

**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-441

Mine code : 41APR15157

- (i) Name of the Inspecting : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 06/02/2021
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHAGANAM(22.585 HA)**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : ANDHRA PRADESH
District : NELLORE
Village : CHAGANAM
Taluka : SYDAPURAM
Post office : CHAGANAM
Pin Code : 524407
FAX No. :
E-mail : animinesandminerals@gmail.co
Phone : 08612309699.9494647747
- (f) Police Station : SYDAPURAM
- (g) First opening date : 06/08/2009
- (h) Weekly day of rest : SUN
2. Address for : CHAGNAM VILLAGE
correspondance SYDAPURAM MANDAL
NELLORE DISTRICT
3. (a) Lease Number : APR2984
- (b) Lease area : 22.58
- (c) Period of lease : 20
- (d) Date of Expiry : 04/03/2030
4. Mineral worked : MICA Main
VERMICULITE Associated
FELSPAR Associated
QUARTZ Associated

5. Name and Address of the

Lessee : ANI MINES AND MINERALS
NELLORE ANDHRA PRADESH
Phone:
FAX :

Owner : SMT. VL PRASANNA
H.NO.27-2-1850-4,NEAR
CHILDREN PARK 9TH LANE
RAMAJINAGAR, SPSR NELLORE
DISTRICT. NELLORE ANDHRA
PRADESH
Phone: 08612309699
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960 22/05/2009
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There is no Review of Mining Plan approved by IBM for the year 2019-20.	14 nos DTH bore holes drilled in 2018-19.	However the Scheme of Mining for for 2016-17 to 2019-20 for mineral Mica, Quartz, Feldspar was approved by DDGM-Guntur vide letter no 2560/MS/NLR/2016 Dated 09.02.2017.
1b	Exploration over lease area for geological axis 1 or 2	-do-	About 3 Ha has been explored in G1 level by means of 6 nos of Mining Pits and 14 nos of DTH bore holes.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-do-	About Rs 100000.00 in 2018-19.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	-do-	About 19.50 Ha to be explored.	
1e	Balance reserve as on 01/04/20	-do-	Vermiculite-430416 tonnes in 121 and 122category as per the MMP approved by IBM on 30.03.2021.	Mica-3505 tonnes, Quartz-176827 tonnes as per the MMP approved by IBM on 30.03.2021.
1f	General remarks of inspecting officers on geology, exploration etc			Vermiculite occurs at the contact zone of the Micaceous Schist and Pegmatite.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	There is no Review of Mining Plan approved by IBM for the year 2019-20.	Vermiculite Pit has been developed near BP-10.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	-do-	No separate benches observed in top soil. Benches have been developed only in Mineral.	

2c	Stripping ratio or ore to OB ratio	-do-	1551 Cu.M waste produced against 2595 tonnes during 2019-20	
2d	Quantity of topsoil generation in m3	-do-	Nil	
2e	Quantity of overburden generation in m3	-do-	1551 Cu.M waste	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			There are in total 6 nos of pits.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	There is no Review of Mining Plan approved by IBM for the year 2019-20.	6 nos of pits.	As per the last Scheme of Mining approved by IBM on 22.05.2009 there are 5 nos of pits.
3b	Quantity of ROM mineral production proposed	There is no approved Review of Mining Plan.	Nil	
3c	Recovery of sailable/usable mineral from ROM production	-do-	No vermiculite production in 2019-20.	As per the MMP approved by IBM on 30.03.2021- Vermiculite recovery is 95%.
3d	Quantity of mineral reject generation	-do-	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	There is no approved Review of Mining Plan.	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	

3h	Manual / Mechanised method adopted for segregating from ROM	There is no approved Review of Mining Plan.	Manually
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	There is no approved Review of Mining Plan.	Nil
3j	Provision of drilling and blasting in mineral benches	There is no approved Review of Mining Plan.	Drilling and blating is being done in Pegmatite by deploying 115mm dia wagon drill, Burden- 3m, Spacing-4.5m, Depth of Hole-6.6m, Slurry Explosive: ANFO=20:80. Ver miculite is soft and does not require blasting.
3k	Provision of mining machineries in mineral benches	-do-	Mining is being done by Excavator and Dumper combination.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	-do-	Yes
3m	Total area covered under excavation/pits	-do-	About 2.75 Ha
3n	Ore to OB ratio for the pit/mine during the year.	-do-	1551 Cu.M waste produced against 2595 tonnes during 2019-20
3o	Total area put in use under different heads at the end of year	-do-	About 6 Ha.

3p	Production of ROM mineral during the last five year period as applicable	Vermiculite 2015-16-No RMP approved by IBM 2016-17-No RMP approved by IBM 2017-18-No RMP approved by IBM 2018-19-No RMP approved by IBM 2019-20-No RMP approved by IBM	Vermiculite 2015-16-Nil 2016-17-700 tonnes 2017-18-25 tonnes 2018-19-Nil 2019-20-Nil	
3q	General remarks of inspecting officers on method of mining etc.			Opencast Mechanised method of Mining has been adopted.UG mining operation is at initial stage and stopped.Safety precautionary measures have been taken as per the instruction of DGMS.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no Review of Mining Plan approved by IBM for the year 2019-20.	Separate dumping of waste is being done.	
4b	Location of topsoil, OB and mineral reject dumps	-do-	No top soil dump.Only 8 nos waste dumps are there within the ML.	
4c	Number of dumps within lease area and outside of lease area	-do-	Eight waste dumps	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	-do-	Within UPL.	
4e	Number of active and alive dumps.	-do-	Eight waste dumps	
4f	Number of dead dumps.	-do-	Nil	

4g	Number of dumps established.	-do-	Eight waste dumps	
4k	Specific comments of inspecting officer on waste dump management			There are 8 waste dumps and as the dumps are lying within the UPL the part of waste dumps to be relocated.

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.	There is no Review of Mining Plan approved by IBM for the year 2019-20.	Nil	
5b	Area under backfilling of mined out area	-do-	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	-do-	No generation of top soil during 2019-20.	
5d	Total area fully reclaimed and rehabilitated	-do-	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mineral is yet to be extracted and as of now no portion of the Mining Lease is matured to start back filling.

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).	To be submitted	Submitted.	

6b	Area available for rehabilitation (ha) .	-do-	Nil
6c	afforestation done (ha).	-do-	0.05Ha
6d	No. of saplings planted during the year	-do-	30 nos
6f	Any other method of rehabilitation	-do-	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	-do-	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	-do-	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	-do-	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	-do-	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	-do-	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	-do-	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	-do-	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	-do-	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	-do-	Environmental Monitoring has not been done.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environmental Monitoring and Plantation activity needs to be taken up as a part of Progressive Closure Operation.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	There is no Review of Mining Plan approved by IBM for the year 2019-20.	Being done for Minor Mineral.No sorting in respect of Vermiculite.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	-do-	Manual for Minor Mineral.No sorting is being done for Vermiculite.	
7c	Different grade of mineral sorted out at mines.	-do-	Sorting has not been done in respect of Vermiculite.	
7d	Any beneficiation process at mines .	-do-	Nil.Only Manual seggregation/grading in respect of minor mineral.	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Only manual segregation and grading is being done in respect of Minor Mineral. Vermiculite is directly saleable in market..
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is no Review of Mining Plan approved by IBM for the year 2019-20.	During 2019-20 there is no generation of Top soil.	
8b	Concurrent use or storage of topsoil	-do-	During 2019-20 there is no generation of Top soil.	Earlier being utilised for planation.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	-do-	Eight nos of waste dump has been observed.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	-do-	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	-do-	Nil	
8h	Water sprinkling on roads to control airborne dust	-do-	Water Sprinkling is being done.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation activity needs to be taken up along the 7.5m safety barrier zone of the ML boundary for improving the aesthetic beauty of the mine.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted	Submitted for 2019-20.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist-Not appointed	Mining Engineer and Geologist-Not appointed V.Ashok Kumar-Manager	Lessee has been advised to appoint Mining Engineer and Geologist.
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	Nil	Nil	
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	To be submitted	Submitted	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	NIL	Nil as no production of Vermiculite.	
9h	Scrutiny of Annual return on fixed assets	Nil	Nil as reported by Lessee	

9k	Scrutiny of Annual return on mining machineries	To be submitted	Submitted.
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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