

## MCDR INSPECTION REPORT

File No. 659(129)/MC-93-NLR

Mine Code: 41APR15098

1	Name of the Inspecting Officer	Shaival Kartikeya
2	Designation	Senior Mining Geologist
3	Accompanying mine Official with Designation	Shri Aduru Sri Charan, Managing Partner
4	Date of inspection	24-April-2024
5	Previous inspection date	No record

### Part -I General Information

S. N.	Particulars	Details
1	Name of the Mine	Sri Kiran Vermiculite, Quartz Feldspar and Mica Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	25.516 Ha.
3	Minecode	41APR15098
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/11434/2012
5	Name of the lessee, Address, phone, email and fax number	M/s Narayana Mining Company Village Jogipally, Mandal Sydapuram, SPSR Nellore District, Andhra Pradesh State
6	Village	Jogipalli
7	Taluk/Mandal	Sydapuram
8	District	S.P.S.R. Nellore
9	Pincode	524407
10	State	Andhra Pradesh
11	Post office	Jogipalli
12	Nearest police station	Sydapuram
13	Nearest Railway station	Sydapuram
14	Date of Grant of Mining Lease	15/04/1994
15	Date of Execution	27/05/1994
16	Date of opening of Mine	27/05/1994
17	Date of first Renewal, if applicable and its period & expiry	N.A.
18	Date of second Renewal, if applicable and its period & expiry	N.A.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N.A.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Not appointed. Mining operations are closed from last five years due to no Environment Clearance.
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Not appointed. Mining operations are closed from last five years due to no Environment Clearance.
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Not appointed. Mining operations are closed from last five years due to no Environment Clearance.

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Not appointed. Mining operations are closed from last five years due to no Environment Clearance.
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Not appointed. Mining operations are closed from last five years due to no Environment Clearance.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	659(129)/MC-93-NLR dated 01/02/1994
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	No approved SoM
27	Mineral(s) granted in lease and proved for mining	Vermiculite, Quartz, Feldspar & Mica
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Category A Mechanised
30	Captive/ Non captive	Non captive

**Scientific Mining:** Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

## 1.0 Exploration

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
1a	Backlog of previous year	No proposal	8 DTH boreholes with cumulative depth of 200.00 meters have been drilled during F.Y. 2023-24.	The Mining operations are closed from last five years due to no Environment Clearance.
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	Under G2 Level: 11.649 Ha. Under G3 Level: 13.867 Ha.	Details have been obtained from the latest approved RMP dated 10/06/2024
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No proposal	M/s Narayana Mining Company	-do-

1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil.	-do-
1e	Balance reserves as on 01.04.2024	No proposal	<p>As on 01/04/2024:</p> <p><b>Vermiculite</b>  Under (122): 783562.50 Tonnes  Under (222): 151375.00 Tonnes  Under (333): 1937506.25 Tonnes</p> <p><b>Quartz</b>  Under (122): 1119250.00 Tonnes  Under (222): 216187.50 Tonnes  Under (333): 2767875.00 Tonnes</p> <p><b>Feldspar</b>  Under (122): 783562.50 Tonnes  Under (222): 151375.00 Tonnes  Under (333): 1937506.25 Tonnes</p> <p><b>Mica</b>  Under (122): 134317.50 Tonnes  Under (222): 25942.50 Tonnes  Under (333): 333645.00 Tonnes</p>	<p>Grades:</p> <p><b>Vermiculite:</b>  SiO<sub>2</sub>:65.27%,  Al<sub>2</sub>O<sub>3</sub>: 18.43%,  Fe<sub>2</sub>O<sub>3</sub>:0.11  K<sub>2</sub>O:12.83%,  Na<sub>2</sub>O:1.82%</p> <p><b>Quartz:</b>  SiO<sub>2</sub>: 99.25%,  Al<sub>2</sub>O<sub>3</sub>: 0.08%,  Fe<sub>2</sub>O<sub>3</sub>: 0.07%</p> <p><b>Feldspar:</b>  SiO<sub>2</sub>:65.27%,  Al<sub>2</sub>O<sub>3</sub>: 18.43%,  Fe<sub>2</sub>O<sub>3</sub>:0.11%,  K<sub>2</sub>O:12.83%,  Na<sub>2</sub>O:1.82%</p> <p><b>Mica:</b>  SiO<sub>2</sub>:45.85%,  Al<sub>2</sub>O<sub>3</sub>: 31.52%,  Fe<sub>2</sub>O<sub>3</sub>: 3.28%, K<sub>2</sub>O: 10.24%.  Na<sub>2</sub>O: 0.84%</p>
1f	General remarks of inspecting officer on geology, exploration etc.	The mining lease area is Mica, Quartz, Feldspar & Micaceous schist terrain. The mineralization of Mica, Vermiculite, Feldspar & Quartz is found in the form		

		<p>of two separate deposits in Micaceous Schist as county rock. Hence, the deposits have been marked as Pg-1. The mineralization of pegmatite (Mica, Quartz &amp; Feldspar) are striking almost North 10 degrees West – South 10 degrees East in direction &amp; dipping vertically. The mother rock Micaceous Schist are striking in the same direction as the mineralization of pegmatite. Therefore, the schist, pegmatite constitute main litho types of the complex. The major joint planes are parallel to the strike of the mineralization of pegmatite. The Mica &amp; Vermiculite in the pegmatite shows mica-cleavage. The intercalations of Mica, Quartz &amp; Feldspar in the pegmatite is a special character of the area, in which the percentage of recovery of constituents of pegmatite predominant role in evaluating the scope of the pegmatite (mineral) available in the area. The main ground geological succession of the area is as follows. Recent &amp; Sub-Recent : Alluvium, Gravels &amp; Soil Cover Pegmatite : Intrusive Body into Schist Upper Achaeans : Pegmatites, Quartz &amp; Feldspar Mineralization Middle Achaeans : Schist Metamorphic Rocks Lower Achaeans : Igneous Rock Formation The main formations in this belt are of Achaeon age. According to Sri B.C. Roy (GSI) the major rock types of the Nellore Schist belt have been stratigraphically grouped as below. Alluvium Cuddalore Sand Stone Rajmahal Plant Beds Granite – with associated veins of Pegmatite &amp; Vermiculite Period of Diastrophism: Pre-Cambrian-Kandra Volcanics, Schistose Series Kandra Volcanic : The Kandra Volcanics are basically metamorphosed igneous consisting of staurolite, amphibolites, chlorite, kyanite, garnet and also epidorites and dolerites tuffs. In the region, the Kandra Volcanics are devoid of pegmatite.</p>
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## 2.0 Development

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
2a	Location of development w.r.t. lease area	No proposal.	No production and development have been done in the mine, due to no EC.	The Mining operations are closed from last five years due to no Environment Clearance.
2b	Separate benches in topsoil, overburden and	No proposal.	Nil.	-do-

	mineral (Rule 15)			
2c	Stripping ratio or ore to OB ratio	No proposal.	Nil.	-do-
2d	Quantity of topsoil generation in m3	No proposal.	Nil.	-do-
2e	Quantity of overburden generation in m3	No proposal.	Nil.	-do-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Mine is non operational w.e.f. March 2018. The does not have the valid approved document after F.Y. 2018-19.		

### 3.0 Exploitation

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
3a	Number of pits proposed for production	No proposal.	Mine is non-operational w.e.f. March 2018.	The Mining operations are closed from last five years due to no Environment Clearance.
3b	Quantity of ROM mineral production proposed	No proposal.	Nil	-do-
3c	Recovery of salable/usable mineral from ROM production	No proposal.	Nil	-do-
3d	Quantity of mineral reject generation	No proposal.	Nil	-do-
3e	Grade of mineral reject generation and threshold value declared	No proposal.	Nil	-do-
3f	Quantity of sub-grade mineral generation	No proposal.	Nil	-do-
3g	Grade of sub-grade mineral generation	No proposal.	Nil	-do-
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal.	Nil	-do-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal.	Nil	-do-
3j	Provision of drilling & blasting in mineral benches	No proposal.	Nil.	-do-
3k	Provision of mining machineries in mineral	No proposal.	Nil.	-do-

	benches			
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No proposal.	Nil.	-do-
3m	Total area covered under excavation/pits	No proposal.	Pit: 4.353 Ha.	08 nos. of old working pit are present within lease area. Updated details has been obtained from the latest approved document dated 10/06/2024.
3n	Ore to OB ratio for the pit/mine during the year	No proposal.	Nil.	The Mining operations are closed from last five years due to no Environment Clearance.
3o	Total area put in use under different heads at the end of year	Pit- No proposal. Dumps- No proposal. Others- No proposal.	Pit- 4.353 Ha. Dumps- 1.96 Ha. Others- 8.25 Ha. As on 01/04/2024	-do-
3p	Production of ROM mineral during last five-year period, as applicable	Yr. 2019-20: No proposal. Yr. 2020-21: No proposal. Yr. 2021-22: No proposal. 2022-23: No proposal. 2023-24: No proposal.	Yr. 2019-20: Nil. Yr. 2020-21: Nil. Yr. 2021-22: Nil. Yr. 2022-23: Nil. Yr. 2023-24: Nil.	-do-
3q	General remarks of inspecting officer on method of mining etc.	Mine is non operational w.e.f. March 2018. The does not have the valid approved document after F.Y. 2018-19.		

#### 4.0 Solid Waste Management-Dumping

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No proposal.	03 nos. of waste dumps and 11 nos. of mineral stocks are present within lease area.	The Mining operations are closed from last five years due to no Environment Clearance.
4b	Location of topsoil, OB & mineral reject dumps	No proposal.	-do-	-do-
4c	Number of dumps within lease area and outside lease area	No proposal.	-do-	-do-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal.	All the dumps and stocks are present within UPL.	-do-
4e	Number of active & alive dumps	No proposal.	Mine is non-operational w.e.f. March 2018 due to no environment clearance.	-do-
4f	Number of dead dumps	No proposal.	Nil.	-do-
4g	Number of dumps stabilized	No proposal.	Nil.	-do-
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal.	Nil.	-do-
4i	Length of Retaining wall or garland drain all along dump	No proposal.	Nil.	-do-
4j	Number of settling ponds	No proposal.	Nil.	-do-
4k	Specific comments of inspecting officer on waste dump management.	Mine is non operational w.e.f. March 2018. The does not have the valid approved document after F.Y. 2018-19.		

## 5.0 Solid Waste Management-Backfilling

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal.	Nil.	The Mining operations are closed from last five years due to no

				Environment Clearance.
5b	Area under backfilling of mined out area	No proposal.	Nil.	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal.	Nil.	-do-
5d	Total area fully reclaimed & rehabilitated	No proposal.	Nil.	-do-
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mine is non operational w.e.f. March 2018. The does not have the valid approved document after F.Y. 2018-19.		

## 6.0 Progressive Mine Closure Plan

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	As per rule 26(2), lessee has to submit the annual report before 1st day of July of every year.	Not submitted. The mine is non-operational w.e.f. March 2018 due to no environment clearance.	The Mining operations are closed from last five years due to no Environment Clearance.
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	No proposal.	Nil.	-do-
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir	No proposal.	Nil.	-do-

	v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No proposal.	Nil.	-do-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	No proposal.	Nil.	-do-
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Mine is non operational w.e.f. March 2018. The does not have the valid approved document after F.Y. 2018-19.		

## 7.0 Mineral Conservation

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal.	Nil.	The Mining operations are closed from last five years due to no Environment Clearance.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal.	Nil.	-do-
7c	Different grade of mineral sorted out at mines	No proposal.	Nil.	-do-
7d	Any beneficiation process at mines	No proposal.	Nil.	-do-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mine is non operational w.e.f. March 2018. The does not have the valid approved document after F.Y. 2018-19.		

## 8.0 Environment

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	Nil.	The Mining operations are closed

				from last five years due to no Environment Clearance.
8b	Concurrent use or storage of topsoil	No proposal.	Nil.	-do-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal.	Nil.	-do-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Nil.	-do-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Nil.	-do-
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No proposal.	Nil.	-do-
8g	Survival rate	No proposal.	Nil.	-do-
8h	Water sprinkling on roads to control airborne dust	No proposal.	Nil.	-do-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Mine is non operational w.e.f. March 2018. The does not have the valid approved document after F.Y. 2018-19.		

## 9.0 Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to October 2024 A.R. submitted up to F.Y. 2023-24	Nil.

S.N.	Item	Details GIVEN in A.R. F.Y. 2023-24	Observation of I/Officer F.Y. 2023-24	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Not appointed.  Mining Engineer: Not appointed.	Manager: Not appointed.  Mining Engineer: Not appointed.	The mine is non-operational w.e.f. May 2018 due to no

		Geologist: Not appointed.	Geologist: Not appointed.	environment clearance.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- Nil. Dumps- Nil. Others- Nil.	Pit- 4.353 Ha. Dumps- 1.96 Ha. Others- 8.25 Ha.	-do-
9d	Scrutiny of Annual return on afforestation	Within lease area: Nil.  Outside lease area: Nil.	Within lease area: Nil.  Outside lease area: Nil.	-do-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject: Nil.  Grade: Nil.	Mineral Reject: Nil.  Grade: Nil.	-do-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Closing Stock: Nil.  Cement Grade Limestone Closing stock: Nil.	ROM Closing Stock: Nil.  Cement Grade Limestone Closing stock: Nil.	-do-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value: Nil.  Ex-mine Price: Nil.  Cost of Production: Nil.	Sale value: Nil.  Ex-mine Price: Nil.  Cost of Production: Nil.	-do-
9i	Scrutiny of Annual return on fixed assets	Nil.	Nil.	-do-
9k	Scrutiny of Annual return on mining machineries	Nil.	Nil.	-do-

**Details of violations observed during current inspection and compliance position of earlier violation pointed out:**

**(Name of inspecting officer with designation and date)**

**Shaival Kartikeya  
Senior Mining Geologist  
Date of inspection: 24/04/2024**