

GOVERNMENT OF ANDHRA PRADESH  
DEPARTMENT OF MINES AND GEOLOGY



From

**Sri.B.Jagannadha Rao, M.Sc.,**  
Deputy Director of Mines & Geology,  
Nellore.

To

M/s Sri Mines ,  
Mg.Pt. Sri G.Sri Ranga Reddy,  
16-10-131, Srihari Nagar,  
Opp: Green House Coffee Shop,  
Mini Bye Pass Road,  
Nellore – 524003.

**Letter No.291/MP/SS/NLR/2021,dated: 02.07.2022**

Sir,

Sub:- Mines & Minerals – Mining Plan for Quarry Lease applied area of M/s Sri Mines, Mg.Pt. Sri. G.Ranga Reddy with respect to Application filed for grant of quarry lease for Silica Sand over an extent of 32.480 Hectares(30.630 mining Lease area and 1.860Hect safety zone area) in Compartment-91 of Momidi RF, Momidi Village, Chillakur Mandal SPSR Nellore District - Approved – Regarding.

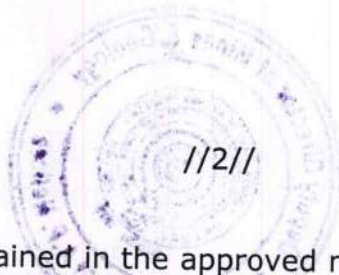
- Ref:-
1. Proceeding No.28594/P.RQP/01, dated 13.05.2016 of the Director of Mines and Geology, Ibrahimpatnam.
  2. Circular Memo No.3861432/P/2020, dated 16.07.2021 of the Director of Mines and Geology, Ibrahimpatnam.
  3. Draft Mining Plan submitted on 02.03.2021 submitted by M/s Sri Mines, Mg.Pt. Sri. G.Ranga Reddy.
  4. RC.No.1557/2017F11, dt:21.06.2022, from DFO, Nellore
  5. Inspection Report of this office Technical Staff.
  6. This office Letter No.291/DMP/2021, dt:30.06.2022.
  7. Letter dated 02.07.2022 along with 5 sets of fair Mining Plan from the Applicant / RQP.

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In exercise of the powers conferred by the Director of Mines and Geology, Ibrahimpatnam through the reference 1<sup>st</sup> cited and keeping in view of the instructions issued by the Director of Mines and Geology vide reference 2<sup>nd</sup> cited for processing of Mineral Concession applications falling in the forest area , I hereby approve the Mining Plan, in respect of Quarry Lease applied area of M/s Sri Mines, Mg.Pt. Sri. G.Ranga Reddy with respect to Application filed for grant of quarry lease for Silica Sand over an extent of 32.480 Hectares(30.630 mining Lease area and 1.860Hect safety zone area) in Compartment-91 of Momidi RF, Momidi Village, Chillakur Mandal SPSR Nellore District under Rule 12(5) (C) of Andhra Pradesh Minor Mineral Concession Rules, 1966 read with G.O.Ms.No.56, Industries & Commerce (Mines-II) Department, dated:30.04.2016. This approval is subject to the following conditions.

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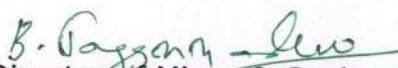




1. The proposals contained in the approved mining plan for the period of five years shall be applicable from the date of execution of the lease deed and for the mining activities to be carried out within the lease hold area as per the approved mining plan only.
2. This Mining Plan is approved without prejudice to any other laws applicable to the Quarry Lease area from time to time whether made by the Central Government, State Government or any other authority.
3. Approval of the Mining Plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Development and Regulation) Act, 1957 and amended act 2015 and the Mineral Concession Rules 1960 (Amended Rules 2016) and any other laws including the Forest Conservation Act, 1980.
4. The Mining Plan is approved subject to strictly adhering to the Relevant Regulations of MMR 1961 and obtaining prior permission from Director General Mines Safety whenever and where ever it is required.
5. The approval authority does not owe the responsibility with regard to Assessment of the reserves, erroneous certification made by the R.Q.P. if any and approval is tentative, subject to Modification on new findings at a later date as per the provisions of (23 B & 23 D) of MCDR, 1988, since the evaluation is done on random basis.
6. The applicant/ lessee shall safeguard the structures, public buildings, roads, railway line, electric line and water bodies exists if any as per regulations 109 & 127 of MMR, 1961.

Encl: Approved Mining Plan.

Yours faithfully,

  
Deputy Director of Mines & Geology  
Nellore.

2/2/2022

Copy submitted to the Director of Mines and Geology, Ibrahimpatnam along with A.M.P.

Copy submitted to the Member of Secretary, Andhra Pradesh Pollution Control Board, Vijayawada along with AMP for information.

Copy to Sri P.Viswam, (RQP/BNG/346/2015/A), Anoosri Mining Solutions, Near Sivalayam Temple, Sydapuram (V) (PO) & (M), SPSR Nellore District - 524407 for information.

Copy submitted to the Regional Controller of Mines, IBM, Sultan Bazar, Hyderabad along with A.M.P.

Copy submitted to the Director of Mines Safety, Gruhakalpa (Block-2), Nampally, Hyderabad for favour of information.

Copy to the Asst. Director of Mines and Geology, Nellore along with A.M.P.

**MINING PLAN**  
**INCLUDING PROGRESSIVE MINE CLOSURE PLAN**  
**FOR SILICA SAND**  
**OVER AN EXTENT OF 80.32 AC /32.48 HA**  
**INCLUDING MINING AREA 75.71 AC (30.62 HA)**  
**AND SAFETY ZONE AREA 4.61 AC (1.86 HA)**  
**IN COMPARTMENT NO.9 OF MOMIDI RF,**  
**CHILLAKUR MANDAL, SPSR NELLORE DT, A.P.**

This Mining Plan is prepared as per guidelines in FORM – T ,  
Under Amended Rule 12 (5) (C) of APMMC Rule '1966.

"B-CATEGORY" SEMI MECHANIZED (OTHER THAN FULLY MECHANIZED (OTFM))  
OPEN CAST MINE WITHOUT DRILLING AND BLASTING

FOREST LAND

**APPLICANT**

**M/S SRI MINES,**  
**Mg.Partner: Sri G. Sri Ranga Reddy,**  
16-10-131,  
Srihari Nagar,  
Opp: Green House Coffee Shop,  
Mini Bye Pass Road,  
Nellore – 524 003.

**PREPARED BY**

**ANOOSRI MINING SOLUTIONS**  
**P.VISWAM,**  
(RQP/BNG/346/2015/A)  
Near Sivalayam,  
Sydapuram (V), (PO) & (M)-524407  
SPSR Nellore Dist. A.P





**DECLARATION**

This is to certify that the **Mining Plan** for **Silica Sand** over a total extent of 80.32 Ac /32.48 Ha including Mining Area of 75.71 Ac (30.62 Ha) and Safety Zone Area of 4.61 Ac (1.86 Ha) in Compartment No. 91 of Momidi RF, Chillakur Mandal, SPSR Nellore District, Andhra Pradesh in favour of **M/s Sri Mines, Mg.Part: Sri G. Sri Ranga Reddy** has been prepared in full consultation with me. I have understood its contents and agreed to implement the same in accordance with all the Statutory Provisions of the Rules.

Place:

Date:

**For SRI MINES***G. Sri Ranga Reddy***Mg. Partner**

Signature of the Applicant





**CERTIFICATE**

This is to certify that, The provisions of Mines Act, Rules and Regulations made there under have been observed in this **Mining Plan** for **Silica Sand** over a total extent of 80.32 Ac /32.48 Ha including Mining Area of 75.71 Ac (30.62 Ha) and Safety Zone Area of 4.61 Ac (1.86 Ha) in Compartment No. 91 of Momidi RF, Chillakur Mandal, SPSR Nellore District, Andhra Pradesh in favour of **M/s Sri Mines, Mg.Part: Sri G. Sri Ranga Reddy** and wherever specific permission required the applicant will approach the Director General of Mines Safety.

The information furnished in the above Mining Plan is true and correct to the best of our knowledge.

**For SRI MINES**

G. Sridharan Reddy

Mg. Partner  
Signature of the applicant



**P. Viswam,**

(RQP/BNG/346/2015/A)



Place : Sydapuram

Date :

**CERTIFICATE**

This is to certify that the **Mining Plan** has been prepared as per the Andhra Pradesh Minor Mineral Concession Rules, 1966. Whenever specific permission is required for any deviation, the applicant will approach the Authorities of the Department of Mines & Geology.

The provisions of Mines Act, Rules and Regulations made there under have been observed in preparation of this **Mining Plan** for **Silica Sand** over a total extent of 80.32 Ac /32.48 Ha including Mining Area of 75.71 Ac (30.62 Ha) and Safety Zone Area of 4.61 Ac (1.86 Ha) in Compartment No. 91 of Momidi RF, Chillakur Mandal, SPSR Nellore District, Andhra Pradesh in favour of **M/s Sri Mines, Mg.Part: Sri G. Sri Ranga Reddy** has been agreed to implement the Mining Plan in full and whenever specific permission is required, the applicant will approach the Director General of Mines Safety. The information furnished in the Mining Plan is true and correct to the best of my knowledge.



Place: Sydapuram

Date:

**P. Viswam,**

(RQP/BNG/346/2015/A)



## CONTENTS

| S.NO.       | CONTENTS   | PAGE NO. |
|-------------|--|----------|
|             | INTRODUCTION   | 1        |
| <b>I</b>    | GENERAL  | 6        |
| <b>II</b>   | LOCATION & ACCESSIBILITY   | 7        |
| <b>III</b>  | DETAILS OF APPROVED MINING PLAN  | 8        |
|             | <b>PART – A</b>  |          |
| <b>1.0</b>  | GENERAL DETAILS OF THE MINING LEASE AREA                                     | 9        |
| <b>2.0</b>  | GEOLOGY AND EXPLORATION  | 10       |
| <b>3.0</b>  | MINING   | 22       |
| <b>4.0</b>  | MINE DRAINAGE  | 27       |
| <b>5.0</b>  | STACKING OF MINERAL REJECT /SUB GRADE MATERIAL AND DISPOSAL OF WASTE         | 27       |
| <b>6.0</b>  | USE OF MINERAL AND MINERAL REJECT  | 27       |
| <b>7.0</b>  | PROCESSING OF ROM MINERAL AND MINERAL REJECT                                 | 28       |
| <b>8.0</b>  | OTHERS   | 28       |
|             | <b>PART – B</b>  |          |
|             | <b>PROGRESSIVE MINE CLOSURE PLAN</b>   |          |
| <b>1.0</b>  | ENVIRONMENT BASE LINE INFORMATION  | 29       |
| <b>2.0</b>  | ENVIRONMENT IMPACT ASSESSMENT  | 30       |
| <b>3.0</b>  | PROGRESSIVE RECLAMATION PLAN   | 32       |
| <b>4.0</b>  | MINED OUT LAND   | 32       |
| <b>5.0</b>  | TOP SOIL MANAGEMENT  | 33       |
| <b>6.0</b>  | TAILING DAM MANAGEMENT   | 33       |
| <b>7.0</b>  | DISASTER MANAGEMENT AND RISK ASSESSMENT                                      | 33       |
| <b>8.0</b>  | CARE AND MAINTENANCE DURING TEMPORARY DISCONTINUANCE                         | 34       |
| <b>9.0</b>  | FINANCIAL ASSURANCE  | 34       |
| <b>10.0</b> | BREAK UP OF AREAS IN THE MINING LEASE FOR CALCULATION OF FINANCIAL ASSURANCE | 35       |
|             | PLANS AND SECTIONS   | 36       |
|             | CERTIFICATE  | 37       |

### **LIST OF ANNEXURES**

| <b>S. NO</b> | <b>NAME</b>                               | <b>ANNEXURE NO.</b> |
|--------------|---|---------------------|
| <b>1</b>     | COPY OF RQP CERTIFICATE                   | <b>I</b>            |
| <b>2</b>     | COPY OF LETTER FROM THE FOREST DEPARTMENT | <b>II</b>           |
| <b>3</b>     | COPY OF CIRCULAR MEMO                     | <b>III</b>          |
| <b>4</b>     | COPY OF PARTNERSHIP DEED                  | <b>IV</b>           |

### **LIST OF PLATES**

| <b>PLATE. NO</b> | <b>NAME OF PLATE</b>                     | <b>SCALE</b>   |
|------------------|--|----------------|
| <b>1</b>         | KEY CUM LOCATION PLAN (TOPO SHEET)       | <b>1:50000</b> |
| <b>2</b>         | MINING LEASE SKETCH                      | <b>1:3500</b>  |
| <b>3</b>         | SURFACE PLAN CUM SURFACE GEOLOGICAL PLAN | <b>1:2000</b>  |
| <b>3A</b>        | GEOLOGICAL CROSS SECTIONS                | <b>1:1000</b>  |
| <b>4</b>         | MINE LAYOUT PLAN                         | <b>1:2000</b>  |
| <b>4A</b>        | MINE LAYOUT SECTIONS                     | <b>1:1000</b>  |
| <b>5</b>         | ENVIRONMENTAL PLAN                       | <b>1:5000</b>  |
| <b>6</b>         | FINANCIAL ASSURANCE                      | <b>1:2000</b>  |



This Mining Plan is Approved Subject to the conditions stipulations indicated in the Mining plan Approval Letter  
 No. 291/NLP/SS/NLR/2022  
 Date 07/2022

**MINING PLAN**  
**INCLUDING PROGRESSIVE MINE CLOSURE PLAN**  
**FOR SILICA SAND**  
**OVER A TOTAL EXTENT OF 80.32 AC /32.48 HA**  
**INCLUDING MINING AREA 75.71 AC (30.62 HA)**  
**AND SAFETY ZONE AREA 4.61 AC (1.86 HA)**  
**IN COMPARTMENT NO. 91 OF MOMIDI RF,**  
**CHILLAKUR MANDAL, SPSR NELLORE DT, A.P.**

This Mining Plan is prepared as per guidelines in FORM – T,  
 Under Amended Rule 12 (5) (C) of APMMC Rule '1966.

"B-CATEGORY" SEMI MECHANIZED (OTHER THAN FULLY MECHANIZED (OTFM))  
 OPEN CAST MINE WITHOUT DRILLING AND BLASTING

## INTRODUCTION

**M/s Sri Mines, Mg.Part: Sri G. Sri Ranga Reddy** has filed an application for grant of Quarry Lease for Silica Sand over a total applied extent of 80.32 Ac /32.48 Ha Including Mining Area 75.71 Ac (30.62 Ha) and Safety Zone Area 4.61 Ac (1.86 Ha) in Compartment No.91, Momidi RF, Chillakur Mandal, SPSR Nellore District, Andhra Pradesh, The said quarry lease application was received by the Asst. Director of Mines & Geology; Nellore.

The proposal up loaded in the Ministry's web portal vide online proposal No.FP/AP/QR/46915/2020, dated 06.07.2020 for diversion of 32.48 Ha of Forest land in compartment no.91, Momidi RF, Chillakur Mandal, SPSR Nellore District, Andhra Pradesh for grant of quarry lease for Silica sand in favour of **M/s Sri Mines, Mg.Part: Sri G. Sri Ranga Reddy**. The Pri. Chief conservator of Forests & Head of Forest, Andhra Pradesh, Nagarampalem, Guntur is requested to submit approved Mining plan for taking further action in the matter, vide Ref.No.EFS02-15029/15/2019-FCA SEC-PCCF/FCA-2, dated 31.01.2021. Copy enclosed as Annexure – II.

Through the **Circular Memo No: 3861432/P/2020 dated 16/07/2021**, issued by Government of Andhra Pradesh Department of Mines and Geology Ibrahimpatnam, instructions has already been issued to all the ADM&Gs and DDM&Gs to submit the proposals on applications with regard to Forest area along with AMP as per the procedure intimated by the Pri.Chief Conservator of Forests, Guntur. Copy enclosed as Annexure - III.

Approved

**B. JAGANNADHA RAO**

(Approving Authority of Nellore District)  
 Deputy Director of Mines & Geology  
 SPSR Nellore District



A detailed Mining Plan is submitted on the basis of the Circular Memo No:3861432/P/2020 dated 16/07/2021, issued by Government of Andhra Pradesh Department of Mines and Geology Ibrahimpattanam, Sub: Mines & Minerals – Granting of Mining Lease/Prospecting License/Quarry Leases in Forest lands.

The approved mining plan shall also reflect the restrictions to be adopted by the applicant while conducting quarry operations due to existence of any structures, railway line, roads, water bodies such as river, lake etc., and the stipulated distances as per the various regulations prescribed under M.M.R. 1961.

**M/s Sri Mines, Mg.Part: Sri G. Sri Ranga Reddy** has approached Anosri Mining Solutions, Sydapuram (Sri P.Viswam, Mining Engineer & RQP, and copy of certificate was enclosed as Annexure-I) for preparation of mining Plan for the above applied area.

Accordingly this Mining Plan is prepared as per the guidelines of FORM – T, under G.O.Ms.56, I&C(Mines-II), DT: 30/04/2016 of AP for obtaining the Environmental Clearance (EC) from State Environmental Impact Assessment authority (SEIAA) & annual production Plan under semi mechanized (Other Than Fully Mechanised (OTFM)) Open cast method of mining without drilling and blasting Under Rule 12 (5) (C) of APMMC Rule '1966.

Now the proposals are made for 5 years plan period and submitted to the Deputy Director of Mines & Geology, Nellore for approval.





**The Asst. Director, Mines & Geology, Nellore, Vide Notice No 2634/NGT/2015 dated 02-07-2015, issued guidelines to be followed by the Mining Lease holders in Kota & Chillakur Mandals of Nellore District to be conducted as per the SEAC Sub-Committee on NELLORE DISTRICT SILICA MINES. Report the list of Recommendation of SEAC Sub-Committee on Nellore silica mines.**

1. Mining is permitted only to a level of >1 M above water table.
2. To establish the level of water table in lease for monitoring reference, sufficient number of trial pits of suitable size has to be formed by applicant at a minimum spacing of 50 m interval both along the gradient of water and perpendicular to it. The water table in these trial pits is considered as initial water table depth and mining should be permitted a level of 1m above the identified level.
3. In the areas with "Sona Kaluvas" (Spring Channels) no mining should be permitted within 50 m distance from any point of either side of channels and even existing mine applied areas also need to submit a closure plan of such areas, if they have already been excavated.
4. Conditions for safe transportation of mined out sand for avoiding fugitive emissions and similar conditions for laying approach roads and haul roads to ensure mineral conservation, should be invariably and specifically be made as general conditions.
5. Permanent Monitoring stations at strategic locations be established by all mine applicants of a village and ensure that the silica content is less than  $3\mu\text{g} / \text{M}^3$  and similarly, well inventory of dug wells be maintained for every village.
6. Certain guidelines for mining are also proposed as here under
  - The Mining operations in the subject are categorized as The Mines those are operating and stopped presently
  - If a Sona Channel is found within 50 m from the applied boundary in any direction and extent, the lease shall not be granted and accordingly the lease granting authority has to be intimated.
  - If the Mining operations that were done are observed to be within 50 m of any "Spring Channel" the side should not be cleared for Environmental Clearance unless the lease document is corrected accordingly by correcting mineable boundaries.
  - For appraising any case for environmental clearance, the survey drawing of the site with contours of 1 m interval shall be provided and proponent should be asked to provide the same by getting endorsed with DMG surveyor. The Contour survey shall be conducted with spot level density of at least 1 point for every 2 Sq.M.
  - The area map showing the leases will be helpful in deciding other nearby leases to decide the cluster condition. In the case of cluster conditions they should be dealt accordingly.
  - The depth of excavation in permissible mining area shall in no case exceed 2.5 m from stay level in "Minus-Z direction".
  - If a Mining Plan/Scheme that is having conditions against the above recommendations, the Mining Plan shall be suitably modified and re-submitted and get approved by the applicant.



**Compliance to the Guide lines issued by The Asst. Director, Mines & Geology, Nellore, Vide Notice No 2634 / NGT / 2015 dated 02-07-2015 for taking up the Mining operations**

| S.No. | Guidelines   | Compliance   |
|-------|--|--|
| 1     | <i>To establish the level of water table in lease for monitoring reference, a "Doruvu" of 2x2m size has to be executed by applicant @ of 2 its / along the slope gradient and at least 30 m interval. The water table in these Doruvus be considered as initial water table depth and mining should be permitted a level of 1m above the identified level.</i> | As the applied area is a forest land, the water table in the applied area was taken 3.5mts from the surface ground level based on the nearby working quarries. The proposed mining will be taken up to 2.5 mts from the surface by leaving safety buffer area and 50mts buffer from the canal. |
| 2     | <i>In the areas with "Sona Kaluvas" (Spring Channels) no mining should be permitted in the 50 m wide area on either side of channels and even existing mine applied areas also need to submit a closure plan of such areas, if they have already been excavated.</i>   | Two spring canals are passing outside (East and West sides) of the applied area.   |
| 3     | <i>Conditions for safe transportation of mined out sand for avoiding fugitive emissions and similar conditions for laying approach roads and haul roads to ensure mineral conservation, should be invariably and specifically be made as general conditions.</i>   | The mining plan/scheme is prepared by incorporating the methods for safe transportation and control of fugitive dust emissions.  |
| 4     | <i>Permanent Monitoring stations at strategic locations be established by all mine applicants of a village and ensure that the silica content is less than 30 ppm and similarly, well inventory of dug wells be maintained for every village.</i>  | Will be Complied after initiating the Mining Operations.   |
| 5     | <i>For appraising any case for environmental clearance, the Survey drawing of the site with contours of 1 m interval shall be provided and proponent should be asked to provide the same by getting endorsed with DMG surveyor. The Contour survey shall be conducted with spot level density of at least 1 point for every 2 Sq.M.</i>                        | Detailed Topographical survey was carried out by taking spot levels at every 2 M <sup>2</sup> in the entire area. However since the entire area is flat in nature, the number of contour lines surfaced in the drawing are very limited.   |
| 6     | <i>The area map showing the leases will be helpful in deciding other adjacent leases to decide the cluster condition. In the case of cluster conditions they should be dealt accordingly.</i>  | The Demarcated Sketch is enclosed.   |



|   |   |  |
|---|---|--|
| 7 | <i>The depth of excavation in permissible mining area shall in no case exceed 2.5m from stay level in "Minus-Z direction".</i>  | The depth of excavation will be restricted up to 2.5 m from surface by scooping the sand in retreading direction of mine face developed; precautions are mentioned in the proposed method of mining. |
| 8 | <i>If a mining Plan that is having conditions against the above recommendations, the Mining Plan shall be suitably modified and re-submitted and get approved by the applicant.</i> | <b>Mining plan</b> for applied area.   |



**I. GENERAL:**

**1.0 Name and address of the Applicant**

**: M/s SRI MINES,**  
Mg.Partner: Sri G. Sri Ranga Reddy,  
16-10-131,  
Srihari Nagar,  
Opp: Green House Coffee Shop,  
Mini Bye Pass Road,  
Nellore – 524 003.

**2.0 Status of the Applicant**

: Private Partnership firm  
Partnership deed copy is enclosed as  
Annexure – IV.

**3.0 Mineral or Minerals which the applicant intends to mine**

: Silica Sand

**Lease period**

: 20 Years

**4.0 Name and Address and  
Regd. No. of The recognized  
person who prepared the  
Mining plan**

: P.VISWAM, RQP.  
Address:

**Anoosri Mining Solutions,**  
Near Sivalayam,  
Sydapuram (V), (PO) & (M)-524407  
Srihari Nellore Dist. A.P.

Mobile No. : 98661 01801

E-mail ID : [anoosrims@gmail.com](mailto:anoosrims@gmail.com)

Registration No.:RQP/BNG/346/2015/A

Date of Grant/ renewal:30.03.2015 (Grant)

Valid upto :29.03.2025

Certificate of RQP, enclosed as Annexure- I.





**II. LOCATION AND ACCESSIBILITY****1.0 APPLIED AREA / LEASE AREA DETAILS:**

| 1  | Village   | Momidi RF  |                              |             |             |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
|--|---|--|------------------------------|-------------|-------------|------------------------------|--|--|-----|----------|-----------|-----|----------|-----------|----|-------------|-------------|----|-------------|-------------|-----|-------------|-------------|-----|-------------|-------------|----|-------------|-------------|----|-------------|-------------|----|-------------|-------------|----|-------------|-------------|----|-------------|-------------|----|-------------|-------------|----|-------------|-------------|----|-------------|-------------|----|-------------|-------------|----|-------------|-------------|----|-------------|-------------|----|-------------|-------------|----|-------------|-------------|----|-------------|-------------|----|-------------|-------------|----|-------------|-------------|-----|-------------|-------------|-----|-------------|-------------|------|-------------|-------------|------|-------------|-------------|------|-------------|-------------|------|-------------|-------------|------|-------------|-------------|------|-------------|-------------|-----|-------------|-------------|-----|-------------|-------------|-----|-------------|-------------|-----|-------------|-------------|-----|-------------|-------------|-----|-------------|-------------|-----|-------------|-------------|-----|-------------|-------------|
| 2  | Mandal  | Chillakur  |                              |             |             |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| 3  | District  | SPSR Nellore   |                              |             |             |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| 4  | State   | A.P  |                              |             |             |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| 5  | Survey No   | Compartment No.91  |                              |             |             |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| 6  | Extent  | Total Extent : 80.32 Ac /32.48 Ha<br>including Mining Area 75.71 Ac (30.62 Ha)<br>and Safety Zone Area 4.61 Ac (1.86 Ha) |                              |             |             |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| 7  | Ownership of<br>Occupancy   | Forest Land  |                              |             |             |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| 8  | <b>Geo Co-ordinates</b><br><br>The mining applied area falls under the survey of India Topo sheet No. 66 B/4 at the extremities of North Latitude 14.15375617 to 14.14758716 and East Longitude 80.06436806 to 80.05710694. The lease boundary co-ordinates are shown in below. |  |                              |             |             |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| <table><tr><th colspan="3">Mining area Coordinates</th><th colspan="3">Safety Zone area Coordinates</th></tr><tr><th>B.P</th><th>Latitude</th><th>Longitude</th><th>B.P</th><th>Latitude</th><th>Longitude</th></tr><tr><td>m1</td><td>14.14855555</td><td>80.06436806</td><td>b1</td><td>14.14860233</td><td>80.06429699</td></tr><tr><td>m1a</td><td>14.14808783</td><td>80.06155478</td><td>b1a</td><td>14.14817019</td><td>80.06254480</td></tr><tr><td>m2</td><td>14.14758716</td><td>80.06039208</td><td>b2</td><td>14.14766884</td><td>80.06042517</td></tr><tr><td>m3</td><td>14.14842778</td><td>80.05955401</td><td>b3</td><td>14.14844878</td><td>80.06001947</td></tr><tr><td>m4</td><td>14.15083728</td><td>80.05950546</td><td>b4</td><td>14.15088610</td><td>80.05954521</td></tr><tr><td>m5</td><td>14.15078636</td><td>80.05909933</td><td>b5</td><td>14.15084317</td><td>80.05906817</td></tr><tr><td>m6</td><td>14.14965448</td><td>80.05842308</td><td>b6</td><td>14.14976356</td><td>80.05846744</td></tr><tr><td>m7</td><td>14.15000336</td><td>80.05808352</td><td>b7</td><td>14.15003088</td><td>80.05815849</td></tr><tr><td>m8</td><td>14.15046278</td><td>80.05827751</td><td>b8</td><td>14.15048798</td><td>80.05834813</td></tr><tr><td>m9</td><td>14.15135101</td><td>80.05767857</td><td>b9</td><td>14.15138702</td><td>80.05773992</td></tr><tr><td>m10</td><td>14.15194501</td><td>80.05750895</td><td>b10</td><td>14.15196659</td><td>80.05757202</td></tr><tr><td>m11a</td><td>14.15257639</td><td>80.05710694</td><td>b11a</td><td>14.15253052</td><td>80.05719090</td></tr><tr><td>m11b</td><td>14.15290631</td><td>80.05890516</td><td>b11b</td><td>14.15284108</td><td>80.05892156</td></tr><tr><td>m11c</td><td>14.15334566</td><td>80.06112041</td><td>b11c</td><td>14.15327558</td><td>80.06113738</td></tr><tr><td>m12</td><td>14.15375617</td><td>80.06328968</td><td>b12</td><td>14.15368522</td><td>80.06324169</td></tr><tr><td>m13</td><td>14.15225311</td><td>80.06353941</td><td>b13</td><td>14.15224651</td><td>80.06347777</td></tr><tr><td>m14</td><td>14.15067411</td><td>80.06374171</td><td>b14</td><td>14.15064805</td><td>80.06368478</td></tr><tr><td>m15</td><td>14.14984765</td><td>80.06417059</td><td>b15</td><td>14.14982675</td><td>80.06411141</td></tr></table> |   |  | Mining area Coordinates      |             |             | Safety Zone area Coordinates |  |  | B.P | Latitude | Longitude | B.P | Latitude | Longitude | m1 | 14.14855555 | 80.06436806 | b1 | 14.14860233 | 80.06429699 | m1a | 14.14808783 | 80.06155478 | b1a | 14.14817019 | 80.06254480 | m2 | 14.14758716 | 80.06039208 | b2 | 14.14766884 | 80.06042517 | m3 | 14.14842778 | 80.05955401 | b3 | 14.14844878 | 80.06001947 | m4 | 14.15083728 | 80.05950546 | b4 | 14.15088610 | 80.05954521 | m5 | 14.15078636 | 80.05909933 | b5 | 14.15084317 | 80.05906817 | m6 | 14.14965448 | 80.05842308 | b6 | 14.14976356 | 80.05846744 | m7 | 14.15000336 | 80.05808352 | b7 | 14.15003088 | 80.05815849 | m8 | 14.15046278 | 80.05827751 | b8 | 14.15048798 | 80.05834813 | m9 | 14.15135101 | 80.05767857 | b9 | 14.15138702 | 80.05773992 | m10 | 14.15194501 | 80.05750895 | b10 | 14.15196659 | 80.05757202 | m11a | 14.15257639 | 80.05710694 | b11a | 14.15253052 | 80.05719090 | m11b | 14.15290631 | 80.05890516 | b11b | 14.15284108 | 80.05892156 | m11c | 14.15334566 | 80.06112041 | b11c | 14.15327558 | 80.06113738 | m12 | 14.15375617 | 80.06328968 | b12 | 14.15368522 | 80.06324169 | m13 | 14.15225311 | 80.06353941 | b13 | 14.15224651 | 80.06347777 | m14 | 14.15067411 | 80.06374171 | b14 | 14.15064805 | 80.06368478 | m15 | 14.14984765 | 80.06417059 | b15 | 14.14982675 | 80.06411141 |
| Mining area Coordinates  |   |  | Safety Zone area Coordinates |             |             |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| B.P  | Latitude  | Longitude  | B.P                          | Latitude    | Longitude   |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m1   | 14.14855555   | 80.06436806  | b1                           | 14.14860233 | 80.06429699 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m1a  | 14.14808783   | 80.06155478  | b1a                          | 14.14817019 | 80.06254480 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m2   | 14.14758716   | 80.06039208  | b2                           | 14.14766884 | 80.06042517 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m3   | 14.14842778   | 80.05955401  | b3                           | 14.14844878 | 80.06001947 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m4   | 14.15083728   | 80.05950546  | b4                           | 14.15088610 | 80.05954521 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m5   | 14.15078636   | 80.05909933  | b5                           | 14.15084317 | 80.05906817 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m6   | 14.14965448   | 80.05842308  | b6                           | 14.14976356 | 80.05846744 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m7   | 14.15000336   | 80.05808352  | b7                           | 14.15003088 | 80.05815849 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m8   | 14.15046278   | 80.05827751  | b8                           | 14.15048798 | 80.05834813 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m9   | 14.15135101   | 80.05767857  | b9                           | 14.15138702 | 80.05773992 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m10  | 14.15194501   | 80.05750895  | b10                          | 14.15196659 | 80.05757202 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m11a   | 14.15257639   | 80.05710694  | b11a                         | 14.15253052 | 80.05719090 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m11b   | 14.15290631   | 80.05890516  | b11b                         | 14.15284108 | 80.05892156 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m11c   | 14.15334566   | 80.06112041  | b11c                         | 14.15327558 | 80.06113738 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m12  | 14.15375617   | 80.06328968  | b12                          | 14.15368522 | 80.06324169 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m13  | 14.15225311   | 80.06353941  | b13                          | 14.15224651 | 80.06347777 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m14  | 14.15067411   | 80.06374171  | b14                          | 14.15064805 | 80.06368478 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |
| m15  | 14.14984765   | 80.06417059  | b15                          | 14.14982675 | 80.06411141 |                              |  |  |     |          |           |     |          |           |    |             |             |    |             |             |     |             |             |     |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |    |             |             |     |             |             |     |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |      |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |     |             |             |



|    |   |  |
|----|---|--|
| 9  | <b>Location of the area and approach</b>    | The mining applied area falls in Compartment No.91 of Momidi RF, Chillakur Mandal, Nellore District, and A.P. The mining applied area is approachable by road from Nellore via. Gudur, Chinthavaram and Ballavolu to Karlapudi. It is situated at East side of Ponnayolu - Karlapudi road. It is situated at a distance of 1.00 Km due South East side of Addepalli Village. The location of the area is indicated in Key - Cum - Location Map (Plate -I). |
| 10 | <b>Infrastructure &amp; Communications:</b> |  |
|    | Availability of Water                       | The ground water is available 3-4 m BGL. The agricultural fields around the mining applied area are irrigated by ground water.   |
|    | Availability of Electricity                 | The applicant will take necessary permissions and connections from the electricity department for source of power supply to operate electrical equipment like compressors, pumps etc.<br><br>Electricity is available in all the villages and in the agricultural lands for bore wells.  |
|    | Communication Network                       | Tele Communications are available at the Addepalli Village.  |
|    | Road Network                                | State Transport Bus Services ply from Nellore & Gudur, frequently, Private Transport is also available on this road network.   |
|    | Nearest Rail Head                           | Gudur Railway Station is 30 Km from the Site.  |
|    | Port Facility                               | Krishnapatnam Port is about 20 Km from the Site.   |
|    | School                                      | Primary School Education is available Momidi Village. Higher Education is available at Chillakur & Gudur Town.   |
|    | Medical Facility                            | Registered Medical Practitioner is available at Momidi Village. Gudur & Nellore Town is well placed for Doctors, Nursing Homes & Hospitals.  |
| 11 | <b>Boundaries:</b>                          |  |
|    | North                                       | Forest Land  |
|    | South                                       | Forest Land  |
|    | East  | Forest Land  |
|    | West  | Govt. Land   |

**2.0 General Location** :Location Map enclosed as Plate No: 1

### **III. DETAILS OF APPROVED MINING PLAN/SCHEME , IF ANY**

Not applicable



**PART – A****1.0 GENERAL DETAILS OF THE MINING LEASE**

|                      |   |
|----------------------|---|
| <b>1. Topography</b> | <p>The mining applied area falls under the survey of India Topo sheet No. 66 B/4 at the extremities of North Latitude The mining applied area falls under the survey of India Topo sheet No. 66 B/4 at the intersection of North Latitude 14.15375617 to 14.14758716 and East Longitude 80.06436806 to 80.05710694. The Key plan prepared using Topo sheet on 1: 50000 scale. The key plan cum location map is enclosed as Plate No-1.</p> <p>(a) The mining applied area is a fresh area and plain area.<br/> (b) There is no Top soil in the applied area.<br/> (c) The applied area is an undulated sand bearing terrain with very less number of bushes and shrubs. The height of the dunes existing in the area varies from 1.0 m from the ground level.<br/> (d) The topography of the area is uniform except the low depth dunes as seen in Topography of the applied area is shown on Surface Plan which is enclosed as Plate No. 3. Mapping on 1: 1000 Scale.<br/> (e) The Topographic has been prepared with 1.0 m contour interval its highest contour is 6 m RL and lowest contour is 5 m RL.<br/> (f) The general trend of the drainage pattern is towards SE direction and the general drainage pattern is dendritic to sub-dendritic in nature.</p> <p>The Bench mark is fixed at the South West side in the applied area and it is marked as Bench Mark (5.043 m MSL) with reference this Bench mark and surveyed this area, with reference this bench mark all the plans and sections has been prepared.</p> |
| <b>2 Drainage</b>    | The rain water is mostly absorbed by sand and excess water will flow towards South East direction.  |
| <b>3 Vegetation</b>  | The applied area falls in forest area. The entire area except existing pits, mineral dumps and internal roads covered with bushes and open scrub.   |
| <b>4 Climate</b>     | The maximum temperature is about 40°C during summer and 21°C during winter. The monsoon period is from September to December.   |
| <b>5 Rainfall</b>    | The annual normal rainfall of the district is 800mm. The peculiarity of this district is that contribution of SW monsoon is far less than the contribution of NE monsoon rainfall. About 70% of the annual rainfall is contributed by the east about 500 to 600 mm in the district.   |



## 1.0 GEOLOGY AND EXPLORATION

### (a) **Brief description of Regional Geology with reference to location of lease/ applied area.**

#### **Regional Geology**

The regional geology of the area is comprised of Nellore schist belt overlaid by sand formed due to vigorous cyclone effect and by back water of Bay of Bengal years and years ago. The sand is widely exposed in surface; rather than area is fully covered by sand everywhere. The schist, sand and sandy soil incorporates the general geology of the mining applied area. The main geological sequence is as follows.

|                     |                                    |
|---------------------|------------------------------------|
| Recent              | Silica sand and clay,              |
| Nellore schist belt | Allumina and silica rich products. |
| Dharwars            | Schist's, Phyllite etc.,           |
| Archaeons           | Igneous rocks                      |

#### **Local Geology:**

Local geology and Lithology of the area is as follows:

|                         |   |
|-------------------------|---|
| Silica sand             | Silica sand 4 to 5 m thick,                                     |
| Fine grade sandy soil   | Sand with sedimentation of clayey material.                     |
| Schists and other rocks | Below 6m (not confirmed in any of the existing operating mines) |

The area is fully sandy in appearance throughout. Therefore the geological sequences are referred in general way (Refer plate No. 1).

### (b) **Detailed description of Geology of applied area**

The area is fully covered with silica sand. No other outcrops of any rock type are present in the area. The silica sand must have resulted from the back water Bay of Bengal. A little quantity silt and ferruginous material associated with silica sand. This was transported by waves and deposited near the shore line. The sand size available at mine site is in between 20 meshes to 100 meshes. It will be separated and will be stocked in sheds. The average grade of the silica sand is 97.55% of  $\text{SiO}_2$  up to 100 meshes.

### (c) **Details of prospecting license holder**

M/s Sri Mines,  
 Mg.Partner: Sri G. Sri Ranga Reddy,  
 16-10-131,  
 Srihari Nagar,  
 Opp: Green House Coffee Shop,  
 Mini Bye Pass Road,  
 Nellore – 524 003.



**(d) Details of prospecting carried out**

As the applied area is a forest land, the water table in the applied area was taken 3.5mts from the surface ground level based on the nearby working quarries. The proposed mining will be taken up to 2.5 mts from the surface by leaving safety buffer area and 50mts buffer from the canal.

**(e) Surface plan area on 1:1000 or 1:2000 scale**

The features are drafted to prepare the Surface cum Surface Geological plan in 1:2000 scale is enclosed as plate No: 3

**(f) Geological plan prepared on a scale 1:1000 or 1:2000**

The features are drafted to prepare the Surface cum Surface Geological plan in 1:2000 scale is enclosed as plate No: 3

**(g) Geological sections on natural scale at suitable interval across the applied area.**

11 Geological cross sections (A-A' to K-K') were drawn perpendicular to the slope direction for profile purpose. The features are drafted to prepare the Geological cross section plan in 1:1000 scale is enclosed as plate No: 3 A.

**(h) Broadly indicate the future problem of exploration with due justification taking into consideration the future tentative excavation programme planned in five years mining plan period.**

| Year                 | No. of Boreholes<br>(Core/RC/ DTH) | Grid Interval | Total Meterage | No. of Pits,<br>Dimensions<br>and Volume | No. of Trenches,<br>Dimensions<br>and Volume |
|----------------------|------------------------------------|---------------|----------------|--|--|
| 1 <sup>st</sup> Year | ---                                |               |                | ---                                      | ---  |
| 2 <sup>nd</sup> Year | ---                                |               |                | ---                                      | ---  |
| 3 <sup>rd</sup> Year | ---                                |               |                | ---                                      | ---  |
| 4 <sup>th</sup> Year | ---                                |               |                | ---                                      | ---  |
| 5 <sup>th</sup> Year | ---                                |               |                | ---                                      | ---  |

**(i) Reserves and Resource as per UNFC. Detailed calculation of reserves shall be stated.****1.0 Details of exploration:**Already carried out in the area:

The mining applied area is a fresh area.

Exploration proposed to be carried out:

As the present area is the continuous stretch of silica sand bed, further prospecting is not necessary. The area has uniform grade of silica sand. It is proposed to excavate the material in the entire applied area. The material is to be excavated by a suitable excavator. The proposed development is shown in the plate No.4.



## 2.0 Geological reserves and grade

### 2.1 Describe briefly prospecting / exploration work done to viz, geological mapping with scale of mapping, trenching etc., along with the evidence already existing about the mineral deposit in the area or in the vicinity.

#### Exploration

As the applied area is a forest land, the water table in the applied area was taken 3.5mts from the surface ground level based on the nearby working quarries. The proposed mining will be taken up to 2.5 mts from the surface by leaving safety buffer area and 50mts buffer from the canal. Based on this data all the Geological Cross Sections were made.

### 2.2 Reserves estimation in the approved Mining Plan with grade:

The geological reserves of sand were estimated under the in-suit categories are tabulated in the following chapters.

The average chemical analysis of sand samples is given as

$\text{Al}_2\text{O}_3 = 1.52\%$ ;  $\text{Si O}_2 = 96.29\%$  &  $\text{Fe}_2\text{O}_3 = 0.26\%$

### 2.3 Additional Reserves established category wise (with basis & Parameters considered)

*(Give estimates of geological reserves along with grade under proved, probable categories by standard method of estimation supported by analytical reports.)*

#### **Method of estimation:**

The estimation of ore reserves is made by conventional parallel cross section method using geological cross section. The geological cross sections are prepared at intervals of 50 mts across the strike of the ore body.

The area of individual litho units in each and every cross section is calculated separately the volume between the cross section is arrived on the basis of the averaging the area of parallel cross section and multiplying sectional interval. And tonnage is arrived by multiply by its bulk density (2.0 Tons/Cu.M).

The reserves are estimated based on the Guidelines issued and the following Reserves are projected as 'Proved Category'.

#### **Reserves**

The Insitu reserves of all grades, thus estimated in the Plan from surface to the total depth of the sand zone which includes Water Table and in safety zone above the water table and the Mineable zone.



As the applied area is a forest land, the water table in the applied area was taken 3.5mts from the surface ground level based on the nearby working quarries. The proposed mining will be taken up to 2.5 mts from the surface by leaving safety buffer area and 50mts buffer from the canal.

Based on the existing mining leases in the surrounding of the applied area, the influence of the pit up to ground water level is considered as 'Proved Deposit'.

As the entire applied area is occupied by the single litho unit silica sand deposit with East-West trend with shallow towards North. The litho units show a conformable sequence with gradational transitions. Hence, cross sectional area method is adopted for estimation of reserves with sectional influence of 50 M. The volume arrived from the cross sectional area is multiplied with the sectional influence and tonnage factor 2.0 MT for calculates the reserves.

The reserves of Silica Sand are computed by using Cross Sectional Method. 11 Cross Sections A-A' to K-K' were drawn perpendicular at equal distances of 50 M (Average) and cross sectional area each section multiplied with sectional influence (50 M) and Tonnage Factor 2.0 gives reserves. 100% recovery of Silica Sand is considered for Reserve Estimation.

It was mentioned that the working pits of the surrounding quarries and the structural feature like strike, dip and width the sand body is well exposed. The thickness of the mineral is proved by the pitting up to 2.5 M the reserves are re-estimated by cross sectional method under single category of Mineral Reserves (Proved – 111)

**Silica Sand Reserves :** Based on the data collected from working pits of the surrounding quarries, the Silica Sand reserves are estimated under single category of Mineral Reserves (G1) by cross section method as described below.

The present nearby mine working west side of the applied area and surface features show the occurrence of Silica Sand as a Marine depositional formation the strike direction of NE – SW with the depth of the sand body is proved up to 2.5 M by trail Pits. So the reserves, which are available up to 2.5 M below along is considered for proved (UNFC – 111) category.

The reserves are estimated by multiplying the cross sectional area with the influence distance of section, tonnage factor (T.F). The tonnage factor of Silica Sand is considered as 2.0 and total reserves are mineable reserves. Since, the Silica Sand is formed by tidal action to entire width and length of the applied area. So the float Silica Sand reserves are estimated to an average thickness of 2.5 M from the surface under proved category.



**j) Feasibility report along with financial analysis per economic viability of the deposit:**

**Category of Deposit as per UNFC guidelines:** As per the UNFC guidelines the reserves are categorized as 111 categories for the following reasons.

**GEOLOGICAL AXIS (G1):**

Geological parameters considered for proved category -G1

Geological Study: The Applicant has undertaken Geological study as following.

**a. Geological Survey**

A topographical survey with total station was carried out in the total applied area. The boundary pillars were demarcated in the mine. A topographical map is prepared in 1:1000 scale and all the surface features, contours etc., are shown.

The Geological mapping is not very critical to be marked as the entire areas under study is only sand. There are no surface exposures to be marked on the geological plan. However important ecological features like dunal springs, and 'Sona Channels' are marked on the mapped drawing wherever they are observed

**b. Geochemical Survey**

This site does not need any geochemical survey and hence is not carried out.

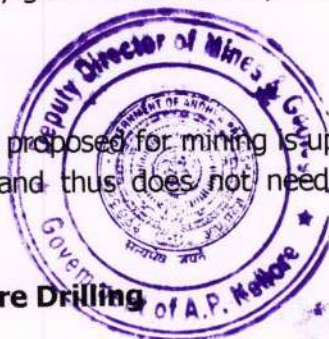
**c. Geophysical Survey**

The entire material that is proposed for mining is up to 2.5 meters from the surface. It is also physically visible and thus does not need any geophysical survey for truth establishment.

**d. DTH Drilling and Core Drilling**

The entire material that is under proposal for mining is on the top of the surface only with the first 2 to 2.5 meters. This does not need any additional establishment of the deposit properties. Thus the DTH drilling and Core drilling is not needed in this project.

With the above exploration conducted in this mining applied area, it is classified under G1 axis and thus the geological parameter as '1'.





**e. Reserves calculation:**

The reserves are arrived in the 'Cross-Sectional' method. For this purpose the cross sections are drawn at an interval of 50 m and the areas of cross sections are utilized for multiplying with the areas of influence. The volumes thus arrived and their category is given below.

| <b>MINEBALE RESERVES FROM QUARRY</b> |                 |                  |               |                         |                           |
|--------------------------------------|-----------------|------------------|---------------|-------------------------|---------------------------|
| <b>Section</b>                       | <b>Sec Area</b> | <b>Influence</b> | <b>Volume</b> | <b>Specific Gravity</b> | <b>Quantity (Tonnage)</b> |
|                                      | Sq.m            | M                | Cu.M.         |                         | MT                        |
| A-A'                                 | 1763            | 50.0             | 88150         | 2                       | 176300                    |
| B-B'                                 | 1702            | 50.0             | 85100         | 2                       | 170200                    |
| C-C'                                 | 1694            | 50.0             | 84700         | 2                       | 169400                    |
| D-D'                                 | 1750            | 50.0             | 87500         | 2                       | 175000                    |
| E-E'                                 | 1502            | 50.0             | 75100         | 2                       | 150200                    |
| F-F'                                 | 1305            | 50.0             | 65250         | 2                       | 130500                    |
| G-G'                                 | 1262            | 50.0             | 63100         | 2                       | 126200                    |
| H-H'                                 | 1209            | 50.0             | 60450         | 2                       | 120900                    |
| I-I'                                 | 1207            | 50.0             | 60350         | 2                       | 120700                    |
| J-J'                                 | 1250            | 50.0             | 62500         | 2                       | 125000                    |
| K-K'                                 | 1150            | 46.0             | 52900         | 2                       | 105800                    |
| <b>Total</b>                         |                 |                  |               |                         | <b>1570200</b>            |

Below table shows the ore reserves established afresh after re-casting all the geology and its section.

|   |     |
|---|-----|
| Total Waste (OB) Generation from Final Pit Slope      | Nil |
| Total Waste Generation from Silica Sand               | Nil |
| Total Silica Sand Resources from Reef of the Ore Body | Nil |

**The reserves blocked under the buffer zone of 7.5m within the boundary:**

| Area  | Depth | Volume | Specific Gravity | Quantity     |
|-------|-------|--------|------------------|--------------|
| Sq.m  | mts   | Cu.M   | -                | MT           |
| 19666 | 2.5   | 49165  | 2                | <b>98330</b> |

**Reserves Blocked Under 50 Mts Buffer Zone from Spring canal and road:**

| Area | Depth | Volume | Specific Gravity | Quantity     |
|------|-------|--------|------------------|--------------|
| Sq.m | mts   | Cu.M   | -                | MT           |
| 9981 | 2.5   | 24953  | 2                | <b>49905</b> |

A total quantity of **148235 MT** of Silica Sand was not available for mining.

- The internal roads are of temporary in nature the follow the suite of pits that will be formed.
- No electrical lines are passing over the subject area.

**Total Non-Mineable Reserves:**

|    |  |               |           |
|----|--|---------------|-----------|
| a) | Under 7.5 M Barrier                        | 98330         | MT        |
| b) | Under 50 Mts Buffer Zone from Spring canal | 49905         | MT        |
| c) | Other blocked reserves (if any)            | 0             | MT        |
|    | <b>TOTAL</b>                               | <b>148235</b> | <b>MT</b> |



As such, the reserves are classified in accordance with UNFC code which is as follows:

### UNFC CLASSIFICATION OF ESTIMATED RESERVES AND RESOURCES

|    | UNFC Classification                                    | Code | Quantity of ROM |
|----|--|------|-----------------|
|    |  |      | MT              |
| A  | Mineral Reserve  |      |                 |
| 1. | Proved Mineral Reserve                                 | 111  | <b>1570200</b>  |
| 2. | Probable Mineral Reserve (Detailed exploration)        | 121  | --              |
| 3. | Probable Mineral Reserve (General exploration)         | 122  | --              |
| B  | Remaining Resources                                    |      |                 |
| 1. | Feasibility Mineral Resource                           | 211  | --              |
| 2. | Pre-feasibility Mineral Resource(Detailed exploration) | 221  | --              |
| 3. | Pre-feasibility Mineral Resource(General exploration)  | 222  |                 |
| 4. | Measured Mineral Resource                              | 331  | --              |
| 5. | Indicated Mineral Resource                             | 332  | --              |
| 6. | Inferred Mineral Resource                              | 333  | --              |
| 7. | Reconnaissance Mineral Resource                        | 334  | --              |
|    | <b>Total Mineral Resources (A+B)</b>                   |      | <b>1570200</b>  |

The limit of the proved mineral reserves is marked on the geological plan & Geological cross sections enclosed as Plate No.3 & 3 A.

#### **FEASIBILITY AXIS (F1):**

Feasible parameters considered for proved category -F1

Feasibility Study: The Applicant has undertaken feasibility study as following.

#### **a. Geological feasibility:**

The Silica Sand is mineralized in the entire area in the form of sand dunes. These dunes do not have any dip or strike. These are outcome of Marine Tidal action (Deposition) over prolonged periods. The geological feasibility of the material is generally affected due to contaminations if any, major structural disturbances if any, or any other factors that are geological in nature and detrimental to the operations. In the present case the reserves are geologically feasible as these do not have any shortcomings of above geological nature. To further establish the fact that the deposit is geologically feasible.

#### **b. Mining feasibility/ Mineability**

The deposit is feasible technically for mining operations. The operations do not present any technical difficulty in planning, transport, stability or other technical factors. Thus the area is mineable and is thus feasible from mining point of view.

#### **c. Environmental feasibility:**

The environmental feasibility is addressed in two contexts. One is the local environment and climate that is feasible for mining operations. Second one is the environmental sensitivity.

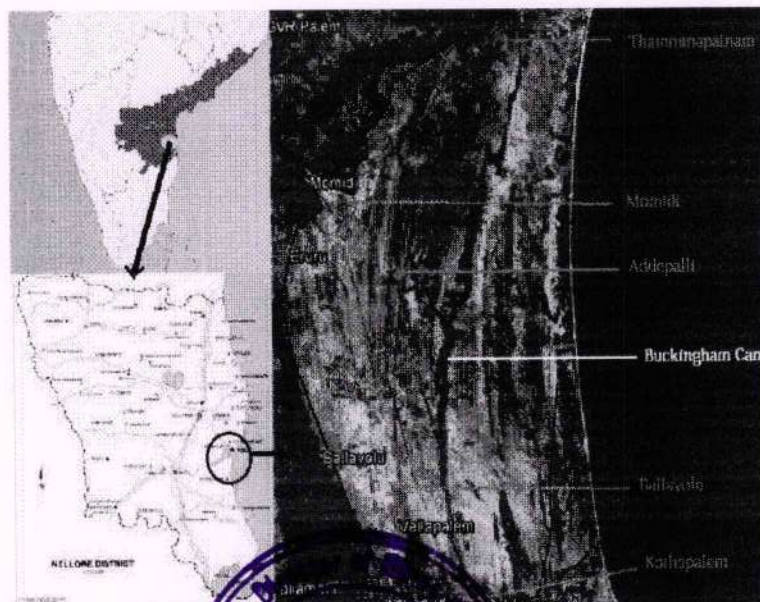
The area is environmentally favorable for mining as far as the climatic environment, the habitat, and other environmental features are concerned.



However the environment is sensitive as far as the eco-sensitivity is concerned. A brief description of the same is given below.

A committee from SEAC AP has inspected Chillakur and Kota Mandal's of this area and found the eco-sensitive nature of this area. Some important points of the report are reproduced below.

Chillakur and Kota Mandal's of Sri Potti Sree Ramulu Nellore district, lies between North Latitudes  $14^{\circ}02''$  and  $14^{\circ}10''$  and East Longitudes  $79^{\circ}51''$  and  $80^{\circ}09''$  in the Survey of India topographic maps 57 N/16 and 66 C/1 on a scale of 1:50,000 (Fig. 1) and are the coastal Chillakur Mandals of the southern part of the district and lies in between the mouths of two rivers, Kandaleru in the north and Swarnamukhi in the south.



The climate of the district is moderate and characterized by sub-tropical climate. The period from December to middle of February is generally the season of fine weather. The summer season is from March to May. This is followed by monsoon period from June to September, the post monsoon from October to December and the winter season from January to February. The annual normal rainfall of district is 1084 mm.

The peculiarity of this district is that contribution of SW monsoon is far less than the contribution of NE monsoon rainfall. About 70% of the annual rainfall is contributed by the NE monsoon. In general the amount of rainfall is increases from west to east about 900 to 1300 mm in the district.

The mean daily maximum temperature in the district is about  $38^{\circ}\text{C}$  in May and the mean daily minimum temperature is about  $20^{\circ}\text{C}$  in December/ January. Temperature in the district begins to rise from the middle of February till May. With the onset of southwest monsoon in June, the temperature decreases to about  $20^{\circ}\text{C}$  and is more or less uniform during the monsoon period. The relative humidity ranges from 60 to 80% in the mornings, whereas in the evenings it varies from about 45 to more than 70%.

The annual rainfall during 2012 is 889 mm and the long term Normal Annual Rainfall as was reported by the CGWB (2013) was at 1,084 mm. October and November months have shown relatively high rainfall compared to all the other months.



### Geology:

Pennar and Swarnamukhi rivers are the major contributors to the formation of the deltaic plains in the district. The deltaic and coastal plain extends from north to south along the eastern margin of the district all along the coast (CGWB, 2013). The southern fringe of the coastal plain is occupied by Pulicat lake, few kilometres North to this lake, a vast stretch of sandy coastal plains region occurs between the mouths of Swarnamukhi river and Kandaluru Creek. This sandy coastal plain extends up to a distance of 5 to 6 km from sea coast, and appears in a crescent shape, with deposition of sands up to 8 m MSL, indicating a formation of the coastal dunal systems. This coastal dunal system is the specific interest of the present study, which involves the Eastern Part of the Chillakur Mandal, and the northern part of the Kota Mandal.

As per Geological Survey of India, District Resource Maps, these deposits belong to marine to fluvio-marine origin containing tidal flat (Qmb) and deltaic (Qfm) deposits with unconsolidated sand, silt and clay sediments in varying amounts with variable effective porosity to carry fresh to saline groundwater in varying amounts and dune sands have an aeolian origin (Phani, 2014). Ayyavariah et al., 2013 opine that the land of the present dunal system was once (Pleistocene to Holocene period) submerged under sea water, and exposed after a long spell of global glaciations, which was followed by sand deposition and consequently through aeolian process the present dunal system appeared.

### Hydrology:

The general drainage pattern was Dendritic to sub-dendritic. Both, Kandaluru and Swarnamukhi rivers are non-perennial at the upstream lands. The water table, as was observed by the study team in the Mined areas, was exposed at depth of 3.0 to 5.0 m, from the general ground level. The study area, being Coastal dunal landforms, in all probability formed over an impervious clay beds, the water table is shallow. CGWB (2013) reports that fresh water aquifers occur under phreatic to confined conditions in the sand dunes of Nellore district.

However, unfortunately the CGWB did not mention about the Sandy Springs and Spring Channels (Sonas and Sona Kaluvas, as they are popularly called by the natives), the sensitivity of which is a specific subject of this study. The district Irrigation department has also not specified anything about the Sonas and Sona Kaluvas.

### Demography:

The study area, as described earlier, covers the Eastern Part of the Chillakur Mandal, and the northern part of the Kota Mandal. In this region there are 12 main villages with a total population of 25803 in 7611 Households (Census of India, 2011).

### Ecology of coastal dunes:

The crescent shaped sandy region all along the 15 to 18 km length of the coastline in the study region, and the greater depths of the sand deposition, indicate that the region was formed of the coastal sand dunes, and over a long period of ecological succession, the present Psammose stage has emerged, which is being mainly used for agriculture by the local communities.

The ecosystem formed in the region is unique and perhaps the study region is the only region with such ecosystem being reported, and can be called as "Dunal Wetlands". Geologically the region favoured the formation of dunes, and the climate has favoured the formation of dunal springs, while the people's traditional knowledge has contributed for the wise use of the spring for their livelihoods. Thus, a brief description of the formation of the dunal wetlands system is presented.



### Formation of the Dunes:

Dunes form on coasts where the onshore winds encourage sand blown inland from off a beach while the backshore can support the accumulation of the sand. Any part of the upper beach, once dry, can lose sand to the wind, especially if the sand is fine, and dune formation proceeds in the direction towards which the wind direction is predominant.

The region had a north-south strike of coastline (the general strike of the Indian east coast is NE-SW) could have made the winds more stronger compared to the other regions, and enabled the dunal drifts to as far as 6 to 7 km from the coastline, and the predominant landward winds have shaped the dunal region in to crescent shape.

Primary dunes are drifted backwards along the wind direction and helps formation of another set of dunes, back dunes. A Slack zone can be clearly seen between the zones of fore dunes and back dunes, and also between different sets of back dunes. The contours of these slack zones determine the flow of groundwater in the dunes formed over beds of impervious soils.

### Ecosystems:

The dunes and their associated springs have become the support for two types of ecosystems in the region: *Psammosere grasslands* and *Dunal agro-ecosystems*. The former is a natural ecosystem, while the latter one is a man-made ecosystem. Both are connected through the third ecosystem, the lotic ecosystem of Sona Kaluvas.

Biodiversity of the Psammosere grasslands and the lotic (Flowing water) spring channel systems were not so far explored. However, a preliminary observation of the Psammos, reveal that the dominant plant species are *Portulaca quadrifida*, *Borreria hispida*, *Pedaliu murex*, *Solanum surretense*; and grasses like *Fimbristylis bis-umbellata*, *Dactyloctenium aegyptium* and *Perotis indica*. Plantations of *Casuarina*, *Borassus* (Palmyra). Among the fauna, the study team could find evidence of several species of boreal habitat, like Bandicoot, Sand Boa etc.

In the lotic systems, Sona Kaluvas, the aquatic vegetation resembles like a lentic body. A Lotus species and *Pistia* species seem to be the most dominant components, while four species of terrestrial grass species dominated the banks. Of the fauna, the lotic system was evidently supporting a good number of lower animals like insects and molluscs, while some species of fish also were seen in one sona kaluva at Kothapalem. Thus, the *sona kaluvas* are delicate and fragile ecotones of natural dunal ecosystems (psammoseres) and manmade agro ecosystem.

**d) Processing :** No Processing is required for Silica Sand.

**e) Infrastructure, constructions and services :**

Temporary office building, rest house for labor, drinking water and toilets will be developed in the Mines and they will be shown for the coming plan/scheme period also.

**f) Costing**

**Capital Cost:** As the quarry is proposed to work in the Semi Mechanised (OTFM) Opencast Method of Mining without drilling and blasting, it may cost about Rupees.10,00,000/- as capital investment required for purchasing quarry equipment, Infrastructure and advances to labour.

**Operating Cost / Ton:** The estimated cost of production of Silica is Rs.300/- per ton.



**ECONOMIC AXIS (E1):**

Economical parameters considered for proved category -E1  
 Economical Study: The Applicant has undertaken Economical study as following.

**a) Detailed Exploration**

The detailed exploration including geological survey and sand probing has indicated recoverable / saleable silica sand reserves of **1570200 MT**, which is a feasible quantity for economic operations versus the investment and return on investment.

**b) Mining Report / Mining Plan / Working Mines**

The present Mining plan is being prepared after detail study of exploration and proper design implemented as per guidelines of SEIAC sub-committee. The observations of workings of this mine and nearby working mines indicate that the mines can economically mineable up to 2.5 m depth.

**c) Specific end use grades of reserves**

All the reserves assessed are above the cut-off grade of above 97.55% Silica Sand. At present depth, the total ore extracted in the mine is economically consumed in the Glass Industry.

**d) Specific knowledge of Forest/Non-forest and other Land use data**

The total land 80.32 Ac /32.48 Ha including Mining Area 75.71 Ac (30.62 Ha) and Safety Zone Area 4.61 Ac (1.86 Ha) of land is Forest land. The total land is economically used for mining purpose.

**k. Mineral Reserves****(i) Mode of mining, recovery factor, Mining Loses, Processing Loses etc.,**

Mode of Mining:

Semi Mechanised (OTFM) Opencast Method of Mining without drilling and blasting.

Recovery factor: 100% Recovery.

Mining Loses: No Mining Loses.

Processing Loses: No Processing Loses.

**(ii) Cut of grade, ultimate pit depth**

**Cut of grade** : Not applicable

**Ultimate pit depth** : 2.5 m below the ground surface





- (iii) **Mineral blocked due to presence of /maintenance of benches, barriers, internal roads electrical lines etc.,**

**The reserves blocked under the buffer zone of 7.5m within the boundary:**

| Area  | Depth | Volume | Specific Gravity | Quantity     |
|-------|-------|--------|------------------|--------------|
| Sq.m  | mts   | Cu.M   | -                | MT           |
| 19666 | 2.5   | 49165  | 2                | <b>98330</b> |

**Reserves Blocked Under 50 Mts Buffer Zone from Spring Canal area and road :**

| Area | Depth | Volume | Specific Gravity | Quantity     |
|------|-------|--------|------------------|--------------|
| Sq.m | mts   | Cu.M   | -                | MT           |
| 9981 | 2.5   | 24953  | 2                | <b>49905</b> |

A total quantity of **148235 MT** of Silica Sand was not available for mining.

- The internal roads are of temporary in nature the follow the suite of pits that will be formed.
- No electrical lines are passing over the subject area.

**Total Non-Mineable Reserves:**

|    |   |               |           |
|----|---|---------------|-----------|
| a) | Under 7.5 M Barrier                                 | 98330         | MT        |
| b) | Under 50 Mts Buffer Zone from Spring Canal and road | 49905         | MT        |
| c) | Other blocked reserves (if any)                     | 0             |           |
|    | <b>TOTAL</b>  | <b>148235</b> | <b>MT</b> |

**(iv) Total Mineral reserves**

| Category of Reserves |                                 | Reserves in MT | Grade |
|----------------------|---------------------------------|----------------|-------|
| Proved (111)         |                                 | <b>1570200</b> | -     |
| Probable (121)       |                                 | 0              | -     |
| Resources            | 7.5 mts buffer area             | 98330          | -     |
| Blocked under        | 50 Mts Buffer from Spring Canal | 49905          | -     |
| <b>Total</b>         |                                 | <b>1718435</b> | -     |

**(v) Mineable reserves and anticipated life of mine**

|                              |   |                         |
|------------------------------|---|-------------------------|
| Total mineable reserves      | : | <b>1570200 MT</b>       |
| Average annual production    | : | <b>250583 MT</b>        |
| Anticipated life of the mine | : | <b>6.26 Say 7 Years</b> |

| Year                 | Production in MT |
|----------------------|------------------|
| 1 <sup>st</sup> Year | 250140           |
| 2 <sup>nd</sup> Year | 250036           |
| 3 <sup>rd</sup> Year | 250020           |
| 4 <sup>th</sup> Year | 250078           |
| 5 <sup>th</sup> Year | 252642           |
| <b>Total</b>         | <b>1252916</b>   |
| <b>Average</b>       | <b>250583</b>    |



### 3.0 MINING

The silica sand is exposed in the entire applied area. the water table in the applied area was taken 3.5mts from the surface ground level based on the nearby working quarries. The proposed mining will be taken up to 2.5 mts from the surface by leaving safety buffer area and 50mts buffer from the canal. The applicant is intends to operate the mine by **Semi mechanised (OTFM) opencast method of working without drilling and blasting.**

#### (a) Open cast mining

It is proposed to operate the quarry by Semi mechanised (OTFM) opencast method of working without drilling and blasting with the help of a suitable excavator. The silica sand was loaded by an excavator in to tippers of 10 MT capacity and transported to the end users. The proposed Production & Development Plan for the plan period shown in Plate 4.

#### (i) Description of existing / proposed method for excavation with all design parameters indicating on plans / sections.

The sand is available in entire applied area. However, it is proposed to work by "**Semi Mechanised (OTFM) Opencast Method of Mining without drilling and blasting**" in the applied area from North to South side of the applied boundary by excavating two benches. The area has been examined in the light of the Norms/Guidelines given by Environmental, Ground water table department. The water table has been encountered at depth 3.50 mts in the nearby quarries. Hence the proposed mining is confined up to depth of 2.50 m i.e., 1m above ground water table in the applied area. The maximum depth of the proposed mining is 2.5 mts only .The bench height will be maintained 1.5 m & 1 m and bench width will be maintained more than bench height. In this five years plan period it is proposed to raise about **1252916 MT** of sand an average production of **250583 MT/year** by advancing the North face of the working pits towards South as shown in plate no. 4.

#### (ii) Indicate year wise tentative excavation indicating development, ROM, pit wise as in table:

| Year                 | Pit No | Total tentative Exaction | Top Soil | OB/ SB/ IB | ROM from Mineralized Zone |               |                | Total waste | ROM waste ratio |
|----------------------|--------|--------------------------|----------|------------|---------------------------|---------------|----------------|-------------|-----------------|
|                      |        | MT                       | Cu.M     | MT         | Clean Ore 100%            | Sub grade ore | Mineral reject | MT          |                 |
| 1 <sup>st</sup> Year | ---    | 250140                   | ---      | ---        | 250140                    | ---           | ---            | ---         | 1:0             |
| 2 <sup>nd</sup> Year | ---    | 250036                   | ---      | ---        | 250036                    | ---           | ---            | ---         | 1:0             |
| 3 <sup>rd</sup> Year | ---    | 250020                   | ---      | ---        | 250020                    | ---           | ---            | ---         | 1:0             |
| 4 <sup>th</sup> Year | ---    | 250078                   | ---      | ---        | 250078                    | ---           | ---            | ---         | 1:0             |
| 5 <sup>th</sup> Year | ---    | 252642                   | ---      | ---        | 252642                    | ---           | ---            | ---         | 1:0             |
| Total                | ---    | <b>1252916</b>           | ---      | ---        | <b>1252916</b>            | ---           | ---            | ---         | <b>1:0</b>      |
| Average              | ---    | <b>250583</b>            | ---      | ---        | <b>250583</b>             | ---           | ---            | ---         | <b>1:0</b>      |



**YEAR WISE PRODUCTION FOR FIVE YEARS MINING PLAN PERIOD:****1<sup>st</sup> Year:**

| Section      | Sec Area | C/S influence | Volume | Specific Gravity | Quantity/Tonnage |
|--------------|----------|---------------|--------|------------------|------------------|
|              | Sq.Mts   | Mts           | Cu.M   | MT/Cu.M          | MT               |
| A-A'         | 1479     | 50.0          | 73950  | 2                | 147900           |
| B-B'         | 1420     | 36.0          | 51120  | 2                | 102240           |
| <b>Total</b> |          |               |        |                  | <b>250140</b>    |

**2<sup>nd</sup> Year:**

| Section      | Sec Area | C/S influence | Volume | Specific Gravity | Quantity/Tonnage |
|--------------|----------|---------------|--------|------------------|------------------|
|              | Sq.Mts   | Mts           | Cu.M   | MT/Cu.M          | MT               |
| B-B'         | 1420     | 14.0          | 19880  | 2                | 39760            |
| C-C'         | 1413     | 50.0          | 70650  | 2                | 141300           |
| D-D'         | 1437     | 24.0          | 34488  | 2                | 68976            |
| <b>Total</b> |          |               |        |                  | <b>250036</b>    |

**3<sup>rd</sup> Year:**

| Section      | Sec Area | C/S influence | Volume | Specific Gravity | Quantity/Tonnage |
|--------------|----------|---------------|--------|------------------|------------------|
|              | Sq.Mts   | Mts           | Cu.M   | MT/Cu.M          | MT               |
| D-D'         | 1437     | 24.0          | 34488  | 2                | 68976            |
| E-E'         | 1260     | 50.0          | 70650  | 2                | 126000           |
| F-F'         | 1027     | 26.0          | 26702  | 2                | 49296            |
| <b>Total</b> |          |               |        |                  | <b>250020</b>    |

**4<sup>th</sup> Year:**

| Section      | Sec Area | C/S influence | Volume | Specific Gravity | Quantity/Tonnage |
|--------------|----------|---------------|--------|------------------|------------------|
|              | Sq.Mts   | Mts           | Cu.M   | MT/Cu.M          | MT               |
| F-F'         | 1027     | 26.0          | 26702  | 2                | 53404            |
| G-G'         | 1007     | 50.0          | 50350  | 2                | 100700           |
| H-H'         | 1021     | 47.0          | 47987  | 2                | 95974            |
| <b>Total</b> |          |               |        |                  | <b>250078</b>    |

**5<sup>th</sup> Year:**

| Section      | Sec Area | C/S influence | Volume | Specific Gravity | Quantity/Tonnage |
|--------------|----------|---------------|--------|------------------|------------------|
|              | Sq.Mts   | Mts           | Cu.M   | MT/Cu.M          | MT               |
| H-H'         | 1021     | 3.0           | 3063   | 2                | 6126             |
| I-I'         | 1049     | 50.0          | 52450  | 2                | 104900           |
| J-J'         | 1050     | 50.0          | 52500  | 2                | 105000           |
| K-K'         | 398      | 46.0          | 18308  | 2                | 36616            |
| <b>Total</b> |          |               |        |                  | <b>252642</b>    |



**YEAR WISE PRODUCTION FOR FIVE YEARS MINING PLAN PERIOD**

| <b>Year</b>          | <b>Production in MT</b> |
|----------------------|-------------------------|
| 1 <sup>st</sup> Year | 250140                  |
| 2 <sup>nd</sup> Year | 250036                  |
| 3 <sup>rd</sup> Year | 250020                  |
| 4 <sup>th</sup> Year | 250078                  |
| 5 <sup>th</sup> Year | 252642                  |
| <b>TOTAL</b>         | <b>1252916</b>          |
| <b>Average</b>       | <b>250583</b>           |

The sand is available in entire applied area. However, it is proposed to work by "**Semi Mechanised (OTFM) Opencast Method of Mining without drilling and blasting**" in the applied area from North to South side of the applied boundary by excavating two benches. The area has been examined in the light of the Norms/Guidelines given by Environmental, Ground water table department. The water table has been encountered at depth 3.50 mts in the nearby quarries. Hence the proposed mining is confined up to depth of 2.50 m i.e., 1m above ground water table in the applied area. The maximum depth of the proposed mining is 2.5 mts only .The bench height will be maintained 1.5 m & 1 m and bench width will be maintained more than bench height. In this five years plan period it is proposed to raise about **1252916 MT** of sand an average production @ **250583 MT/year** by advancing the North face of the working pits towards South as shown in plate no. 4.





**Deployment of mining machinery:**

The Silica sand is loose in structure; therefore, it is proposed to undertake mining without drilling and blasting. The applicant is intended to work by an excavator only for loading.

| Machinery for        | Type                    | Nos. required | Capacity    | Motive power/ HP | Make |
|----------------------|-------------------------|---------------|-------------|------------------|------|
| Loading & excavating | L&T PC 200              | 2             | 0.9 Cu.M    | 150 HP           | 2020 |
| Transportation       | Tippers (Ashok Leyland) | 3             | 10 MT truck | 100 HP           | 2021 |

**Adequacy of machineries/ mine equipment Plan:**

1. Effective working days : 300 days per year,
2. No. of Shifts : One shift per day
3. Working hours per shift : 7 effective hours
4. Availability of machinery : L & T PC-200

Calculations for excavator timings and excavator required are given below:

|   |  |               |                |
|---|--|---------------|----------------|
| Average Annual production   |  | <b>250583</b> | MT             |
| Working days per year   |  | <b>300</b>    | Days           |
| Production Per day  | Annual production/working days           | <b>835</b>    | MT             |
| Machine (Excavator) proposed  | L&T - PC 200                             |               |                |
| Bucket capacity (BC)  |  | <b>0.9</b>    | m <sup>3</sup> |
| Fill factor (FF)  |  | <b>0.9</b>    |                |
| Swelling factor (SF)  |  | <b>1.1</b>    |                |
| One bucket Loading capacity in Cu.M   | BC*FF/SF                                 | <b>0.736</b>  | Cu.M           |
| One bucket Loading capacity in MT   | Cu.M x 2                                 | <b>1.473</b>  | MT             |
| No. of Buckets required for one tripper or truck of 4.0 Cu.M                              | 4.0 Cu.M/Loading capacity                | <b>5.43</b>   | Buckets        |
| No. of Buckets required for one tripper or truck of 10 MT Cu.M                            | 8 MT/Loading capacity                    | <b>5.43</b>   | Buckets        |
| <b>Time Calculation :</b>   |  |               |                |
| Time taken for one bucket loading   |  | <b>60</b>     | sec            |
| Time taken for one tripper or truck   | N0. of buckets * one bucket time         | <b>326</b>    | sec            |
| No. of tippers or trucks loading per hour with 90 percent efficiency                      | (60 min/time taken for 1 tripper)*0.9    | <b>9.9</b>    | tippers        |
| total quantity loaded per hour  | 8 MT*tippers per hour                    | <b>80</b>     | MT             |
| Time taken for handling of daily production by proposed excavator and tripper combination | Day production/ quantity loaded per hour | <b>10.50</b>  | Hrs            |

- No leveling the backfilled activity for the silica sand.
- Roughly 11 hours of utilization of the machine for Silica sand loading.



**(iii) Dump management**

**a) Nature of waste:**

The deposit is uniform composition and no generation of waste for disposal.

**b) Selection of dump site**

Not applicable.

**c) Maximum height and spread of dumps:**

There is no generation of dumps as the entire excavated material is deposited in sheds and will be dispatched by Lorries whenever there is demand.

**(iv) Layout of Mine Workings, pits, roads etc.,**

**Production schedule:** It is proposed to produce **1252916 MT** of Silica sand with 100% recovery during the Five years Mining plan period with an average annual production of **250583 MT** from an area of **267582 Sq. Mts**, Benches of 1.5 and 1.0 m height will be developed during the plan period.

**Benches:** The bench height is planned to make 1.5 and 1.0 mts height with 60 to 65° slopes and 1 in 16 gradient hauling roads.

**Location of the proposed workings:** The applicant proposed to take up open cast operations in the applied area between the grids E 398200 – E 399000 & N 1564200 - N 1565000. The excavation activities will be taken up in the proposed working area advancing from North to South as shown in Mine layout Plan, enclosed as Plate no. 4.

**(b) Under Ground Mining**

Not proposed.





#### 4.0 MINE DRAINAGE

|   |  |  |
|---|--|--|
| a | Minimum and Maximum depth of water table       | The water table in the area is 3.5m below the surface. |
| b | Indicate maximum and minimum depth of workings | The depth of the mine will go up to 2.5m only.         |
| c | Quantity and Quality of water                  | potable  |
| d | Regional Drainage pattern                      | Sub-Dendritic  |

#### 5.0 STOCKING OF MINERAL REJECT / SUB GRADE MATERIAL AND DISPOSAL OF WASTE

Not applicable as on mineral rejects and waste.

##### **Stacking of sub- grade minerals:**

The grades of silica sand of different sizes as per customer's specifications will be stacked in different thatched sheds and marketed according to the demand.

##### **Selection of size for stacking:**

No permanent stacking is needed. The silica sand will be directly loaded in the tippers and send to the consumer/end user directly.

##### **Height and spread of stock:**

Each heap is spread over an area of 100 sq. mts and to a height of 2 mts.

#### 6.0 USE OF MINERAL AND MINERAL REJECT

The silica sand produced from the mine will be supplied to molding and glass industries and foundries.

The value of silica sand in the market is fluctuating. The cost of silica sand is Rs.800/- per ton of size of 60 to 80 mesh

No mineral rejects are anticipated.





**7.0 PROCESSING OF ROM AND MINERAL REJECT**

Not applicable.

**8.0 OTHERS****a) SITE SERVICES**

Office, Rest Rooms, First Aid Room, Shelters, and Water for drinking will be provided outside the quarry premises.

**b) EMPLOYMENT POTENTIAL:****Proposed man Power at Mine:**

The details of designated management & technical personnel with qualification and potentiality of employment for this mine is tabulated below:

**Employment Potential of Managerial & Technical Personnel:**

| <b>S.No.</b> | <b>Category</b> | <b>Designation</b>         | <b>No .of persons</b> |
|--------------|-----------------|----------------------------|-----------------------|
| 1.           | Skilled         | Mines Manager              | 1                     |
|              |                 | Mining mates               | 1                     |
|              |                 | Operators & Drivers        | 5                     |
|              |                 | Clerical staff             | 1                     |
| 2.           | Semi-Skilled    | Other semi-skilled workers | 2                     |
| 3.           | Un skilled      | Un skilled workers         | 5                     |
|              | Total           |                            | <b>15</b>             |





## PART – B

### PROGRESSIVE MINE CLOSURE PLAN

#### 1.0 ENVIRONMENT BASE LINE INFORMATION

| i    | Exiting land use pattern                        | Head   | Area in Ha    |                    |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
|------|---|--|---------------|--------------------|-----------|---------------|--------------------|---|-----------|----|------|----|---|--------------|------|------|------|---|----------------|------|------|-----|---|------------|----|------|-----|--|--|
|      |   |  |               |                    |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
|      |   | Area under mining  |               | 0                  |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
|      |   | Infrastructure   |               | 0                  |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
|      |   | Green Belt   |               | 0                  |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
|      |   | Dumps (Existing)/Stack yards   |               | 0                  |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
|      |   | Roads  |               | 0                  |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
|      |   | Mineral stacking   |               | 0                  |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
|      |   | <b>TOTAL AREA UTILISED</b>   |               | <b>0</b>           |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
|      |   | <b>TOTAL MINE APPLIED AREA</b>   |               | <b>32.480</b>      |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
| ii   | <b>Water Regime</b>                             | Two spring canals are passing outside (East and West sides) of the applied area. The use and dependence of locals on them are described in the previous sections.  |               |                    |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
| iii  | <b>Human Settlement</b>                         | The nearest village Addepalli is situated 1.00 Km due South East side of the mining applied area. Agriculture and sheep breeding are important profession of the people living in the village besides involving themselves in mining activity.   |               |                    |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
|      |   | <table> <tr> <th>S.No</th><th>Village</th><th>Direction</th><th>Distance (Km)</th><th>Approx. Population</th></tr> <tr> <td>1</td><td>Addepalli</td><td>SE</td><td>1.00</td><td>93</td></tr> <tr> <td>2</td><td>Chinthavaram</td><td>West</td><td>3.40</td><td>2408</td></tr> <tr> <td>3</td><td>Kommaravipalem</td><td>East</td><td>2.10</td><td>550</td></tr> <tr> <td>4</td><td>Mannegunta</td><td>NE</td><td>3.50</td><td>630</td></tr> </table> | S.No          | Village            | Direction | Distance (Km) | Approx. Population | 1 | Addepalli | SE | 1.00 | 93 | 2 | Chinthavaram | West | 3.40 | 2408 | 3 | Kommaravipalem | East | 2.10 | 550 | 4 | Mannegunta | NE | 3.50 | 630 |  |  |
| S.No | Village   | Direction  | Distance (Km) | Approx. Population |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
| 1    | Addepalli                                       | SE   | 1.00          | 93                 |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
| 2    | Chinthavaram                                    | West   | 3.40          | 2408               |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
| 3    | Kommaravipalem                                  | East   | 2.10          | 550                |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
| 4    | Mannegunta                                      | NE   | 3.50          | 630                |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
| iv   | <b>Public Buildings, Places &amp; Monuments</b> | No public buildings, important places and monuments are seen in and around the mining applied area. The applicant will adopt the safety measures while conducting the mining operations as per the Regulations of Metalliferous Mines Regulation -1961.  |               |                    |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
| v    | <b>Sanctuaries</b>                              | No Bird or animal sanctuaries Places are situated within a distance of 10.00 Km.   |               |                    |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |
| vi   | <b>Eco-Sensitive Areas</b>                      | No Eco-Sensitive areas are situated within a distance of 10.00 Km.   |               |                    |           |               |                    |   |           |    |      |    |   |              |      |      |      |   |                |      |      |     |   |            |    |      |     |  |  |



## 2.0 ENVIRONMENTAL IMPACT ASSESSMENT

### a. Land area:

Land Use Pattern of the Mining area during the 5 years plan period will be as follows

| Sl No | Land area Under different head              | Existing land use Area in ha (Within 32.48 ha Forest Area proposed for Diversion) | Proposed land use Area in next 5 years in ha  |                                    | Proposed land use Area in entire 20 years lease period in ha               |           | Remarks  |
|-------|---|---|---|------------------------------------|--|-----------|--|
| 01    | Mining area                                 | 0.000 ha (Applied area is a fresh area)   | Open cast<br>Already broken up area<br>Total  | 26.760 ha<br>0.000 ha<br>26.760 ha | Open cast (Including proposed, waste dumps, OB dumps and mineral stacking) | 26.760 ha | In the mining area of 30.62 ha, <b>26.760</b> ha will be used for mining in 5 years plan period prior to enactment of FAC, 1980.                           |
| 02    | Safety zone / Green belt                    | 0   | 1.860 ha<br><br>Total safety zone proposed: 1.86 ha (7.5 mts all along the mining area) |                                    | 1.860 ha   |           | In addition to the safety zone, plantation will be carried out wherever possible on the surface.   |
| 03    | 50 mts buffer area from the canal and road/ | 0   | 0   |                                    | 3.86 ha  |           | 3.86 ha of area of 50mts buffer area from the canal and road passing outside the applied area it will be used for plantation in the 20 years lease period. |
| 04    | Waste & OB Dump                             | 0   | 0   |                                    | 0  |           | Not proposed   |
| 05    | Infrastructure                              | 0   | 0   |                                    | 0  |           | No building/ infrastructure was proposed within the applied area   |
| 06    | Screening plant                             | 0   | 0   |                                    | 0  |           | No screening plant was proposed within the applied area  |
| 07    | Mineral staking                             | 0   | 0   |                                    | 0  |           | No Mineral staking was proposed in the applied area  |
| 08    | Magazine                                    | 0   | 0   |                                    | 0  |           | Not proposed   |
|       | <b>Total</b>                                | 0   | <b>28.620 ha</b>  |                                    | <b>32.480 ha</b>   |           | -  |





**b. Air Quality:**

There will not be any additional change in the air quality with the proposed modifications in the mining scheme/plan. This is due to the reason that there will not be any additional machinery used for the proposed changes.

**c. Water Quality**

Two spring canals are existed in the East and West side of the applied area. The mining operations do not create any pollutants that may pollute the quality of the water either physically or chemically. However as a part of the conditions compliance of ensuing CFO, yearly water quality will be tested. The same will be furnished to the appropriate authorities.

**d. Noise Levels :**

There is no noise generation except while transporting of the production/dispatch of mineral from mine to destination.

**e. Vibration Levels**

No vibrations of notable level will be generated, as there is no drilling and blasting.

**f. Water Environment**

Two spring canals are existed in the East and West side of the applied area, which are fluctuating on seasonal basis. Although there will be effect on the spring channels due to conventional mining, there will be no major effect on them with the guidelines issued on the methodology of mining. As the modifications to mining plan/scheme are made by following the guidelines, there will be no effect on the system of sona channels.

**g. Acid Mine Drainage**

: No acid will be generated from Silica sand Mines.

**h. Surface Subsidence**

: No subsidence is anticipated in this regime

**i. Socio economies**

**j.** The nearest village Addepalli is situated 1.00 Km due South East side of the mining applied area and the proposed mining activity will fetch employment to the local people which improve socio-economical condition of the surrounding Villagers.

**k. Historical Monuments**

No historical monuments are existing in and around the mine within a radius of 5.0 KM.

**l. Bio-Diversity**

No impact will happen to the Mankind, flora and fauna by the mining operations, and dust which will be under control and within the permissible limits.



### 3.0 PROGRESSIVE RECLAMATION PLAN :

**Reclamation plan :** No part/whole of pit area is proposed for reclamation /back filling as entire area will be active in mining operation up to the end of the plan period.

**Programme of afforestation:** The applicant proposed to take up plantation in the safety zone (1.86 ha area) or will deposit the required amount in the CAMPA account so as to carry out plantation in the safety zone area by the Forest Department as the case may be.

### 4.0 MINED- OUT LAND

Land Use Pattern of the Mining area during the next 5 years will be as follows

| SI No | Land area Under different head              | Existing land use Area in ha (Within 32.48 ha Forest Area proposed for Diversion) | Proposed land use Area in next 5 years in ha  |                                    | Proposed land use Area in entire 20 years lease period in ha                  |           | Remarks  |
|-------|---|---|---|------------------------------------|---|-----------|--|
| 01    | Mining area                                 | 0.000 ha<br>(Applied area is a fresh area)  | Open cast<br>Already broken up area<br>Total  | 26.760 ha<br>0.000 ha<br>26.760 ha | Open cast<br>(Including proposed, waste dumps, OB dumps and mineral stacking) | 26.760 ha | In the mining area of 30.62 ha, <b>26.760 ha</b> will be used for mining in 5 years plan period prior to enactment of FAC, 1980.                           |
| 02    | Safety zone / Green belt                    | 0   | 1.860 ha<br>Total safety zone proposed: 1.86 ha (7.5 mts all along the mining area) |                                    | 1.860 ha  |           | In addition to the safety zone, plantation will be carried out wherever possible on the surface.   |
| 03    | 50 mts buffer area from the canal and road/ | 0   | 0   |                                    | 3.86 ha   |           | 3.86 ha of area of 50mts buffer area from the canal and road passing outside the applied area it will be used for plantation in the 20 years lease period. |
| 04    | Waste & OB Dump                             | 0   | 0   |                                    | 0   |           | Not proposed   |
| 05    | Infrastructure                              | 0   | 0   |                                    | 0   |           | No building/ infrastructure was proposed within the applied area   |
| 06    | Screening plant                             | 0   | 0   |                                    | 0   |           | No screening plant was proposed within the applied area  |
| 07    | Mineral staking                             | 0   | 0   |                                    | 0   |           | No Mineral staking was proposed in the applied area  |
| 08    | Magazine                                    | 0   | 0   |                                    | 0   |           | Not proposed   |
|       | <b>Total</b>                                | 0   | <b>28.620 ha</b>  |                                    | <b>32.480 ha</b>  |           | -  |



**5.0 TOP SOIL MANAGEMENT:**

No top soil generation is envisaged and hence no storage need.

**6.0 TAILING DAM MANAGEMENT:**

Not applicable

**7.0 DISASTER MANAGEMENT AND RISK ASSESSMENT:**

The area had recently seen a major flood due to the rains. This type of rains was previously ruled out. But now taking such calamities into consideration, the preparedness is given below.

Preparedness to face disaster:

The meteorological department has method of pre-warning on possible heavy rains or floods or cyclones. During any such fore warning all the machinery and persons will be withdrawn and the mining site will be evacuated. In addition to prevent inadvertent entry of persons in to the flooded area where the excavated pits cannot be observed, long poles will be grouted in to the mined out areas before the men and machinery are withdrawn. Additionally warning boards in local language will be displayed in such a manner that they will not be disturbed. If possible the area will be fenced to prevent entry of persons.

However, in case of any eventually the following persons will be available for contact.

**Key Persons:**

M/s Sri Mines,  
Mg.Partner: Sri G. Sri Range Reddy,  
16-10-131,  
Srihari Nagar,  
Opp: Green House Coffee Shop,  
Mini Bye Pass Road,  
Nellore – 524 003.





**8.0 CARE AND MAINTENANCE DURING TEMPORARY DISCOUNTEANCE:**

For the protection of mine and mined – out pits the watchman will be engaged when the mine is temporarily discontinued.

| Item   | Details   | Proposed | Actual | Remarks |
|--|---|----------|--------|---------|
|  | Area afforested(Ha)   | Nil      | Nil    |         |
| <b>Dump Management</b>                               | No. of saplings planted   |          |        |         |
|  | Cumulative no of plants   |          |        |         |
|  | Cost including watch and care during the year                     |          |        |         |
| <b>Management of worked out benches</b>              | Area available for rehabilitation(specify)                        | Nil      | Nil    |         |
|  | No of saplings planted in the year                                |          |        |         |
|  | Cumulative no of plants   |          |        |         |
|  | Any other method of rehabilitation(specify)                       |          |        |         |
|  | Cost including watch and care during the year                     |          |        |         |
| <b>Reclamation and rehabilitation by backfilling</b> | Void available for backfilling (LxBxD) pit wise/stopes wise       | Nil      | Nil    |         |
|  | Void filled by waste /fillings                                    |          |        |         |
|  | Afforestation on the backfilled area                              |          |        |         |
|  | Rehabilitation by making water reservoir any other means(specify) |          |        |         |
| <b>Rehabilitation of waste land within lease</b>     | Area available(Ha)  | Nil      | Nil    |         |
|  | Area Rehabilitation   |          |        |         |
|  | Method of Rehabilitation  |          |        |         |

**9.0 FINANCIAL ASSURANCE**

Financial assurance will be submitted in the form of bank guarantee from a notarized scheduled Bank an amount of Minimum Rupees 50000/-as per Rule 12 (5) (C) of APMCM Rules 1966, for Five years plan period expiring at the end of validity of the document.



**10.0 INFORMATION INDICATING BREAK UP OF AREAS IN THE MINING LEASE FOR CALCULATION OF FINANCIAL ASSURANCE SHALL BE IN THE FORMAT GIVEN BELOW:**

All units are in Hectares

| Sl. No | Type of land use          | During the Plan period | The area considered as fully reclaimed and rehabilitated | Net area considered for calculation |
|--------|---------------------------|------------------------|--|-------------------------------------|
| A      | B                         | C                      | D  | E=C-D                               |
| 1      | Area under Mining         | 26.760                 | 0  | 26.760                              |
| 2      | Storage for top-soil      | 0                      | 0  | 0                                   |
| 3      | OB & Waste Dump           | 0                      | 0  | 0                                   |
| 4      | Mineral storage           | 0                      | 0  | 0                                   |
| 5      | Road area                 | 0                      | 0  | 0                                   |
| 6      | Railway                   | 0                      | 0  | 0                                   |
| 7      | Green belt                | 1.860                  | 0  | 1.860                               |
| 8      | Tailing pond              | 0                      | 0  | 0                                   |
| 9      | Screening & washing plant | 0                      | 0  | 0                                   |
| 10     | Magazine                  | 0                      | 0  | 0                                   |
| 11     | Infrastructure            | 0                      | 0  | 0                                   |
| 12     | Sub-grade storage         | 0                      | 0  | 0                                   |
|        | Total                     | 28.620                 | 0  | 28.620                              |

**Area considered for calculation of Financial Assurance: 28.620 Ha.**

The proposed mining operations for the cost of reclamation and rehabilitation is calculated as per the provisions as per the amended Rule 7 and Rule 12(5)(C) of Mineral Concession Rules, 1966, G.O.Ms. No.53 Dated: 27.02.2019 minimum @ INR 50,000/- for 5.00 Ha and additional INR 10,000.00 per Hectare or part thereof.

This amount works out to be INR 2,90,000/- for 28.620 hectare of area. Hence the financial assurance in the form of Bank Guarantee for the amount INR 2,90,000/- for the above extent will be submitted to the Assistant Director, Department of Mines and Geology, Nellore.



**PLANS AND SECTIONS:**

Plans and sections are enclosed.

**For SRI MINES**

Applicant : *G. Sridhar Reddy*

**Mg Partner**

*[Signature]*  
**P. Viswam**  
RQP/BNG/346/2015/A

Place :

Date:



This Mining Plan is Approved Subject to the conditions stipulations indicated in the Mining plan Approval Letter No. *291/M.P./SS/NLR/2014*  
Date *07/10/14*

Approved  
*[Signature]*  
**B. JAGANNADHA RAO**  
(Approving Authority of Nellore District)  
Deputy Director of Mines & Geology  
SPSR Nellore District



**CERTIFICATE**

This is to certify that the Mining Plan with Progressive Mine Closure Plan comply all statutory rules, regulations, orders made by the Central or State Government, statutory organizations, court etc., have been taken in to consideration and wherever any specific permission is required, the applicant will approach the concerned authorities. The undertaking also given herewith stating that all measures proposed in this Mining Plan with progressive mine closure plan will be implemented in a time bound manner as proposed.

**UNDER TAKING**

It is hereby undertaken that all the measures proposed in this "Mining Plan with Progressive Mine Closure Plan" will be implemented in a time bound manner as proposed.

**For SRI MINES**

G. S. Sanyal Reddy,

**Md. Partner**  
Signature of the applicant

Place:

Date:





# ANNEXURES







खनन योजना तैयार करने के लिए अहर्ता प्राप्त व्यक्ति के रूप में मान्यता

प्रमाण पत्र

CERTIFICATE OF RECOGNITION AS QUALIFIED PERSON TOPREPARE MINING PLAN

( खनिज रियायत नियमावली 1960 के नियम 22सी के अंतर्गत )

(Under Rule 22C of Mineral Concession Rules, 1960)

श्री पूनामल्ली विश्वम पुत्र श्री पी. सुब्बा जेट्टी, निवासी - 13/2, 2<sup>nd</sup> मैन रोड, नांजामाबागारहरा, चामराजपेट, जिला- बेंगलूर, बेंगलूर-560018, राज्य- कर्नाटका, जिनका फोटो एवं हस्ताक्षर दिया गया है उनकी योग्यता तथा अनुभवों के संतोषजनक प्रमाण पत्र देने के एवज में एतद द्वारा खनिज रियायत नियमावली 1960 के नियम 22 सी के अंतर्गत खनन योजना/ खनन अभियोजना/उत्तरोत्तर खान बंद/ अंतिम खान बंद करने की योजना तैयार करने के लिये अहर्ता प्राप्त व्यक्ति के रूप में मान्यता दी जाती है।

Shri Poonamalli Viswam son of P.Subba Jhetty resident of :-13/2, 2<sup>nd</sup> Main road, Nanjamabaagarhara, Chamrajpet, District- Bangalore, Bangalore- 560018, State- Karnataka whose Photograph and Signature is appended herewith having given satisfactory evidence of his qualifications & experience is hereby granted RECOGNITION under Rule 22C of the Mineral Concession Rules,1960 as a Qualified Person to prepare Mining Plan / Scheme of Mining / Progressive Mine Closure Plan / Final Mine closure plan.

उनका पंजीकरण क्रमांक/ His Registration Number is

आर.क्यू.पी./बेंग/346/2015/ए

RQP/BNG/346/2015/A

यह मान्यता दस वर्ष की अवधि के लिए वैध है जो दिनांक 29.03.2025 को समाप्त होगी।

The recognition is valid for a period of Ten Years ending on 29.03.2025.

खनन योजना / खनन अभियोजना / उत्तरोत्तर खान बंद / अंतिम खान बंद करने की योजना में यदि कोई गलत/झूठ सूचनाएँ दी गई हो तो उनका यह प्रमाण पत्र वापस ले लिया जाएगा।

Furnishing any wrong/false information in the Mining Plan/Scheme of Mining / PMCP / FMCP may lead to withdrawal of this certificate.

आर.क्यू. पी. के हस्ताक्षर / Signature of RQP



स्थान/Place: बेंगलूर/Bangalore

दिनांक/Date: 30.03.2015

30/03/15  
क्षेत्रीय खान नियंत्रक/

Regional Controller Of Mines

Regional Controller of Mines

Indian Bureau of Mines

4001 Bangalore-560022



File No.EFS02-15029/15/2018-FCA SEC-PCCF

**GOVERNMENT OF ANDHRA PRADESH  
FOREST DEPARTMENT**

Ref.no.EFS02-  
15029/15/2019-FCA SEC-  
PCCF/FCA-2,  
Dated: 31/01/2021

Office of the Prl. Chief Conservator of Forests &  
Head of Forest Force, Andhra Pradesh,  
Nagarampalem, Guntur - 522004.

**Sri N. Prateep Kumar, IFS.,  
Prl. Chief Conservator of Forests &  
Head of Forest Force**

••(308)••

Sub:APFD - F (C) Act, 1980 - Proposal for diversion of 32.48 ha. of forest land  
- in compartment no.91 of Momidi RF, Chillakur (M) SPSR Nellore District for  
grant of quarry lease for silica sand in favour of M/s. Sri Mines (Sri G.Sri  
Ranga Reddy, Mg.Partner) -Request to furnish approved mining plan-  
Reg.

Ref: 1. Online Proposal no. FP/AP/QR/46915/2020, dated: 06.07.2020.  
- 2. PCCF & HoFF, A.P., Guntur Rc. no. EFS02-15029/15/2019-FCA SEC-  
PCCF/FCA-2, dated: 25.10.2020.

It is informed that the proposal uploaded in the Ministry's web portal in  
the reference 1<sup>st</sup> cited in connection with diversion of 32.48 ha. of forest land in  
compartment no.91 of Momidi RF, Chillakur (M) SPSR Nellore District for grant of  
quarry lease for silica sand in favour of M/s. Sri Mines (Sri G.Sri Ranga Reddy,  
Mg.Partner) has been verified.

In this connection, the user agency i.e. M/s. Sri Mines (Sri G.Sri Ranga  
Reddy, Mg.Partner) is requested to submit approved mining plan of the subject  
proposal for taking further action in the matter.

**N Prateep Kumar  
Prl. Chief Conservator of Forests &  
Head of Forest Force**

To

M/s. Sri Mines (Sri G.Sri Ranga Reddy, Mg.Partner), 16-10-131, Srihari Nagar,  
Opp:Green House Coffee Shop, Mini Bye Pass Road, Nellore-524 003.

Copy to the Divisional Forest Officer, SPSR Nellore for information  
Copy to the Conservator of Forests, Guntur for information.

Copy to the Director of Mines and Geology, Ibrahimpatnam, Vijayawada for  
information and necessary action.

Signed by N Prateep Kumar  
dt: 31-01-2021 09.22.02  
Reason: Approved



GOVERNEMENT OF ANDHRA PRADESH  
DEPARTMENT OF MINES AND GEOLOGY :: IBRAHIMPATNAM

Circular Memo No.3861432/P/2020

Dated:16.07.2021.

Sub: Mines & Minerals - Granting of Mining Leases/Prospecting  
Licence/Quarry Leases in Forest Lands - Instructions Issued -  
Regarding.

- Ref: 1. Memo. No. 3778/For(1)20001-1, Dt. 20.04.2001 from  
Environment, Forest, Science & Technology (For.1) Department.  
2. Memo. No. 5624/For.(1)/2005-2, Dt. 1.09.2005 from  
Environment, Forest, Science & Technology Department.  
3. Circular Memo.No.10205/P1/2001, Dt. 29.05.2009. from Director  
of Mines & Geology, Hyderabad.  
4. Circular Memo.No.10205/P1/01, Dt. 16.09.2009. from Director of  
Mines & Geology, Hyderabad.  
5. Ref.No.EFS02-15029/94/2018-FCA-SEC-PCCF/FCA-, Dt.13.07.2021.  
from Principal Chief Conservator of Forest & Head of Forest Force,  
Guntur.

\*\*\*\*\*

The attention of the all Assistant Directors and Deputy Directors of Mines & Geology in the state are drawn to the subject and references cited. Through the reference 4<sup>th</sup> cited Director of Mines & Geology issued Guidelines for processing of ML/QL applications for clearances under forest Conservation Act 1980, to avoid legal complications in future.

In the reference 5<sup>th</sup> cited, the Principal Chief Conservator of Forest & Head of Forests, Andhra Pradesh stated that during the virtual meeting held with GoI, MoEF & CC, New Delhi on 08.07.2021 while receiving the proposals of the some of applications for which this office forwarded to PCCF for grant of Quarry lease in forest areas, they suggested the authenticated DGPS surveyed sketch of proposed forest area with Geo-coordinates duly indicating land use plan for mining, safety zone, approach road in respect of the four mining proposals, and necessary instruction are being issued to the above User Agencies to furnish the Draft Mining plan based on the above precise area arrived after conducting DGPS survey, to the Director of Mines & Geology, Andhra Pradesh., Ibrahimpatnam for necessary action. Further also informed that the DM&G, AP/the representative authorized by him, may approach the concerned Divisional Forest Officers for entry into Forests to inspect the precise forest area proposed for mining purpose, and finally requested to submit AMP of the said mining proposals as stated below:

1. Grant of quarry lease over an extent of 4.78 ha. Of forest land in compartment no.127, Kondaveedu RF, Ameenabad beat, Perecherla (V), Medikondur Mandal, Guntur for Road Metal & Building Stone in favour of Kunambrahmananda Redd, Ongole, Prakasam District.
2. Grant of quarry lease over an extent of 4.49 ha. Of forest land in compartment no.127, Kondaveedu RF, Ameenabad beat, Perecherla(V), Medikondur Mandal, Guntur for Road Metal & Building Stone in favour of Sri Dar Appa Rao, West Godavari District.
3. Diversion of forest land over an extent of 4.72 ha. In compartment no.450 of Yerrakonda R, Tummagunta Village, Kanigiri Mandal, Prakasam District for excavation of Quartz in favour of M/s AhobilaNarasimha Minerals.



4. Diversion of 4.90 ha. Of forest land falling in compartment no.205 of Ragimanupenta RF, Banagarupalyam (M), Chittoor (West) Division in f/o M/s Prathima Granites for grant of quarry lease for Black Granite.

In this connection it is to inform that, as per the existing provisions laid down under APMMC Rules 1966 the AMP shall allowed only after issue of Notice (LOI) to the applicant. But as per the present instructions received from the PCCF vide reference 5<sup>th</sup> cited, in the cases, where the M.C. Applications falls in forest area, the proposal shall submit along with AMP duly following the instructions issued in the references 3<sup>rd</sup> & 4<sup>th</sup> cited.

Therefore the ADM&G's and DDM&G's in the state are directed while processing mineral concession applications falling in the forest area, proposals shall submit to the DM&G along with the AMP and strictly adhering the instructions issued earlier and approach with the concerned DFO to process the Mineral concession applications as the procedure intimated by the PCCF if necessary.

Further the DDM&G's in the state are directed to consider the AMP for approval of the forest area applications in advance without issuing of Notice to the applicants requesting to submit AMP, EC & CFE.

Encl: References as stated above.

Sd/- V.G.Venkata Reddy  
Director of Mines & Geology

To

The all ADM&G's (Regular) in the State.

The all DDM&G's in the State.

Copy to the Section Superintendents from D1 to D13 / In- charge officers of sections Sand, Vigilance, IT, MR, MERIT,  
Copy to DM&G pashi.

Copy submitted to the Principal Chief Conservator of Forest & Head of Forest Force, AranyaBhavan, Andhra Pradesh, K.M. Munshi Road, Guntur-522004, with a request to issue suitable instructions to DFO's in the State for allow if the Mines & Geology Officials and user Agencies to inspect and preparing of AMP in the forest areas.

//Attested//

G. Sanku Babu.

Assistant Director of Mines & Geology





ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

26/02/2017 22.02.2017

SRI Mines Rcp. by its Mg. Partner Gajjala Sriranga Reddy  
Sd/- S/o Ravi Kumar Reddy Nellore

BY 747932  
L.No. 09-01/06/2011  
R.L. No. 09-01/01/2017-2  
Mili Street, CHENNAI  
Gudur (A) SPSR Nellore

### PARTNERSHIP DEED

This deed of Partnership is executed on the 22<sup>nd</sup> day of FEBRUARY, 2017 between:-

1. GAJJALA SRIRANGA REDDY, Son of RAVI KUMAR REDDY, Hindu, aged about 32 years, residing at 16-10-131, Srihari Nagar, Nellore, SPSR Nellore District, Andhra Pradesh.
2. GAJJALA INDIRAMMA, Wife of RAVI KUMAR REDDY, Hindu, aged about 56 years, residing at 16-10-131, Srihari Nagar, Nellore, SPSR Nellore District, Andhra Pradesh.

Hereinafter called the 1<sup>st</sup> and 2<sup>nd</sup> parties, i.e., GAJJALA SRIRANGA REDDY and GAJJALA INDIRAMMA respectively, which terms wherever they occur in this document shall mean and include their heirs, legal representatives, executors, administrators and assigns.

1 G. Sriranga Reddy

2 G. Indiramma





ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

267 22-02-2017 Rs. 100/  
SRI mines Rep. by its Mg. Partner Gajjala sriranga Reddy  
SCN s/o Ravi Kumar Reddy Nellore

A. Girdi  
BV 747933  
L.N. 08-01-01-01  
R.L. No. 00-01-01-01  
Mita Street, G. S. Nellore  
Gudur (M) SPSK Nellore

Whereas the First and Second Parties namely GAJJALA SRIRANGA REDDY, Son of RAVI KUMAR REDDY and GAJJALA INDIRAMMA, Wife of RAVI KUMAR REDDY will carry the business of Processing purchase and sales in Silica Sand, Quartz, Feldspar, Mica and Mineral Powders and also to carry on any other businesses or businesses as mutual decided between themselves.

Whereas the parties hereto have agreed to carry on the business in Partnership between themselves with effect from this date and whereas the parties hereto have thought it fit, expedient and advantageous to reduce to writing the several terms and conditions governing the said Partnership business into writing.

NOW THIS DEED OF PARTNERSHIP WITNESSETH AS FOLLOWS:

1. That the partnership business shall continue to be carried on under the name and style of SRI MINES, situated at 16-10-131, Srihari Nagar, Nellore, SPSR Nellore District, Andhra Pradesh.
2. That this partnership has commenced from 22-02-2017 and the duration of the partnership shall be terminable AT WILL.
3. That necessary capital shall be contributed by the parties hereto as and when required and such capital shall carry interest @12% per annum.

1 G. Sriranga Reddy.

2 G. Indiraamma





ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

268 22.02.2017 Rs. 100/ SRI Mines Rep. by its Mg. Partner Gajjala Sriranga Reddy  
S/o Ravi Kumar Reddy Nellore

A. Giris  
BV 747934  
L.No. 68-04-01/2017  
R.L. No. 68-04-01/2017-2019  
Mill Street, CHENNAI (V)  
Gudur (M) SPSR Nellore Dist

4. That the business of the partnership shall be relating to business in processing purchase and sales of Silica Sand, Quartz, Feldspar, Mica and Mineral Powders. This partnership is at liberty to carry on any other type of businesses as and when decided by the parties hereto.
5. That the business of partnership shall be managed by the First Party, hereto i.e., GAJJALA SRIRANGA REDDY and he shall be called as a Managing Partner. The second party, hereto i.e., GAJJALA INDIRA MMA and She shall be called as a working partner. The Managing partner has the power to sign bills, vouchers, letters of correspondence and all kinds of negotiable and transferable instruments and to appoint, remove, suspend, dismiss staff and to fix their remuneration, bonus or allowances, if any individually.
6. The Second Partner is the working partner. They shall be paid equal remuneration per annum each on the book profits of the firm and for the purpose of remuneration, the book profits shall be computed under section 40(B)(V) of the Income Tax Act, 1961.

1 G. Sri Ranga Reddy.

2 G. Indira mma

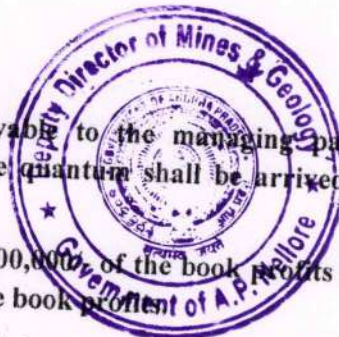




ఆంధ్రప్రదేశ్ రాష్ట్రం ANDHRA PRADESH

269 22-02-2017 P. 1007  
SRI Mines Rep. by its Mg. Partner Gajjala Sriranga Reddy  
S/o Ravi Kumar Reddy Nelbore

A - G. 115 4  
BY 747935  
L. 115 4 - 2017/211  
R. 115 4 - 2017/211  
M. 115 4 - 2017/211  
G. 115 4 - 2017/211



7. The total remuneration payable to the managing partner and the working partner shall be equal to the quantum shall be arrived at on the book profits computed as under :
  - a) On the first Rs. 3,00,000 of the book profits in the case of law at the rate of 90% of the book profits
  - b) On the balance of the book profits at the rate of 60% of the book profits.
8. That if at any time, any further amounts are needed for the advancement of the business, the promissory note, bond or any other instrument executed in this regard in favour of the creditors, whether individuals, bank or any institution shall be signed by both the parties. The credits that are brought into the accounts shall be binding on the both also.
9. That this partnership can open an account or accounts with any bank or banks whenever necessary and such account or accounts shall be operated by the parties i.e., GAJJALA SRIRANGA REDDY under the seal of the firm Individually .

1. G. Sriranga Reddy

2. G. Indiraamma





ఆంధ్ర ప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

270 22.02.2017 Rs. 100/  
SRI Mines Rep. by its mg-partner Gajjala Sriiranga Reddy  
SL 3/0 Ravi Kumar Reddy Nellore

A. Gurin  
BV 747936

10. That the accounts of the partnership shall be maintained or caused to be maintained in the day-to-day course of the business by the partners. That the accounts of the partnership shall be closed on the 31<sup>st</sup> day of March every year.

11. That the Net Profits or losses shall be shared or borne by the parties hereto in the following proportion :

GAJJALA SRIRANGA REDDY 1<sup>st</sup> Party 25%

GAJJALA INDIRAMMA 2<sup>nd</sup> Party 75%  
100%

12. That this partnership shall not be liable for the individual debts of the parties hereto.

1. G. Sriiranga Reddy.

2. G. Indiramma



13. That if any partners hereto want to retire from this partnership, such retiring partner shall give 3 months notice of his desire to retire from this partnership. Upon such an event, the account of retiring partner shall be adjusted to profit or loss up to the date of retirement and the same shall be paid within 3 months from the date of retirement without interest and such retiring partner shall not be entitled for any share in the goodwill of the partnership business.
14. Any of the terms and conditions stipulated herein may be altered, deleted or supplemented by writing suitable supplementary deed or deeds which shall form a part and parcel of this deed.
15. No partner can assign, mortgage, transfer or change his/her share in the partnership business to any other persons.
16. That any dispute with regard to this partnership shall be referred to an arbitrator or arbitrators for settlement.
17. That in all other respects, the business of the partnership shall be carried on in accordance with the provisions of the Indian Partnership Act, 1932, as amended up to date wherever necessary, as if they have been incorporated in this document to form part and parcel thereof.

IN WITNESS WHEREOF ALL THE PARTNERS HERE TO HAVE SET THEIR HANDS AND SIGNATURES ON THE DAY THE MONTH AND THE YEAR FIRST ABOVE WRITTEN

WITNESSES:

1. P. Janard

2. S. Srinivasulu.

SIGNATURE OF THE PARTNERS:

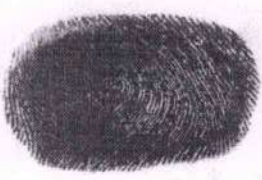



G. Sridanga Reddy

2. G. Indiramma





**PHOTOGRAPHS AND FINGER PRINTS AS PER  
SECTION 32A OF REGISTER ACT, 1908**

| S.No | FINGER PRINT<br>IN BLACK INK<br>(LEFT HAND)  | PASSPORT SIZE<br>PHOTOGRAPH   | NAME & PERMANENT POSTAL<br>ADDRESS OF PRESENTANT/  |
|------|--|---|--|
| 1    | <p>G. Sairanga Reddy</p>  |    | <p>GAJJALA SRIRANGA REDDY, Son of<br/>RAVI KUMAR REDDY, Hindu, aged<br/>about 32 years, residing at 16-10-131,<br/>Srihari Nagar, Nelllore, SPSR Nellore<br/>District, Andhra Pradesh. hereinafter<br/>called the 1<sup>st</sup> party</p> |
| 2    | <p>G. Indiramma</p>     |  | <p>GAJJALA INDIRAMMA, Wife of RAVI<br/>KUMAR REDDY, Hindu, aged about 56<br/>years, residing at 16-10-131, Srihari<br/>Nagar, Nelllore, SPSR Nellore District,<br/>Andhra Pradesh. hereinafter called the 2<sup>nd</sup><br/>party.</p>    |

**WITNESSES:**

**SIGNATURE OF THE PARTNERS:**

1. P. Janardhan

1. G. Sairanga Reddy.

2. S. Srinivasulu.

2. G. Indiramma





558/105-2017  
ఆంధ్ర ప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH  
SRI MINES Rep by H/ my partner Gajjala Sairanga Reddy  
S/o Ravi Kumar Reddy, Nellore.

51AA 035851  
RL No. 03-14-0000017  
15/225, Vengal Rao St, P  
EAST GUDUR, SPSR Nellore  
Cell: 9399427787

### FREE OF RENT AFFIDAVIT

I, Gajjala Indiramma W/o Gajjala Ravikumar Reddy, aged about 56 years, residing at D.No. 16-10-131, Srihari Nagar, Nellore, SPSR Nellore District, Andhra Pradesh, do hereby solemnly affirm and started as follows

1. I am the deponent herein,
2. I state that I got House at D.No. 16-10-131, Srihari Nagar, Nellore, SPSR Nellore District, Andhra Pradesh, ( Assessment No. 1031036880). That I rented out my house to "SRI MINES" for free of Rent . That I am the Working Partner of "SRI MINES"

G. Indiramma  
Deponent

Solemnly affirm and executed before me on this 1<sup>st</sup> day of May . 2017



NOTARY  
APPOINTED BY GOVT OF A.P. INDI  
N. ADIKESU  
B.A.B.L.  
ADVOCATE & NOTARY  
Regd. No. 1254/2011  
15/22, RANIPET, GUDUR,  
SPSR NELLORE DT



ಪಾಠಕರು : ಶ್ರೀ D.V.T.S.R. Choudhary

-0-0-0-

தேதி: 9.7.2020

సూచిక:- తది: గల శ్రీశ్రీమతె ది. విందిరన్న  
బి. రవి కుమారరాజ్ దరఖాస్తు.

-0-0-0-

శ్రీ/శ్రీమతి ..... గృ. బిండి రవ్వ

పార్థు నెం: 1664 464... విధి పూర్వబాంధవల మిశ్నానెడ్డి వగర, ముఖ్యమంత్రి  
గారికి వెర్మిలామునకు జతపరచిన స్థాను ప్రకారము ఈ క్రింది పరస్పరపై భినుమతి యివ్వబడినది.

- కొరప..... పేజీ.....





కమిషనరు కరవున 9/10/23  
సాగుపాలక సంస్థ :: నెల్లూరు

9/17/09

ಕ್ರ. / ಪ್ರಮತ ..... ಗ್ರ. ಪಿಂಚಿನಮ್ಮ  
ಬಳಿ. ಕೂಟಕವೊಕ್ಕರೆಡ್ಡೆ  
ಸಾ.ಪಂ. 1679. 464  
ಶಾ.ಪಂ. 24.  
C.A.S. ಸಂ. 6.24, 625, 626/2  
ನಲ್ಲಾರು. ಮುದ್ದಾನಿ ಈತನ

నకలు: టీ.పి. & బి.ఓ. గారికి





భారత ప్రభుత్వం

**భారత ప్రభుత్వం**  
**Unique Identification Authority of India**  
**Government of India**

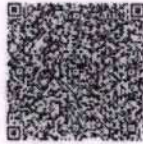
సమాచార సంఖ్య / Enrollment No. : 2017/60148/05779

To  
Gajjala Sriranga Reddy  
గజ్జల శ్రీరంగారెడ్డి  
S/O. Ravi Kumar Reddy  
16-10-131  
srihari Nagar  
nellore  
Nellore  
Dargamitta, Nellore  
Andhra Pradesh - 524003  
9966000006



KL120317943DF

12031794



మీ ఆధార్ సంఖ్య / Your Aadhaar No. :

**2102 6314 2027**

ఆధార్ - సామాన్యని హక్కు



భారత ప్రభుత్వం  
GOVERNMENT OF INDIA



గజ్జల శ్రీరంగారెడ్డి  
Gajjala Sriranga Reddy

పుట్టిన సంవత్సరం / Year of Birth: 1985  
పురుషుడు / Male

**2102 6314 2027**

ఆధార్ - సామాన్యని హక్కు



Government of India



సమాచారం

- ఆధార్ గుర్తింపుకు ధృవీకరణ, పౌరసత్వానికి కాదు.
- గుర్తింపుకు ధృవీకరణ అన్లైన్ ఆధారితకేసుస్ ద్వారా పొందవచ్చు.

### INFORMATION

- Aadhaar is proof of identity, not of citizenship.
- To establish identity, authenticate online.

- ఆధార్ దేశమంతటా అమోదించబడుతుంది.
- ఆధార్ భవిష్యత్తులో ప్రభుత్వ మరియు ప్రభుత్వేతర సేవలు అందజేయడంలో సహాయపడుతుంది.
- Aadhaar is valid throughout the country.
- Aadhaar will be helpful in availing Government and Non-Government services in future.



భారత ప్రభుత్వం  
UNIQUE IDENTIFICATION AUTHORITY OF INDIA

గజ్జల శ్రీరంగారెడ్డి  
S/O. రవి కుమార్ రెడ్డి  
16-10-131, శ్రీహరి నగర్, నెల్లూరు  
దర్గామిట్ట, నెల్లూరు  
ఆంధ్రప్రదేశ్ - 524003

Address: S/O: Ravi Kumar  
Reddy, 16-10-131, Srihari  
Nagar, Nellore, Nellore,  
Dargamitta, Andhra Pradesh,  
524003

1947  
1800 180 1947

help @ uidai.gov.in

www.uidai.gov.in

హెల్ప్ లైన్: 1800 180 1947,  
మొదలైనది-548881

NOTARY  
APPOINTED BY GOVT OF A.P. INDL  
N. ADISESHU

B.A.B.L  
ADVOCATE & NOTARY  
Regd. No. 1254/2011  
15/22, RANIPET, GUDUR,  
S.P.G.R. NELLORE DT.





భారత ప్రభుత్వం  
Unique Identification Authority of India  
Government of India

సమాచార సంఖ్య / Enrollment No. : 2017/60148/05780

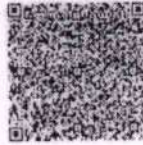
To  
Gajjala Indiramma  
గజ్జల ఇందిరమ్మ  
W/O Ravi Kumar Reddy  
16-10-131  
srihari Nagar  
nellore  
Nellore  
Dargamitta, Nellore  
Andhra Pradesh - 524003  
9966492627

23/01/2013



KL120318396DF

12031839



మీ ఆధార్ సంఖ్య / Your Aadhaar No. :

**2197 2884 9129**

ఆధార్ - సామాన్యని హక్కు



భారత ప్రభుత్వం  
GOVERNMENT OF INDIA



గజ్జల ఇందిరమ్మ  
Gajjala Indiramma

పుట్టిన సంవత్సరం/Year of Birth: 1961  
క్రీ : Female

**2197 2884 9129**



ఆధార్ - సామాన్యని హక్కు



Government of India



సమాచారం

- ఆధార్ గుర్తింపుకు ధృవీకరణ. పౌరసత్వానికి కాదు.
- గుర్తింపుకు ధృవీకరణ ఆన్లైన్ అథెంటికేషన్ ద్వారా పొందవచ్చు.

### INFORMATION

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- ఆధార్ దేశమంతటా అమోదించబడుతుంది.
- ఆధార్ భవిష్యత్తులో ప్రభుత్వ మరియు ప్రభుత్వేతర సేవలు అందచేయడంలో సహాయపడుతుంది.
- Aadhaar is valid throughout the country.
- Aadhaar will be helpful in availing Government and Non-Government services in future.



భారత విశిష్ట గుర్తింపు ప్రాధికార సంస్థ  
UNIQUE IDENTIFICATION AUTHORITY OF INDIA

Address: W/O. Ravi Kumar Reddy, 16-10-131, Srihari Nagar, Nellore, Nellore, Dargamitta, Andhra Pradesh, 524003

1947  
1800 180 1947

help@uidai.gov.in

www.uidai.gov.in

1.800 180 1947  
మొదటిసారి - 566001

NOTARY  
POINTED BY GOVT OF A.P. INDIA  
N. ADISESHU

B.A.B.L  
ADVOCATE & NOTARY  
Regd. No. 1254/2011  
15/22, RANIPET, GUDUR,  
S.P.6.R. NELLORE DT.



आयकर विभाग  
INCOME TAX DEPARTMENT

भारत सरकार  
GOVT. OF INDIA



नाम / Name  
SRI MINES

स्थायी लेखा संख्या कार्ड  
Permanent Account Number Card

ADGFS8377R



निगमन/गठन की तारीख  
Date of Incorporation / Formation  
22/02/2017

13032017

यह कार्ड केवल / एनएसएन कार्ड केवल / केवल  
आयकर विभाग के कार्ड केवल / एनएसएन केवल  
यह कार्ड केवल / एनएसएन केवल / केवल  
यह कार्ड केवल / एनएसएन केवल / केवल

If this card is lost / someone's lost card is found,  
please inform / return to:  
Income Tax PAN Services Unit, NSDL,  
5th floor, Mantra Sterling,  
Plot No. 341, Survey No. 997/8,  
Model Colony, Near Deep Bangalow Chowk,  
Pune - 411 016.

Tel: 91-20-2721 8080, Fax: 91-20-2721 8081  
e-mail: [tininfo@nsdl.co.in](mailto:tininfo@nsdl.co.in)



NOTARY  
BY GOVT OF A.P. INDIA  
ADISESHU  
BA BL  
NOTARY  
No. 1254/2011  
NIPET, GUDUR,  
NELLORE DT



INCOME TAX DEPARTMENT

GAJJALA SRIRANGA REDDY

RAVIKUMAR REDDY GAJJALA

22/01/1985

APDPG0804J

G. S. Thompson Recently

**Keywords:** child sexual abuse; disclosure; legal system

भारत सरकार  
GOVT. OF INDIA



1. 2019년 12월 31일 현재 보유 중인 자산의 총액  
 2. 2019년 12월 31일 현재 보유 중인 부채의 총액  
 3. 2019년 12월 31일 현재 보유 중인 자본의 총액  
 4. 2019년 12월 31일 현재 보유 중인 수익의 총액  
 5. 2019년 12월 31일 현재 보유 중인 손실의 총액

If  $(h_1, \dots, h_n) \in \mathcal{H}_1 \times \dots \times \mathcal{H}_n$  is a  $\mathcal{H}_1 \times \dots \times \mathcal{H}_n$ -valued function, then

Income tax PAK (net) (total) (USD)

1st Floor, Times Tower  
Kowloon, Kowloon, Hong Kong

Kanana Mills Compound,  
S. H. Marg, Lower Parel, Mumbai 400 013

Tel: 91-22-2499 4650, Fax: 91-22-2495 0664  
e-mail: [business@nadi.co.in](mailto:business@nadi.co.in)



NOTARY  
APPOINTED BY GOVT OF A.P. INDIA  
N. ADISESHU  
B.A.B.L.  
ADVOCATE & NOTARY  
Regd. No. 1234/2011  
15/22, RAMPET, GUDUR,  
S.P.S.R. NELLORE DT



आयकर विभाग

INCOME TAX DEPARTMENT

GAJJALA INDIRAMMA

VENKATA REDDY DUVVURU

22/03/1961

Permanent Account Number

ARMPG5445N

G. Indiramma  
Signature



भारत सरकार

GOVT. OF INDIA



इस कार्ड के खोने / चले पर कृपया सूचित करें  
आयकर वेन सेवा इकाई, एन एस डी यू  
तीसरी मंजिल, सरकार चेंबर,  
बानेर टेलिफोन एक्चेंज के मजदूरी,  
बानेर, पुणे - 411 045

If this card is lost / someone's lost card is found,  
Please inform / return to :

Income Tax PAN Services Unit, NSDL,  
3rd Floor, Sapphire Chambers,  
Near Baner Telephone Exchange,  
Baner, Pune - 411 045

Tel: 91-20-2721 8081 Fax: 91-20-2721 8081  
e-mail: [income@nsdl.co.in](mailto:income@nsdl.co.in)



NOTARY  
APPOINTED BY GOVT OF A.P. INDIA  
N. ADISESHU

BA BL  
ADVOCATE & NOTARY  
Regd. No. 1254/2011  
15/22, RANIPET, GUDUR,  
S.P.6 R. NELLORE DT

From

SRI MINES

Hg. Pawar - G. Rangareddy

16-10-131 Srihari Nagar  
Nellore.



To

The Registrar

Firm Registration

Nellore

Sir,

Sub :- Firm registration.

We are enclosing herewith Form 1, Deed copy  
Aadhar cards, Firm pass and doc. For Registration.

Thanking you G. Sri Ranga Reddy  
Yours faithfully,







**GOVERNMENT OF ANDHRA PRADESH**

AP113049640 6

**REGISTRATION AND STAMPS DEPARTMENT**

**THE REGISTRAR OF FIRMS**

**Nellore**

## **Acknowledgement of Registration of Firm**

- The Registrar of Firms, Nellore hereby acknowledges the receipt of the statement prescribed by section 58(1) of the Indian Partnership Act. 1932.
- The statement has been filed and the name of the firm SRI MINES , has been entered in the Register of Firms as No. [No : 181 of 2017] at Nellore.



Nellore



**REGISTRAR OF FIRMS**

Date: 03 May 2017

Signature valid

Digitally signed  
by Maddy  
Abraham  
Date: 2017.05.03  
17:20:58 IST

## GOVERNMENT OF ANDHRA PRADESH

|                |                     |
|----------------|---------------------|
| Form-1 English | FORM-1.pdf          |
| Partnership    | PARTNERSHIPDEED.pdf |
| Affidavit      | AFFIDAVIT.pdf       |
| Self signed    | DECLARATION.pdf     |

✓  
MEE SEVA (FN22)  
Opp. Bollineni Hospital,  
Dargamitta, Nellore.





# GOVERNMENT OF ANDHRA PRADESH

## FORM - A

### SEE RULE - 5

(Maintained Under Section 59 of the Indian Partnership Act, 1932)

|                            |                    |
|----------------------------|--------------------|
| 1. Serial Number of Firm : | [No : 181 of 2017] |
| 2. Name of the Firm :      | SRI MINES          |
| 3. Duration of Firm From : | 22/02/2017         |
| 4. Duration of Firm To:    | At Will            |

Principal Place of Business for the Firm

16-10-131,Srihari Nagar/ Nellore/ Nellore/ Nellore/ Andhra Pradesh/ India/

### Partner Details for the Firm

| Name                      | Address   | Joining Date |
|---------------------------|---|--------------|
| SRIRANGA REDDY<br>GAJJALA | 16-10-131,Srihari Nagar/ Nellore/ Nellore/ Nellore/<br>Andhra Pradesh/ India/ | 22/02/2017   |
| INDIRAMMA GAJJALA         | 16-10-131,Srihari Nagar/ Nellore/ Nellore/ Nellore/<br>Andhra Pradesh/ India/ | 22/02/2017   |

### Document Details

| Document Type | Document Name |
|---------------|---------------|
|---------------|---------------|

# FORM NO. 1

[See rule 3]

Filing Fee Rs.


THE INDIAN PARTNERSHIP ACT, 1932

APPLICATION FOR REGISTRATION OF FIRM BY THE NAME, SRI MINES  
No. 16-10-131 Nellore Nellore Dist

Presented or forwarded to the Registrar of Firms for filing by,

We, the undersigned, being the partners of the firm, Sri Mines Reg. Partnrs Sri Gajjala  
Ranga Reddy Nellore

hereby apply for the registration of the said firm and for that purpose supply the following particulars, in pursuance to section 58 of the Indian Partnership Act, 1932: —

|  |   |
|--|---|
| (i) The firm's name, <u>SRI MINES</u>                | (a) Principal Places,<br><u>16-10-131 SRI HARI NAGAR</u><br><u>NELLORE</u>          |
| (ii) Place of business                               | (b) Other Places,<br><u>- NIL -</u>   |
| (iii) (a) Name of the partners in full               |   |
| (c) Permanent address in full                        |   |
| 1 <u>GAJJALA SRI RANGA</u>                           | <u>16-10-131</u><br><u>Sri Hari Nagar Nellore</u><br><u>Nellore Dist</u>            |
| (b) Date of Joining of the firm<br><u>22-02-2017</u> |  |
| 2 <u>GAJJALA INDIRAMMA</u>                           |   |
| (b) Date of Joining of the firm<br><u>22-02-2017</u> |   |
| (b) Date of Joining of the firm                      |   |
| (b) Date of Joining of the firm                      |   |
| (b) Date of Joining of the firm                      |   |
| (b) Date of Joining of the firm                      |   |
| (b) Date of Joining of the firm                      |   |



| (iii) (a) Name of the partners in full | (c) Permanent address in full |
|--|-------------------------------|
| 6                                      |                               |
| (b) Date of Joining of the firm        |                               |
| 7                                      |                               |
| (b) Date of Joining of the firm        |                               |
| 8                                      |                               |
| (b) Date of Joining of the firm        |                               |
| 9                                      |                               |
| (b) Date of Joining of the firm        |                               |
| 10                                     |                               |
| (b) Date of Joining of the firm        |                               |
| (iv) Duration of the firm              | At will                       |



NOTARY G. Sridhara Reddy  
 APPOINTED BY GOVT OF A.P. INDIA  
 N. ADISESHU  
 B.A. B.L.  
 2. G. Induramma

(vi) DATE \_\_\_\_\_  
 ADVOCATE & NOTARY  
 Regd. No. 1254/2011  
 15/22, RANIPET, GUDUR.

- 1 This form must be signed by all partners or their specially authorised agents in their behalf in the presence of a witness who must be either a Gazetted Officer, Advocate, Attorney, Vakill, Honorary Magistrate, Chartered Accountant or Income-tax Practitioner. It is not necessary that all the partners should sign in the presence of one and the same witness. If this form is signed by a partner outside India, such witness must be a Notary Public, Judge, Magistrate or Advocate or other person authorised to practise as a legal practitioner in the court of law of the country where the form is signed.
- 2 Here enter name of firm.
- 3 Here enter name and full address of the person presenting or forwarding the application.



I, Gajjala Sri Ranga Reddy  
son of Ravi Kumar Reddy

32 years of age, of Indian Hindu

above statement is true and correct to the best of my knowledge and belief. religion, do hereby declare that the

DATE:

WITNESS:

Signature with name, designation and full permanent address  
(IN BLOCK LETTERS)

NOTARY  
APPOINTED BY GOVT OF A.P. IN DL  
N. ADISESHU

BA BL  
ADVOCATE & NOTARY  
Regd. No. 1254/2011

15/22, RANIPET, GUDUR,  
SPSR NELLORE DT

G. Sri Ranga Reddy  
Signature

I, Gajjala Indiramma

son of wife Ravi Kumar Reddy

56 years of age, of Indian Hindu

above statement is true and correct to the best of my knowledge and belief. religion, do hereby declare that the

DATE:

WITNESS:

Signature with name, designation and full permanent address  
(IN BLOCK LETTERS)

APPOINTED BY GOVT OF A.P. IN DL  
N. ADISESHU

BA BL  
ADVOCATE & NOTARY  
No. 1254/2011

GUDUR, 2  
SPSR NELLORE DT

G. Indiramma  
Signature

I, \_\_\_\_\_

son of \_\_\_\_\_

\_\_\_\_\_ years of age, of \_\_\_\_\_

above statement is true and correct to the best of my knowledge and belief. religion, do hereby declare that the

DATE:

WITNESS:

Signature with name, designation and full permanent address  
(IN BLOCK LETTERS)



Signature

I, \_\_\_\_\_

son of \_\_\_\_\_

\_\_\_\_\_ years of age, of \_\_\_\_\_

above statement is true and correct to the best of my knowledge and belief. religion, do hereby declare that the

DATE:

WITNESS:

Signature with name, designation and full permanent address  
(IN BLOCK LETTERS)

Signature

I, \_\_\_\_\_

son of \_\_\_\_\_

\_\_\_\_\_ years of age, of \_\_\_\_\_

above statement is true and correct to the best of my knowledge and belief. religion, do hereby declare that the

DATE:

WITNESS:



# PLATES





anoosrimms@gmail.com

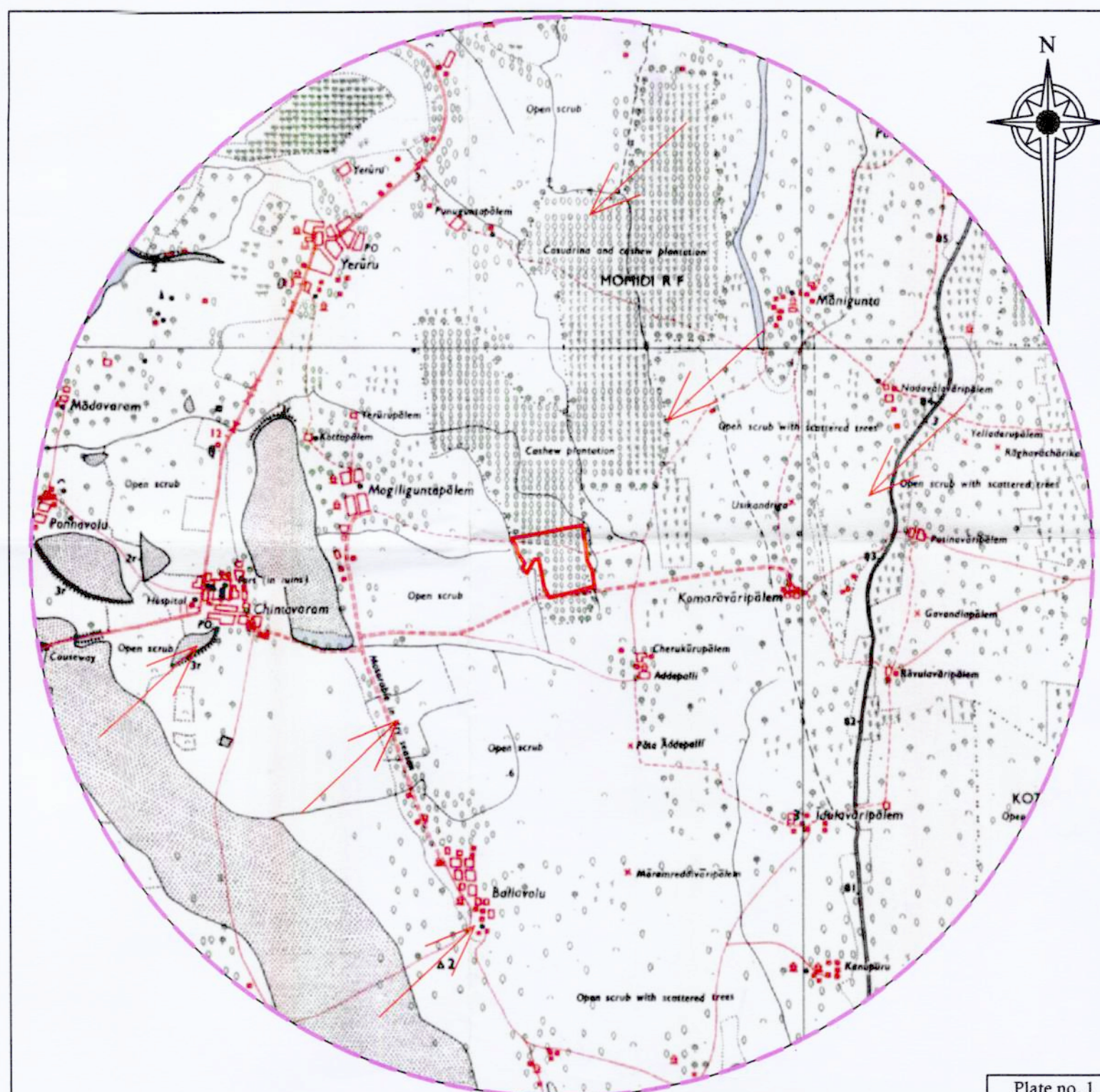
Sydapuram (V), (PO) & (M)-524407  
SPSR Nellore Dist., Andhra Pradesh.

**ANOOSRI MINING SOLUTIONS**



Prepared by:





**Datum Based on WGS - 84**

Geo Co-ordinates Latitude : N14.14758716  
Longitude : E80.06039288

## INDEX

- Applied Area
- 5 Km Radius Line
- 38° Villages
- Water Source
- B.T Road
- ↗ ↖ Wind Direction

Mining plan for silica sand over an extent of 32.48 Hectares  
(Including Mining Area 75.71 Ac, Safety zone area 4.61 Ac)  
in Compartment no. 94  
of Momidi RF, Chillakuru (M), SPSR Nellore (Dt), A.P

**APPLICANT:-M/s SRI MINES**  
**Mg.Partner:-Sri G.SRI RANGA REDDY**

KEY CUM LOCATION PLAN  
TOP SHEET 94/4

Scale 1:50,000 (1 cm = 500m)

The above Plan is prepared on the basis of authenticated  
mining lease sketch provided by the State Govt and  
certified that the above plan is correct

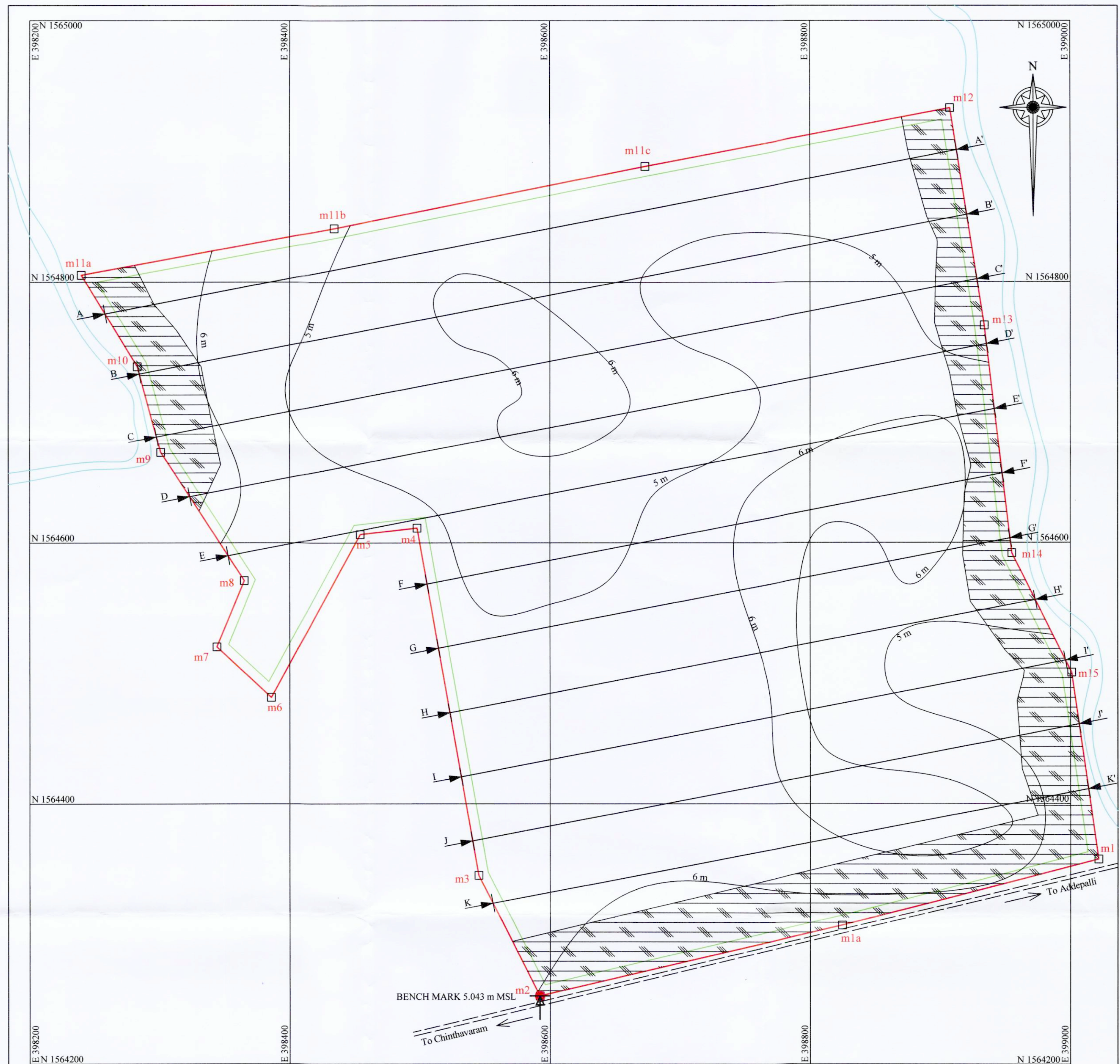
**For SRI MINES**

G. Viswanja Reddy.

Applicant Mg Partner

P. Viswam, B.E., Mining  
(RQP/BNG/346/2015/A)





# INDEX

- Lease Boundary
- 7.5 M Buffer Line
- Section Line
- Contour Line
- Silica Sand
- Canal
- B.T Road
- 50 m Buffer Zone from the Canal & B.T Road
- Bench Mark

Plate no. 3

Mining plan for silica sand over an extent of 32.48 Hectares (Including Mining Area 75.71 Ac, Safety zone area 4.61 Ac) in Compartment no. 91 of Momidi RF, Chillakuru (M), SPSR Nellore (Dt), A.P

**APPLICANT:-M/s SRI MINES**  
**Mg.Partner:-Sri G.SRI RANGA REDDY**

**SURFACE CUM SURFACE GEOLOGICAL PLAN**

Scale :- 1 : 2000 (1cm = 20m)

The Plan is Prepared on the basis of authenticated mining lease sketch provided by the Chief Conservator of Forest and certified that the above plan is correct



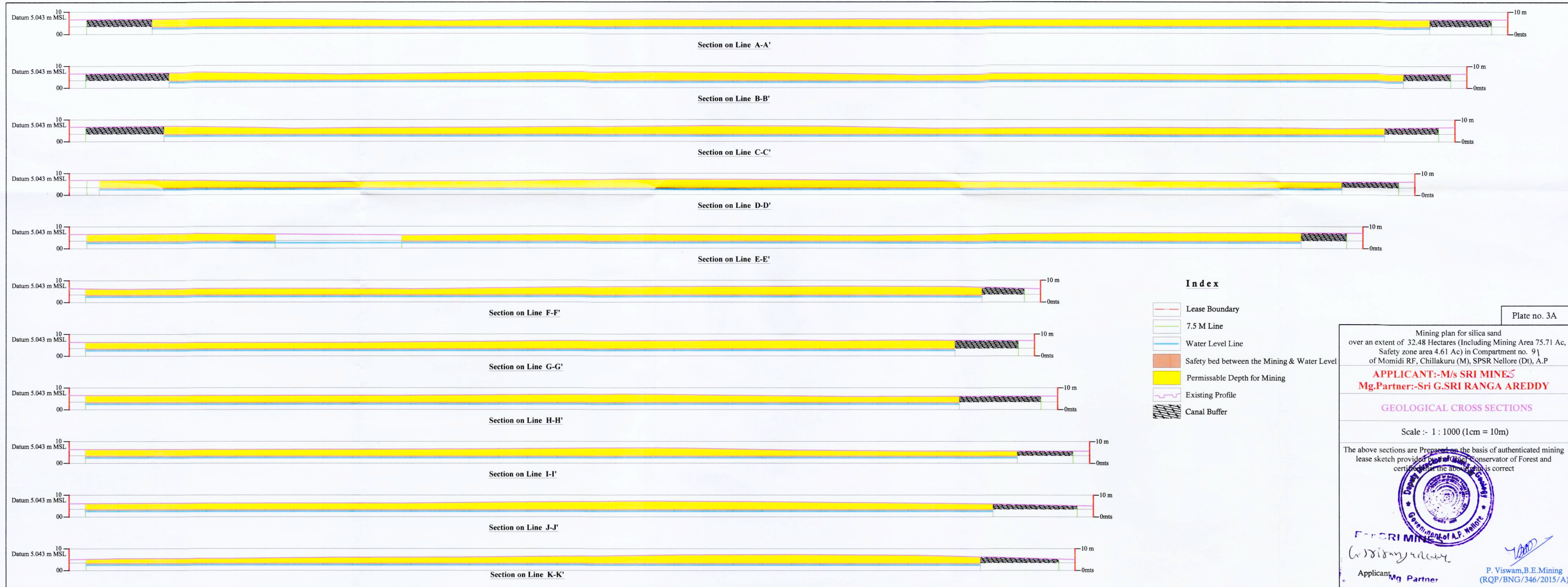
For SRI MINES

G. S. Ranga

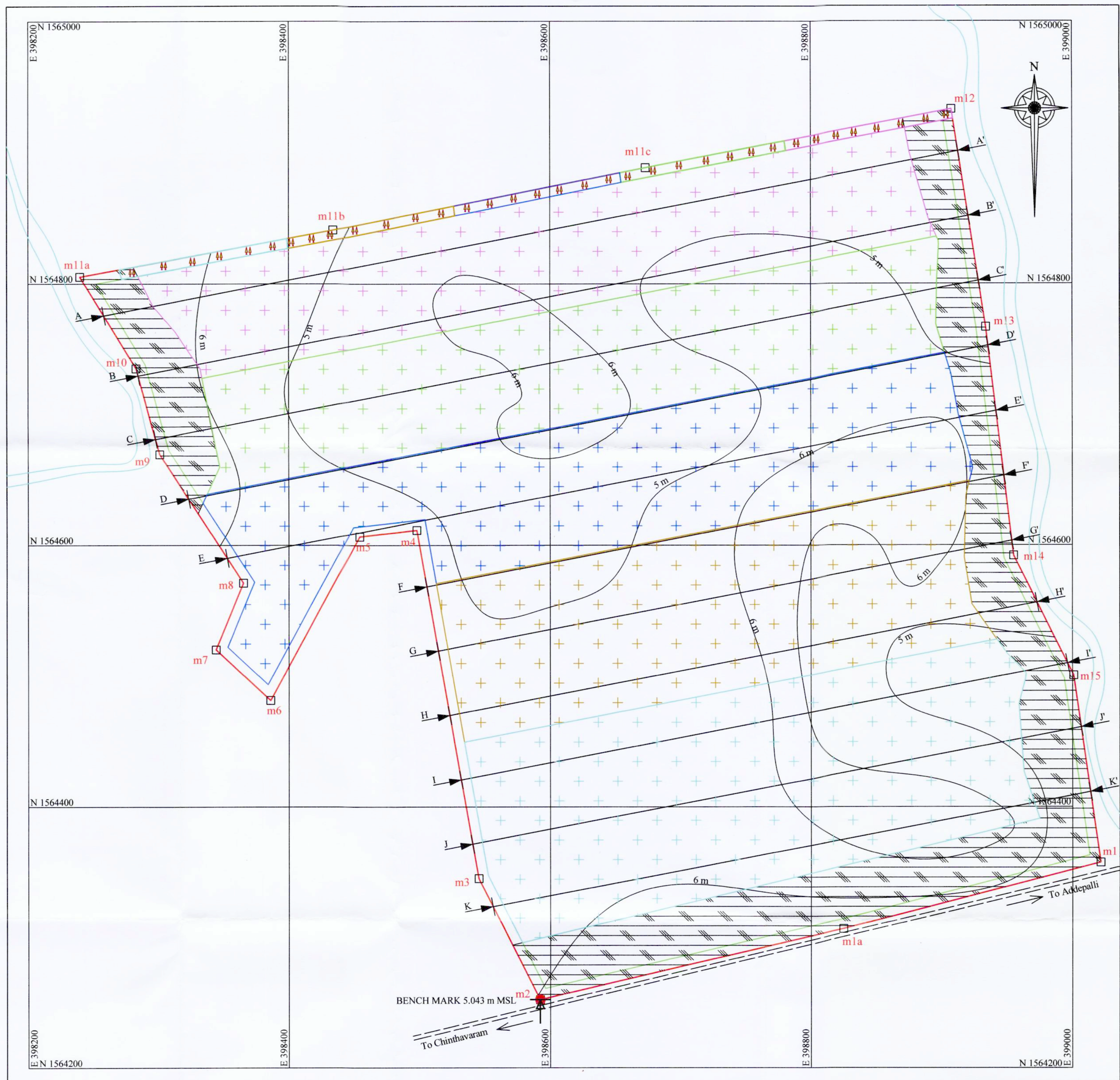
Applicant Mg Partner

P. Viswam, B.E. Mining  
(RQP/BNG/346/2015/A)









# INDEX

|  |  |
|--|--|
|  | Lease Boundary                             |
|  | 7.5 M Buffer Line                          |
|  | Section Line                               |
|  | Contour Line                               |
|  | Canal                                      |
|  | B.T Road                                   |
|  | 50 m Buffer Zone from the Canal & B.T Road |
|  | Bench Mark                                 |

# Proposed

| Workings |          | Plantation |
|----------|----------|------------|
|          | 1st Year |            |
|          | 2nd Year |            |
|          | 3rd Year |            |
|          | 4th Year |            |
|          | 5th Year |            |

Plate no. 4

Mining plan for silica sand over an extent of 32.48 Hectares (Including Mining Area 75.71 Ac, Safety zone area 4.61 Ac) in Compartment no. 91 of Momidi RF, Chillakuru (M), SPSR Nellore (Dt), A.P

**APPLICANT:-M/s SRI MINES**  
**Mg.Partner:-Sri G.SRI RANGA REDDY**

## MINE LAYOUT PLAN

Scale :- 1 : 2000 (1cm = 20m)

The Plan is Prepared on the basis of authenticated mining lease sketch provided by the Chief Conservator of Forest and certified that the above plan is correct



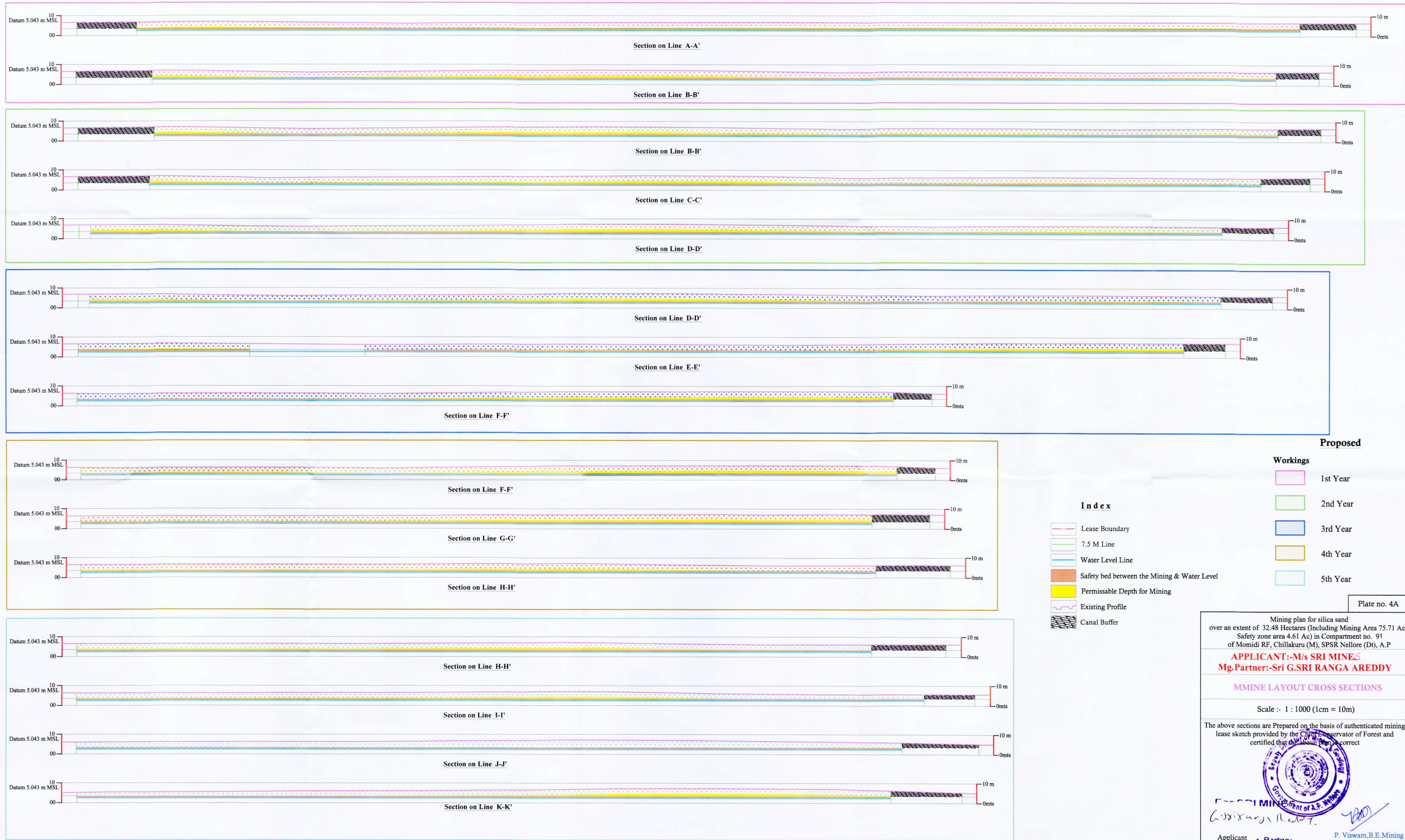
**For SRI MINES**

G. S. Ranga Reddy,

Applicant 'M Partner'

P. Viswam, B.E. Mining  
(RQP/BNG/346/2015/A)

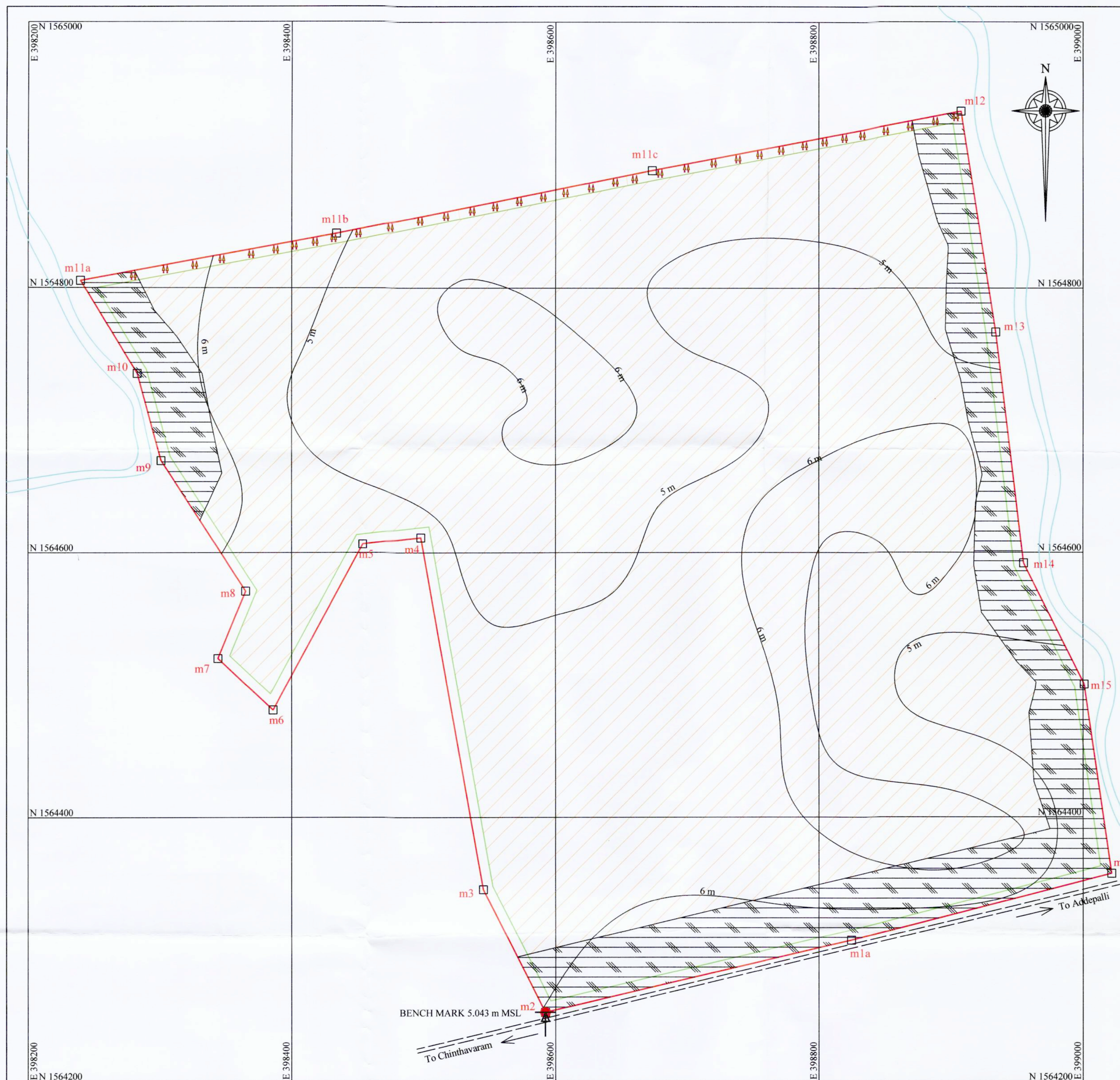












# INDEX

- Lease Boundary
- 7.5 M Buffer Line
- Contour Line
- Canal
- B.T Road
- 50 m Buffer Zone from the Canal & B.T Road
- Bench Mark
- Proposed Workings
- Proposed Plantations

Plate no. 6

Mining plan for silica sand over an extent of 32.48 Hectares  
(Including Mining Area 75.71 Ac, Safety zone area 4.61 Ac) in  
Compartment no. 91  
of Momidi RF, Chillakuru (M), SPSR Nellore (Dt), A.P

**APPLICANT:-M/s SRI MINES**  
**Mg.Partner:-Sri G.SRI RANGA REDDY**

**FINANCIAL ASSURANCE PLAN**

Scale :- 1 : 2000 (1cm = 20m)

The Plan is Prepared on the basis of authenticated mining lease  
sketch provided by the Chief Conservator of Forest and  
confirmed that the above plan is correct



Applicant Partner

P. Viswam, B.E. Mining  
(RQP/BNG/346/2015/A)



# Map Showing the Diversion of Forest Land for Mining Lease Area in Compartment no.91 of Momidi RF, Varagali Beat, Nellore Range, Nellore Division of Guntur Circle, A.P.State.



| PROJECTION: UTM ZONE-44, DATUM: WGS84 |                  |                |               |              | GCS_WGS84   |             |
|---------------------------------------|------------------|----------------|---------------|--------------|-------------|-------------|
| S.no                                  | Name             | Northing (y)   | Easting (x)   | Elevation(m) | Latitude    | Longitude   |
| MINING AREA CO-ORDINATES              |                  |                |               |              |             |             |
| 1                                     | BASS.CHITALAVARA | 1563946.756410 | 395766.870477 | 14.772       | 14.14472318 | 80.03422909 |
| 2                                     | m-1              | 1564357.460620 | 399021.643410 | 4.938        | 14.14855555 | 80.06436806 |
| 3                                     | m1a              | 1564306.512220 | 398824.642542 | 4.977        | 14.14808783 | 80.06254478 |
| 4                                     | m-2              | 1564252.063920 | 398592.157475 | 5.043        | 14.14758716 | 80.06039288 |
| 5                                     | m-3              | 1564345.233780 | 398545.168150 | 5.654        | 14.14842778 | 80.05995407 |
| 6                                     | m-4              | 1564611.386010 | 398497.815399 | 5.133        | 14.15083225 | 80.05950546 |
| 7                                     | m-5              | 1564606.485710 | 398453.959581 | 5.285        | 14.15078636 | 80.05909933 |
| 8                                     | m-6              | 1564481.560970 | 398385.864268 | 4.977        | 14.14965448 | 80.05847308 |
| 9                                     | m-7              | 1564520.319670 | 398343.972407 | 5.531        | 14.15000336 | 80.05808352 |
| 10                                    | m-8              | 1564571.051230 | 398365.114367 | 5.638        | 14.15046278 | 80.05827751 |
| 11                                    | m-9              | 1564669.557780 | 398300.864506 | 5.515        | 14.15135101 | 80.05767857 |
| 12                                    | m-10             | 1564735.333670 | 398282.820549 | 5.786        | 14.15194501 | 80.05750895 |
| 13                                    | m11a             | 1564805.344590 | 398239.711898 | 5.305        | 14.15257639 | 80.05710694 |
| 14                                    | m11b             | 1564841.057010 | 398433.944243 | 5.591        | 14.15290631 | 80.05890516 |
| 15                                    | m11c             | 1564888.694370 | 398673.234501 | 5.511        | 14.15334566 | 80.06112041 |
| 16                                    | m-12             | 1564933.164030 | 398907.549517 | 5.196        | 14.15375617 | 80.06328968 |
| 17                                    | m-13             | 1564766.803170 | 398933.838356 | 5.145        | 14.15225311 | 80.06353941 |
| 18                                    | m-14             | 1564592.062900 | 398954.975666 | 5.401        | 14.15067411 | 80.06374171 |
| 19                                    | m-15             | 1564500.463680 | 399000.900348 | 5.131        | 14.14984765 | 80.06417059 |
| SAFETY ZONE AREA CO-ORDINATES         |                  |                |               |              |             |             |
| 1                                     | b1               | 1564362.665800 | 399013.992942 | 4.852        | 14.14860233 | 80.06429699 |
| 2                                     | b1a              | 1564315.622030 | 398824.681203 | 5.540        | 14.14817019 | 80.06254480 |
| 3                                     | b2               | 1564261.084020 | 398595.678836 | 5.382        | 14.14766884 | 80.06042517 |
| 4                                     | b3               | 1564347.529120 | 398552.235743 | 5.233        | 14.14844878 | 80.06001947 |
| 5                                     | b4               | 1564617.325010 | 398502.129174 | 4.930        | 14.15088610 | 80.05954521 |
| 6                                     | b5               | 1564612.783020 | 398450.621337 | 4.909        | 14.15084317 | 80.05906817 |
| 7                                     | b6               | 1564493.627970 | 398385.303957 | 4.861        | 14.14976356 | 80.05846744 |
| 8                                     | b7               | 1564523.330450 | 398352.076121 | 5.352        | 14.15003088 | 80.05815849 |
| 9                                     | b8               | 1564573.807970 | 398372.747595 | 5.647        | 14.15048798 | 80.05834813 |
| 10                                    | b9               | 1564673.514750 | 398307.502221 | 5.528        | 14.15138702 | 80.05773992 |
| 11                                    | b10              | 1564737.693100 | 398289.637319 | 5.657        | 14.15196659 | 80.05757202 |
| 12                                    | b11a             | 1564800.235330 | 398248.753930 | 5.676        | 14.15253052 | 80.05719090 |
| 13                                    | b11b             | 1564833.834490 | 398435.685258 | 5.157        | 14.15284108 | 80.05892156 |
| 14                                    | b11c             | 1564880.934970 | 398675.035862 | 5.420        | 14.15327558 | 80.06113738 |
| 15                                    | b12              | 1564925.336550 | 398902.338023 | 5.404        | 14.15368522 | 80.06324169 |
| 16                                    | b13              | 1564766.099640 | 398927.182771 | 5.310        | 14.15224651 | 80.06347777 |
| 17                                    | b14              | 1564589.205900 | 398948.819768 | 5.607        | 14.15064805 | 80.06368478 |
| 18                                    | b15              | 1564498.177750 | 398994.503632 | 5.198        | 14.14982675 | 80.06411141 |

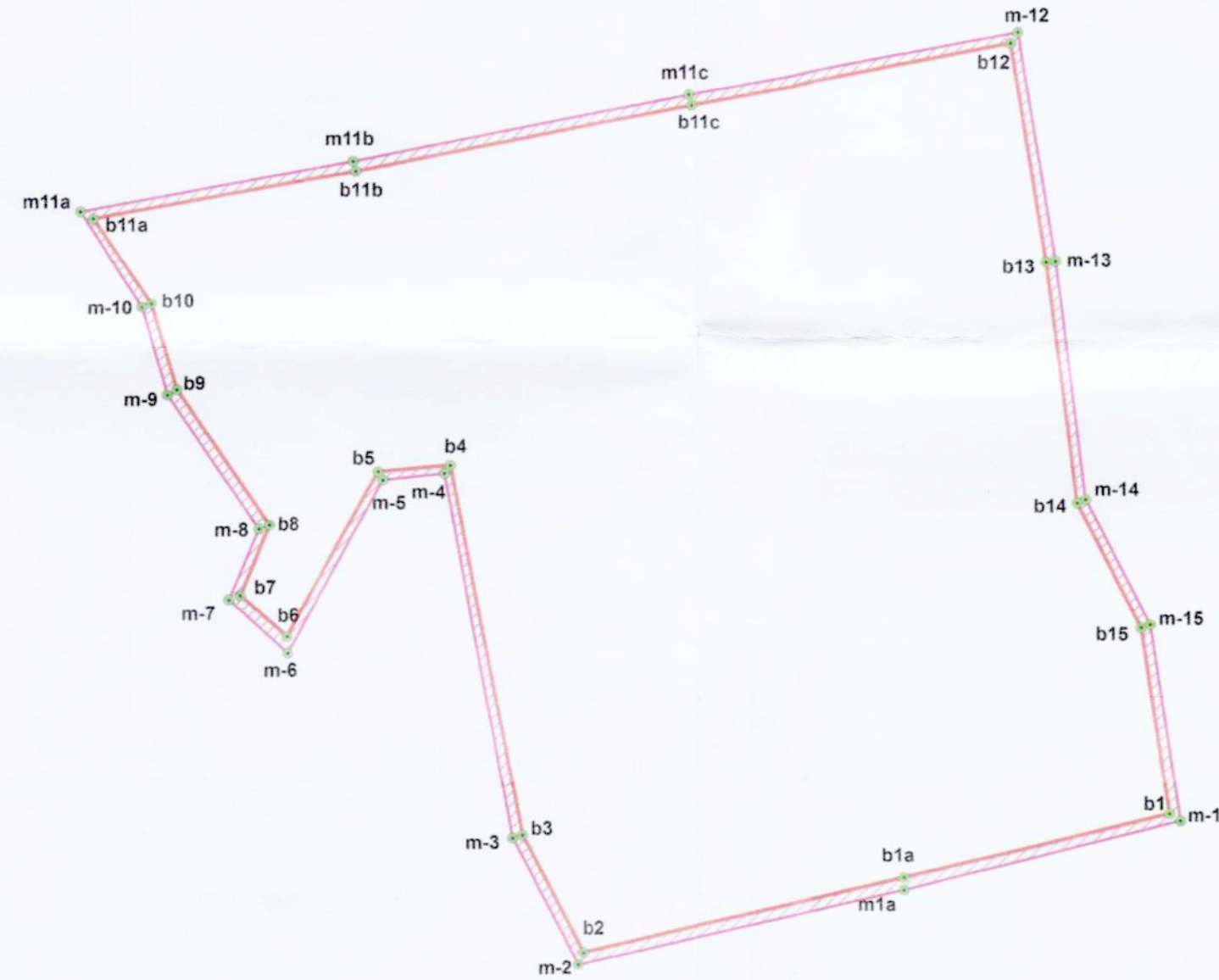


PLATE No. 2

P. VISWAM, B.E. MINING  
RQP/BNG/316/2015/A

| S.No | Description       | Area_ac      |
|------|-------------------|--------------|
| 1    | MINING AREA       | 75.71        |
|      | SAFETY ZONE AREA  | 4.61         |
|      | <b>Total Area</b> | <b>80.32</b> |

V. Ananthakrishna  
Forest Beat Officer  
Varagali

Forest Section Officer  
Taminapatnam



Forest Range Officer  
Nellore

Sub-Divisional Forest Officer  
Venkatagiri



Legend  
GPS POINTS  
MINING AREA  
SAFETY ZONE AREA