

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

**Mining Plan Modification REPORT**

**Hyderabad regional office**

**Mine file No :** AP/NLR/FELS-22

**Mine code :** 41APR15109

- (i) Name of the Inspecting : **DP09** ) **D.P.Ravi kumar**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : S/SHRI P.VISWAM, QP AND K. SURESH KUMAR REDDY, MAN  
Official with  
Designation
- (iv) Date of Inspection : 16-JUL-21
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **GANGAMMA GANI**
- (b) **Registration NO.** : **IBM/1095/2011**
- (c) **Category** : **B Manual**
- (d) **Type of Working** : **Underground**
- (e) **Postal address**
- State : **ANDHRA PRADESH**
- District : **NELLORE**
- Village : **MUTHYALA PADU**
- Taluka : **CHILLAKUR**
- Post office : **CHILLAKUR**
- Pin Code :
- FAX No. : **Null**
- E-mail : **sadhanaminerals@gmail.com**
- Phone : **9849056209**
- (f) **Police Station** : **SYDAPURAM**
- (g) **First opening date** : **01-JAN-05**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **CHAGANAM VILLAGE, SYDAPURAM MANDAL**  
**correspondance** : **SPSR NELLORE DISTRICT, ANDHRA PRADESH**
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : **MICA** Main
- VERMICULITE** Associated
- FELSPAR** Associated
- QUARTZ** Associated

## 5. Name and Address of the

Lessee : M/SSADANA MINERALS  
NELLORE ANDHRA PRADESH  
Phone:  
FAX :

Owner : M/S.SADHANA MINERALS  
1/166,MASTANVALI COMPLEX  
ANIL NAGAR CHILLAKUR  
NELLORE ANDHRA PRADESH  
Phone: 08624-221264  
FAX :

Agent : V.SIVARAMI REDDY  
SADHANA MINERALS, CHILLA  
KUR NELLORE DIST NELLORE  
ANDHRA PRADESH  
Phone:  
FAX :

## Manager

Name : V.SIVA KUMAR  
Qualification : D,M,E  
Appointment/ : 18-OCT-09  
Termination date

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	Lapsed period, no proposal.	Nil	---
1b	Exploration over lease area for geological axis 1 or 2	Lapsed period, no proposal	None	0.730 ha., explored in G1 level by exploratory mining.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	None	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	None	0.33 Ha area to be explored underground for pegmatite.
1e	Balance reserve as on 01/04/20		As on 01.04.2021, the Vermiculite reserves are = 4238 t.	
1f	General remarks of inspecting officers on geology, exploration etc			Pegmatite and Quartz veins are mostly intrusive in to schistose series of rocks along the foliation planes or structurally weak zones. As on date of inspection, the mineralization has been proved up to 10 th(108 m) level by underground mining method.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Lapsed period, no proposal	Under ground mining is being done between grid E 360300 to E 360400 and N 1572150 to N1572200 of southern part of the lease area.	Under ground mining is being done between grid E 360300 to E 360400 and N 1572150 to N1572200 of southern part of the lease area.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Lapsed period, no proposal	Exploratory underground mining has been done only in mineralized zone for minor minerals (10th Level).	Nil
2c	Stripping ratio or ore to OB ratio	Lapsed Period, No proposals.	Nil	
2d	Quantity of topsoil generation in m3	Lapsed period no proposals	Nil	As under ground mining method adopted.
2e	Quantity of overburden generation in m3	Lapsed period no proposal.	Nil	

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Lapsed period, No proposal	Underground mining is done in 10th level for minor minerals only.	
3b	Quantity of ROM mineral production proposed	Lapsed period, no proposal.	No vermiculite produced.	
3d	Quantity of mineral reject generation	Lapsed period, no proposal.	Nil, in respect of vermiculite	
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	Nil	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Lapsed period, no proposal.	No Vermiculite is produced hence not npt applicable.	Manual method adopted for minor mineral.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	
3j	Provision of drilling and blasting in mineral benches	Lapsed period, no proposal.		Jack hammer drilling (33 mm dia)and blasting by Wedge cut method. 25 mm 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 2mts and suitable for manual mining.	
3m	Total area covered under excavation/pits		No pits are made during this period(lapse period 2020-21). The total pit area covered : 0.730 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	None	None	
3o	Total area put in use under different heads at the end of year		2.808 ha.	Nil

3p	Production of ROM mineral during the last five year period as applicable	Vermiculite 2016-17:-Nil 2017-18 :- Nil 2018-19:-Nil 2019-20:-Nil 2020-21:- Lapsed period.	Vermiculite 2016-17:-Nil 2017-18 :- Nil 2018-19:-Nil 2019-20:-Nil 2020-21:-Nil
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3q	General remarks of inspecting officers on method of mining etc.	As on date of inspection underground mine up to 10th level ( 110 mts ) 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 Vermiculite Mineral Production and no SG /MR of Vermiculite.	Separate dumping of Sub- Grade 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 Northwest part of the mine.
4c	Number of dumps within lease area and outside of lease area		7	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond ultimate pit limit	Beyond ultimate pit limit	
4e	Number of active and alive dumps.	7	7	Minor mineral sub grade dump-01, Mica scrap dump-2, Waste dump-4
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Lapsed period no proposal	Nil	

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4h	Whether Retaining wall or garland drain all along dumps are there.	None	None	
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Not applicable	
4j	Number of settling ponds	Lapsed period no proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			There are four waste dumps in the mine and one minor sub grade dump and two mica scrap dumps.

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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 no proposal	Nil	
5b	Area under backfilling of mined out area	Lapsed period no proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Lapsed period no proposal	Nil	There is no top soil generation as mining is being carried out by underground mining method
5d	Total area fully reclaimed and rehabilitated	Lapsed period, no proposal.	Nil	

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	Till date exploratory mining details the Micaceous pegmatite is continues up to 110 mts below ground level 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 backfilling. So there is no proposal for stoping in this period.
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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).	None	None	
6b	Area available for rehabilitation (ha) .	Lapsed period, Nil No proposal.		
6c	afforestation done (ha).	Lapsed period, Not done no proposal		
6d	No. of saplings planted during the year	Lapsed period, Not done. no proposal.		
6e	Cumulative no .of plants			500 cumulative neem plants in 1.00 ha., have been observed during the inspection.



6f	Any other method of rehabilitation	Lapsed period, no proposal.	Not done	Lessee has developed plantation in the mining lease area and also planted trees in 7.5 mts safety Zone of the ML.
6g	Cost incurred on watch and care during the year	None	None	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	Lapsed period, no proposal	Not done	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Lapsed period, no proposal	Not done	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Lapsed period, no proposal	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Lapsed period	Nil	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	Lapse period. No proposal.	Not done.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Lapse period. No proposal.	Not done	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Lapse period. No proposal.	Not done	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Lapse period. No proposal.	Not done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Lessee has developed neem garden (1.0 Ha)., in the Mining lease area and also planting trees in 7.5 m safety BARRIER zone of the M.L area.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Lapsed period, no proposal.	Vermiculite not produced during the year 2020-21	No grade wise sorting of vermiculite. Minor mineral mica is being sorted out manually as crude mica and scrap mica.

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Lapsed period, no proposal.	There is no Vermiculite production during the year 2020-21.	Manual for minor minerals.
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			Minor mineral mica is being sorted out manually as crude mica and scrap mica.

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**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, no proposal	Not done.	

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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 neem garden within the lease area.
8g	Survival rate		Survival rate is 80%
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 neem garden in the mining lease area and also planted trees in 7.5 m safety zone of the M.L to improve the green belt.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly & Annual Returns are being regularly submitted by the lessee.	Monthly & Annual Returns being submitted regularly.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager: Dodlavaram Siva Kumar Mining Engineer: Nill Geologist: Nill	Mine Foreman: Dodlavaram Siva Kumar appointed. Mining Engineer and Geologist not appointed. Lessee is advised to appoint the both.	

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	3.046 Ha	3.046 Ha	
9d	Scrutiny of Annual return on afforestation	Nil	100 numbers of cumulative neem trees were planted in the lease area.	It is observed that lessee has 100 numbers of cumulative neem trees were planted in the lease area.
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 2020-21	
9h	Scrutiny of Annual return on fixed assets	Nil	Details not furnished by lessee. Lessee has been advised to to submit.	
9k	Scrutiny of Annual return on mining machineries	Nil	Details not furnished by lessee. Lessee has been advised to submit.	

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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 :**

(D.P.Ravi kumar)

Indian Bureau of Mines