

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

Review and updation of Mining Plan REPORT

Hyderabad regional office

Mine file No :

Mine code : 41APR15178

- (i) Name of the Inspecting : M001) S K MUDULI
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : P.R.Mishra, QP
Official with
Designation
- (iv) Date of Inspection : 07/01/2020
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : SRI SATHYA SAI MICA MINE
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : NELLORE
- Village : GOKULA BRUNDAVANAM
- Taluka : SYDAPURAM
- Post office : SYDAPURAM
- Pin Code : 524409
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** :
- (g) **First opening date** : 01/04/2013
- (h) **Weekly day of rest** : SUN
2. **Address for** :
- correspondance**
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 : SRI KALYANARAMA COMPANY
SRI KALYANARAMA COMPANY
KALICHEDU(P.O) SYDAPURAM(M)
NELLORE ANDHRA PRADESH
Phone:
FAX :

6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No approved proposal for the period 2018-19.	Nil	Two trial pits each of dimension 6m X 3m X 3m and two nos DTH bore holes of 30m each, and 4 nos wall sample during 2019-20 for the purpose of approval of mining plan. Further there is no mining plan document approved by IBM since from 2014-15 for which violation under rule 11(1) of MCDR-2017 was issued on 15.07.2019.
1b	Exploration over lease area for geological axis 1 or 2	No approved proposal for the period 2018-19.	Nil	Mining Pit area is 0.7258 Ha.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No approved proposal for the period 2018-19.	Nil during 2018-19	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No approved proposal for the period 2018-19.	Except mining pit area balance lease area needs to be explored in G1 level.	
1e	Balance reserve as on 01/04/20		Vermiculite occurrence is incidental and in the approved mining plan dated 28.10.2008 no reserves/resources of vermiculite and Garnet was been approved. However Reserves of Mica-10500 tonnes, Quartz-1,05,000 tonnes, Feldspar-3,15,000 tonnes was approved.	

1f	General remarks of inspecting officers on geology, exploration etc	The host rock is schist intruded by Pegmatite. The Mining lease has been granted for minerals Quartz, Feldspar, Mica, Vermiculite, Garnet. The Strike length of Pegmatite body is 200m with average width-30m.
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Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	No approved proposal for the period 2018-19.	Nil	There is no mining plan document approved by IBM since from 2014-15. However state DMG has approved Mining Scheme for the period 2016-17 to 2018-19 for minor mineral only and the mine was operational from 2016-17 to 2018-19. There is one mining pit having dimension of 119m X 71 m X 20 m and Mica, Quartz and Feldspar has been produced from the mine.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No approved proposal for the period 2018-19.	Benches developed in minor mineral only.	
2c	Stripping ratio or ore to OB ratio	No approved proposal for the period 2018-19.	Nil	
2d	Quantity of topsoil generation in m3	No approved proposal for the period 2018-19.	Nil	

2e	Quantity of overburden generation in m ³	No approved proposal for the period 2018-19.	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			There is one Open cast mining pit having dimension of 119m X 71 m X 20 m and Mica ,Quartz and Feldspar has been produced from the mine during 2016-17 to 2018-19.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	In the first Mining Plan it was proposed to develop the mine by underground method.	Lessee tried to develop the UG mine but not successful due to non profitability. Right now the mining is being done by open cast mining method from one pit having dimension of 119m X 71 m X 20 m.	
3b	Quantity of ROM mineral production proposed	No approved proposal for the period 2018-19.	Nil	
3c	Recovery of saleable/usable mineral from ROM production	No approved proposal for the period 2018-19.	No mining of Vermiculite has been done	In the last approved mining plan by IBM the approved recovery of Quartz is 10%, Mica-1%, Feldspar-30%.
3d	Quantity of mineral reject generation	No approved proposal for the period 2018-19.	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No approved proposal for the period 2018-19.	Not applicable	
3f	Quantity of sub grade mineral generation.	No approved proposal for the period 2018-19.	Nil	

3g	Grade of sub grade mineral generation	No approved proposal for the period 2018-19.	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	No approved proposal for the period 2018-19.	No mining of vermiculite and no segregation of Vermiculite ROM is being done.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No approved proposal for the period 2018-19.	Nil
3j	Provision of drilling and blasting in mineral benches	No approved proposal for the period 2018-19.	Mining for minor mineral is being done by deploying 32mm Jack Hammer Drill. 3 m bench height in two slices each of 1.5m, spacing-0.8m, burden-0.8m.
3k	Provision of mining machineries in mineral benches	No approved proposal for the period 2018-19.	Manual Pen Cast Mining.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No approved proposal for the period 2018-19.	Not applicable
3m	Total area covered under excavation/pits	No approved proposal for the period 2018-19.	Mining Pit area is 0.7258 Ha.
3n	Ore to OB ratio for the pit/mine during the year.	No approved proposal for the period 2018-19.	No vermiculite produced.
3o	Total area put in use under different heads at the end of year	No approved proposal for the period 2018-19.	About 2Ha

3p	Production of ROM mineral during the last five year period as applicable	2014-15-Lapsed Period 2015-16-Lapsed Period 2016-17-Document approved by State for Minor Mineral 2017-18-Document approved by State for Minor Mineral 2018-19-Document approved by State for Minor Mineral	2014-15-Nil in respect of Vermiculite and Garnet. 2015-16-Nil in respect of Vermiculite and Garnet. 2016-17-Nil in respect of Vermiculite and Garnet.Production details of minor mineral not available in AR. 2017-18-Nil in respect of Vermiculite and Garnet.Production details of minor mineral not available in AR. 2018-19-Nil in respect of Vermiculite and Garnet.Production details of minor mineral not available in AR.	
3q	General remarks of inspecting officers on method of mining etc.			Presently Opencast Method of Mining.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No approved proposal for the period 2018-19.	During inspection two dumps of mineral reject have been found within the mining lease over an combined extent of 0.70 Ha	
4b	Location of topsoil, OB and mineral reject dumps	No approved proposal for the period 2018-19.	Out side UPL	
4c	Number of dumps within lease area and outside of lease area	No approved proposal for the period 2018-19.	2 nos within the lease.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No approved proposal for the period 2018-19.	Out side the UPL.	
4e	Number of active and alive dumps.	No approved proposal for the period 2018-19.	Two nos active dump	

4f	Number of dead dumps.	No approved proposal for the period 2018-19.	Nil	
4g	Number of dumps established.	No approved proposal for the period 2018-19.	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No approved proposal for the period 2018-19.	Nil.Advised to make retaining wall and garland drain	
4i	Length of Retaining wall or garland drain all along dumps	No approved proposal for the period 2018-19.	Not applicable	
4j	Number of settling ponds	No approved proposal for the period 2018-19.	Nil.Advised to construct.	
4k	Specific comments of inspecting officer on waste dump management			Retaining wall and Garlan drain to be constructed.

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.	No approved proposal for the period 2018-19.	No part of the mining lease area is exhausted of mineral, hence not maturd to start back filling.	
5b	Area under backfilling of mined out area	No approved proposal for the period 2018-19.	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No approved proposal for the period 2018-19.	Nil	
5d	Total area fully reclaimed and rehabilitated	No approved proposal for the period 2018-19.	Nil	No part of the mining lease area is exhausted of mineral, hence not maturd to start back filling.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	No part of the mining lease area is exhausted of mineral, hence not maturd to start back filling.
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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).	No approved proposal for the period 2018-19.	Not submitted	There is no approved mining plan document from 2014-15.
6b	Area available for rehabilitation (ha) .	No approved proposal for the period 2018-19.	Nil	No part of the mining lease area is exhausted of mineral, hence not maturd to start back filling.
6c	afforestation done (ha).	No approved proposal for the period 2018-19.	Nil	-do-
6d	No. of saplings planted during the year	No approved proposal for the period 2018-19.	Nil	-do-
6e	Cumulative no .of plants	No approved proposal for the period 2018-19.	Nil	-do-
6f	Any other method of rehabilitation	No approved proposal for the period 2018-19.	Nil	-do-
6g	Cost incurred on watch and care during the year	No approved proposal for the period 2018-19.	Nil	-do-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No approved proposal for the period 2018-19.	Nil	-do-

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No approved proposal for the period 2018-19.	Nil	-do-
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No approved proposal for the period 2018-19.	Nil	-do-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No approved proposal for the period 2018-19.	Nil	-do-
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No approved proposal for the period 2018-19.	Nil	-do-
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No approved proposal for the period 2018-19.	20 nos during 2018-19.	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No approved proposal for the period 2018-19.	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No approved proposal for the period 2018-19.	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	No approved proposal for the period 2018-19.	Environmental Monitoring being Carried out.	

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	35 nos of sapling has been planted during 2017-18 and 2018-19.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No approved proposal for the period 2018-19.	No Vermiculite and Garnet Mineral despatched.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No approved proposal for the period 2018-19.	Nil in respect of Vermiculite and Garnet Mineral.	
7c	Different grade of mineral sorted out at mines.	No approved proposal for the period 2018-19.	Not applicable in respect of Vermiculite and Garnet Mineral	
7d	Any beneficiation process at mines .	No approved proposal for the period 2018-19.	No beneficiation within the lease for Vermiculite and Garnet Mineral. Except manual separation of Quartz, Feldspar and Mica there is no other processing.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Except manual separation of Quartz, Feldspar and Mica there is no other processing.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No approved proposal for the period 2018-19.	Top soil whenever is produced is being utilised for Green Belt developement.	

8b	Concurrent use or storage of topsoil	No approved proposal for the period 2018-19.	For Green Belt developement.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No approved proposal for the period 2018-19.	Only for Mineral Rejects.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No approved proposal for the period 2018-19.	Minor Mineral Mineral rejects being Stored as there is no market.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No approved proposal for the period 2018-19.	20 nos of saplling have been planted during 2018-19.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No approved proposal for the period 2018-19.		35 nos planted during 2017-18 and 2018-19.
8h	Water sprinkling on roads to control airborne dust	No approved proposal for the period 2018-19.	Being carried by deploying water tanker fitted with water sprinkler.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Green belt is being developed to increase the aestetic 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.	Submitted.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	To be submitted.	Geologist and Mining Engineer not appointed.	Advised to appoint.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	To be submitted.	Submitted.	
9d	Scrutiny of Annual return on afforestation	To be furnished.	Furnished.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	To be furnished	Furnished as Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	To be furnished	Furnished as Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	To be furnished	Furnished as Nil	
9h	Scrutiny of Annual return on fixed assets	To be furnished	Furnished as Nil	
9k	Scrutiny of Annual return on mining machineries	To be Furnished.	Furnished.	

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