is incidental. All the minor minerals being produced underground is brought to the surface and nothing is being left out underground.

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Lapsed period. No proposal.	Nil	
8b	Concurrent use or storage of topsoil	Lapsed period. No proposal.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Lapsed period. No proposal.	No dump in respect of production of Vermiculite Mineral.	Separate minor mineral sub grade dump exists.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Lapsed period. Not done No proposal.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Lapsed period. Not done No proposal.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Lessee has developed a fruit garden within the lease
8h	Water sprinkling on roads to control airborne dust	Not applicable	Being done when required at surface.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Lessee has developed Fruit Garden in the Mining Lease area and also planting trees in 7.5m safety barrier zone of the ML to improve the aesthetic beauty of the mine.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR and AR to be submitted	M.R. and AR Submitted up to date.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mamidala Prasad-Manager Mining Engineer-Nil Geologist-Nil	Mine Foreman- Mamidala Prasad appointed, Mining Engineer -Sri Poona Malli Viswam appointed, Geologist-Not appointed. Lessee has been advised to appoint Geologist.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	3.45 Ha	3.45 Ha
9d	Scrutiny of Annual return on afforestation	Nil	200 nos
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil for Vermiculite	Nil for Vermiculite
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil for Vermiculite	Nil for Vermiculite
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil for Vermiculite.	Nil for Vermiculite as no Vermiculite has been produced during 2019-20.
9h	Scrutiny of Annual return on fixed assets	Nil	Details not furnished by Lessee. Lessee has been advised to submit.
9k	Scrutiny of Annual return on mining machineries	Nil	Details not furnished by Lessee. Lessee has been advised to submit.

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

Date :

(S K MUDULI)

Indian Bureau of Mines