

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/NLR/FELS-22

Mine code : 41APR15109

- (i) Name of the Inspecting : **M029**) **MADHU SUDHAN YADAV M**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri. V. Sivarami Reddy, Partner & Sri.R.Puneeth, Geol
Official with
Designation
- (iv) Date of Inspection : 20-JUN-23
- (v) Prev.inspection date : 29-OCT-09

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 : **CHAGANAM**
Taluka : **CHILLAKUR**
Post office : **CHILLAKUR**
Pin Code :
FAX No. : **Nill**
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 : MP modif under 17(3) MCR 2016 10-AUG-21
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 proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	2021-22 - 01 Trench & Test hole at 10th level. 2022-23 - 01 Trench & Test hole at 11th level.	Trenches not made by the lessee. Violation pointed out as per rule.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per the MMP approved on 10-08-2021, G1-0.48 Ha & mineralized area is 0.3 Ha	Exploration not carried out to bring the entire lease into G1 level of exploration. Violation pointed out as per rule.	
1e	Balance reserve as on 01/04/20	----	Proved mineral reserves (111) as per MMP approved on 10.08.2021- Vermiculite - 4238 Te Pegmatite - 16237 Te	
1f	General remarks of inspecting officers on geology, exploration etc			Mineralisation is proved upto 12th level by underground exploratory mining

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Underground: 2021-22 - 224 meters of development in 10th& 11th level. 2022-23 - 224 meters of development in 11th& 12th level. Opencast (Pit-2): 2021-22 : Along section X-X'. 2022-23: Along section X-X'. Co-ordinates : E360100- E360150 N1572290- N1572350	Work done within the proposed levels and co-ordinates, whereas less development work carried out. Violation point out as per Rule.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches to be maintained in Topsoil, OB and mineral	Pit was in the initial stage of development.	
2c	Stripping ratio or ore to OB ratio	2021-22 - 1:0.62 2022-23 - 1:1.47	Pit was in the initial stage of development. Overburden removed details not reported. Violation pointed out as per Rule.	
2d	Quantity of topsoil generation in m3	2021-22 - 544 MT 2022-23 - 268 MT	2021-22 - Nil 2022-23 - Nil	Violation pointed out as per Rule for not maintaining the records for topsoil generation and its utilisation.
2e	Quantity of overburden generation in m3	2021-22 - 443 MT 2022-23 - 1060 MT	2021-22 - Nil 2022-23 - Nil	Violation pointed out as per Rule for not maintaining the records for overburden generation and its utilisation.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Mining pit were not developed systematically. Topsoil & OB were not removed and stacked separately as per proposal.	Openpit was in the initial stage of development. Underground development done upto 12th level.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Open pit - 02 Nos. Underground - 01 No.	Open pit - 02 Nos. Underground - 01 No.	
3b	Quantity of ROM mineral production proposed	Pit-1(Underground): 2021-22 - 224 meters 2022-23 - 254 meters Pit-2(Opencast): 2021-22 - 1575 MT 2022-23 - 900 MT	Pit-1(Underground): 2021-22 - 142 meters 2022-23 - 148 meters Pit-2(Opencast): 2021-22 - 400 MT 2022-23 - 425 MT	Violation pointed out for not carrying out development and production as per proposal and not maintaining the ROM production register.
3c	Recovery of sailable/usable mineral from ROM production	Opencast: Vermiculite - 70%. Underground (Pegmatite): Feldspar - 60% Quartz - 15% Mica - 8%	ROM register and grade wise recovery records were not maintained by the lessee. Violation pointed out as per Rule.	
3d	Quantity of mineral reject generation	Vermiculite: 2021-22 - 473 MT 2022-23 - 270 MT	No mineral reject record maintained. Violation pointed out as per Rule.	
3e	Grade of mineral rejects generation and threshold value declared.	Grade of mineral reject of vermiculite not proposed in the MMP	Records for Grade of mineral reject of vermiculite were not maintained. Violaiton pointed out as per Rule.	
3f	Quantity of sub grade mineral generation.	Pegmatite - 2021-22 - 380.8 MT 2022-23 - 482.8 MT	No subgrade generation record maintained. Violation pointed out as per Rule.	
3g	Grade of sub grade mineral generation	Grade of sub-grade not proposed in the mineral generation	Records for Grade of mineral reject of vermiculite were not maintained. Violaiton pointed out as per Rule.	
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 proposal	Nil
3j	Provision of drilling and blasting in mineral benches	1. Manual method of mining proposed for openpit mining. 2. Jack hammer drilling & blasting proposed in underground mine.	1. Manual method of mining being carried out in openpit. 2. Jack hammer drilling & blasting done in underground mining.
3k	Provision of mining machineries in mineral benches	No proposal	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	1.5 m height & 1.5 m width proposed in the mineral benches	Pit is in initial stage of development.
3m	Total area covered under excavation/pits	Till 2024-25: Opencast - 0.553 Ha Underground - 0.33 Ha	Lease area utilisation submitted in the annual return and digital aerail images were not matching with the field conditions. Violation pointed out as per Rule.
3n	Ore to OB ratio for the pit/mine during the year.	2021-22 - 1:0.62 2022-23 - 1:1.47	Pit was in the initial stage of development. Overburden removed details not reported. Violation pointed out as per Rule.

3o	Total area put in use under different heads at the end of year) OC Working - 0.553Ha ii) UG working - 0.33 Hs iii) Waste Dump Site- 0.34 Ha iii) Infrastructure - 0.2 Ha iv) Roads - 0.25 Ha v) Sub-grade dump-0.118 Ha vi) Mineral reject - 0.035 Ha vii) Magazine - 0.02 Ha Total Area - 2.046 Ha	i) OC Working - 0.19 Ha ii) UG Working - ii) Waste Dump Site -0.8 Ha iii) Infrastructure & Road -0.418 Ha Total Area - 1.48Ha	Lease area utilisation submitted in the annual return and digital aerial images were not matching with the field conditions. Violation pointed out as per Rule.
3p	Production of ROM mineral during the last five year period as applicable	Opencast & Underground: 2018-19 - Nil 2019-20 - Nil 2020-21 - Nil 2020-21 - Nil Opencast: 2021-22 - 1575 MT 2022-23 - 900 MT Underground: 2021-22 - 2240 MT 2022-23 - 2840 MT	Opencast & Underground: 2018-19 - Nil 2019-20 - Nil 2020-21 - Nil Opencast: 2021-22 - 425 Te 2022-23 - 400 Te Underground: 2021-22 - 142 meters 2022-23 - 148 meters	Violation pointed out for not carrying out development and production as per proposal and not maintaining the ROM production register.
3q	General remarks of inspecting officers on method of mining etc.			Violation pointed out for not carrying out development and production as per proposal and not maintaining the ROM production register.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed to dump mineral reject, sub-grade separately	Mineral reject & sub-grade dumped separately but records were not maintained. Violation pionted out as per Rule.	

4b	Location of topsoil, OB and mineral reject dumps	Mineral reject, waste & sub-grade to be dumped within the lease area.	Mineral reject, waste & sub-grade maintained within the lease area.	
4c	Number of dumps within lease area and outside of lease area	07 dumps within the lease area	07 dumps within the lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	02 active dumps	02 active dumps	
4f	Number of dead dumps.	05 dead dumps	05 dead dumps	
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			Mineral reject, waste dumping records were not maintained. Violation pointed out as per Rule.

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 proposal	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No area of the mine is excavated upto the ultimate pit limit to start backfilling.

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 yearly report before 1st July	Not submitted. Violation pointed out as per Rule.	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	2021-22 - 0.06 Ha 2022-23 - 0.06 Ha	Plantation done	
6d	No. of saplings planted during the year	2021-22 - 200 Nos. 2022-23 - 200 Nos.	Plantation carried out as per proposal.	
6e	Cumulative no .of plants	No proposal	Not maintained record.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	No proposal	Nil	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly Environmental monitoring in the core and buffer zone	Environmental monitoring carried out.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Vegetation found in and around the mining lease area.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1. Crude mica will be collected from ROM. 2. Quartz & Feldspar will be handpicked based on the physical characteristic s. 3. Vermiculite will be segregated manually.	1. Feldspar, Quartz & Mica separated manually and mechanically within the lease area. Size wise 2. Vermiculite sorted within the lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Quality wise sorted within the mining area	Quality wise sorted within the mining area	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Size wise and quality wise mineal sorted manually and mechnically within the lease area.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seperated removal of topsoil and utilisation proposed	Topsoil removal and utilisaiton recored not maintained.	
8b	Concurrent use or storage of topsoil	For plantation	Lessee has reported that topsoil used for plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperated dumps for overburden and waste proposed	Dumped overburden and waste seperately but not maintained records. Violaiton pointed out as per Rule.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2021-22 - 200 Nos. @ 0.06 Ha 2022-23 - 200 Nos.@ 0.06 Ha	Plantation carried out as per proposal but not maintained records.	
8g	Survival rate	No proposal	Nil	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed	Water sprinkling done for dust supression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Vegetation found in and around the mining lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly return Submitted before 10th of every month and Annual return to be submitted before 1st July.	Monthly returns and annual returns submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining engineer: Sri. D. Siva Kumar Geologist: Nil	Manager & Mining engineer: Sri. Muni Praveen Geologist: Sri. R. Puneeth Abhishek	Advised lessee to update the details in the Returns portal
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	i) OC Working - 0.19 Ha ii) UG Working - ii) Waste Dump Site -0.8 Ha iii) Infrastructure & Road -0.418 Ha Total Area - 1.48Ha	The lease area utilization submitted in the annual returns are not matching with the field conditions. Violation pointed out as per Rule.	
9d	Scrutiny of Annual return on afforestation	Nil	Violation pointed out as per Rule for not submitting the plantation details.	
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	OS & CS - Nil	Violation pointed out as per Rule for not maintaining the records.	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price - Rs.977/- Cost of Production - Rs.977/-	<p>1. Sale value is less than the cost per tonne.</p> <p>2. Exploration cost per tonne is submitted as Rs.239.02/-, whereas no exploration work carried out during the year 20221-22.</p> <p>3. In the cost of production details, royalty and dead rent paid are not consistent with the values reported in other parts of the annual returns.</p>	Violation pointed out as per Rule.
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets is submitted as Nil	Violation pointed out as per Rule.	
9k	Scrutiny of Annual return on mining machineries			

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 :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines