MINING PLAN FOR ROAD METAL & BUILDING STONE
OVER AN EXTENT OF 2.000 Hect. LOCATED IN SY. NO. 383/P, KALIGIRI VILLAGE, PUNUMUR, CHITTOOR DISTRICT,
ANDHRA PRADESH STATE

Introduction

Smt.V.Geetha Prop: M/s. Sri Dharani Stone Crushers, has applied for grant of Quarry Lease for Road Metal and Building Stone over an extent of 2.000 hectares in 383/P of Kaligiri village, Punumur, Chittoor District on 15-03-2007.

The Asst. Director of Mines & Geology, Palamner has submitted proposals and recommended for grant of quarry lease for Road Metal and Building stone over an extent of 2.000 hectares in 383/P of Kaligiri village, Punumur, Chittoor District for a period of 10 years in favour of Smt.V.Geetha Prop: M/s. Sri Dharani Stone Crushers subject to satisfaction of A.P.M.M.C. Rules, 1966 and subsequent Govt. Instructions issued from time to time..

The Deputy Director of Mines & Geology after careful examination of the proposals of the Asst. Director of Mines & Geology, Palamaner it is decided in principle to grant a Quarry Lease for Road Metal & Building stone over an extent of 2.000 hectares in 383/P of Kaligiri village, Punumur, Chittoor District for a period of 10 years in favour of Smt.V.Geetha Prop: M/s. Sri Dharani Stone Crushers vide Notice. No. 1464/Q/CTR/2007, dated:23-01-2008 subject to submission of Approved Mining Plan along with consent for Establishment from A.P.Pollution Control Board & Environmental Clearance from Ministry of Environment & Forest as per Environment Impact Assessment Notification through S.O.1533, dated:14-09-2006. (Annexure-I).

In this connection it is submitted that as envisaged in the Environment Impact Assessment (EIA )Notification, 14th September, 2006, the mining projects with lease area of 5Ha and above irrespective of the mineral ( major or minor) to obtain prior environment clearance under the provisions thereof. Further all Category A and Category B1 projects shall under take public consultation in accordance to EIA
Further the Government of India, Ministry of Environment & Forest vide office memorandum No. L-11011/47/2011-IA.II(M), Dated: 18th May, 2012 in order to ensure compliance of the Honourable Supreme Court Dated: 27.02.2012 in I.A.12-13 of 2011 in SLP( C ) No. 19628-19629 of 2009, instruction were issued that all the mining projects of minor minerals including their renewal, irrespective of the size of the lease would hence forth require prior environment clearance.

The Government of India vide Notification No. 141(E), Dt: 15.01.2016 notified guidelines for construction of District Level Environment Impact Assessment Authorities and other guidelines for issue of Environmental clearances for minor mineral leases for an extent of less than 5.00 hec. etc., accordingly, Mining Plan became a pre-requisite for obtaining Environmental clearance. Hence a Provision to the effect that quarry operations for minor minerals shall be conducted in accordance with the approved Mining Plan has to be incorporated by the State Government vide G..O.Ms. No. 56, Inds.& Comm. (M.II) Department, Dated: 30.04.2016.

Smt.V.Geetha Prop: M/s. Sri Dharani Stone Crushers approached Dr.G.Eswar Reddy, Consultant Geologist & RQP to prepare the Mining Plan following the guidelines and hence this Mining Plan is prepared under Rule 7 (A) of APMMC’1966 and submitted.
I GENERAL

1.1 Name and Address of the Lessee
SMT. V. GEETHA
PROTX: M/S SRI DHARANI STONE CRUSHERS
W/O: HARI BABU NAIDU,
MATAMPALLI(V),
KALAVAGUNTA(P),
MURUKAMBATTU(VIA),
PENUMUR(M),
CHITTOOR DISTRICT, A.P.
CONTACT NO. 9000078497

1.2 Status of the Lessee (Individual/ Private Company/ Firm)
Individual

1.3 Mineral(s) which are included in the Letter of Intent
ROAD METAL & BUILDING STONE

1.4 Name and Details of person employed for preparing Mining Plan
G. ESWAR REDDY M.Sc., B.L.,
RQP/Geologist,
D.No.13-2-155-1,
Shirdi Nagar,
ANANTAPURAMU. A.P. 515001.
Mobile: 09849132789.
Phone No: 08554 222737.

1.5 E-Mail & Website
Email: eswarreddygeologist@gmail.com

1.6 RQP Registration No. & Validity
RQP/DMG/AP/07/2014 &
RQP/HYD/302/2013/A,
Valid Up to Dec-2024

II LOCATION AND ACCESSIBILITY

1. Toposheet No. with latitude and longitude of all corner boundary pillars: The Quarry lease area falls on SOI Toposheet No. 57 O/03 the Geo Co-ordinates of the boundary pillars are tabulated below:

<table>
<thead>
<tr>
<th>GCP</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>13° 19’ 13.1”N</td>
<td>79° 07’ 41.7”E</td>
</tr>
<tr>
<td>B</td>
<td>13° 19’ 13.7”N</td>
<td>79° 07’ 39.8”E</td>
</tr>
<tr>
<td>C</td>
<td>13° 19’ 16.9”N</td>
<td>79° 07’ 40.4”E</td>
</tr>
<tr>
<td>D</td>
<td>13° 19’ 18.6”N</td>
<td>79° 07’ 36.8”E</td>
</tr>
<tr>
<td>E</td>
<td>13° 19’ 20.7”N</td>
<td>79° 07’ 37.8”E</td>
</tr>
<tr>
<td>F</td>
<td>13° 19’ 18.2”N</td>
<td>79° 07’ 43.9”E</td>
</tr>
<tr>
<td>G</td>
<td>13° 19’ 16.1”N</td>
<td>79° 07’ 43.0”E</td>
</tr>
<tr>
<td>H</td>
<td>13° 19’ 16.3”N</td>
<td>79° 07’ 42.3”E</td>
</tr>
</tbody>
</table>
**Map Datum: WGS-84**

<table>
<thead>
<tr>
<th>State &amp; District</th>
<th>Mandal</th>
<th>Village</th>
<th>Sy. No. s</th>
<th>Area in Hects.</th>
<th>Whether the area is in forest / Non-forest, Ownership / Occupancy</th>
<th>Land Use Pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.P., Chittoor</td>
<td>Penumur</td>
<td>Kaligiri</td>
<td>383/P</td>
<td>2.000</td>
<td>Government Land</td>
<td>Waste Land</td>
</tr>
</tbody>
</table>

2. **Attach a general location map showing area and access routes:**

The QL applied area is located at a distance of 85 km from the District Headquarter town of Chittoor. After travelling about 80 Kms on Chittoor to Kupam Road NH-219 Penumur is reached. Then along the SH-59 Penumur to Gudiyatham Road travel further 4.2 Kms on SH-59 to reach the Bandlavuru Village. From Penumur QL applied area can approached by travelling 4.2 km towards Gudiyatham road at 4.2 km take left diversion to Bandlavavvu Village Road after travelling 1.2 km take left diversion towards Kaligiri Road near Chinnabandapalli village at about 0.5km left side Peddakallupalli - Kaligiri road QL applied area is reached. The QL applied area has got good accessibility to the Palamaner to Kuppam NH 219 road is 6.5 kms. from Q.L. applied Area connecting at Penumur. Power connections are available up to quarry site. The company will draw power lines from the village. Tele communication facility is available at Penumur which is at a distance of about 7.5 0 km and all networks can function in the site area. The nearest railway station is at Kuppam which is about 32 km. Nearest Port facilities are at Chennai, Krishnapatnam, Mangalore and Tuticoreine. The processing of the raw material is not available at the mine site. High school is present in the Penumur village, Degree level Educational facilities exist at Kuppam and Palamaner. Hospital facility is available at Penumur which is 6.0 km. from the quarry.

The Mandal Headquarter Penumur is about 6.0 Kms from the QL applied area. The State capital, Amaravathi is about 640 Kms.

III **DETAILS OF APPROVED MINING PLAN / PLAN OF MINING IF ANY**

This is the first Mining Plan being submitted.
PART – A

1. General details of the Q.L. area:
The subject area covers the part of the Pediment comprising negligible soil cover along the depressions of the sheet rock exposed over the subject area. The proposed quarry lease area is elevated on NE side and it is sloping towards SW. It is having maximum relief of 405m MSL from the base of 330m MSL. The drainage pattern is dendritic to sub-dendritic. The applied area belongs to rocky terrain it does not have much vegetation. SE side of the area installed new Crusher within lease applied area. The climate is tropical with temperatures ranging from 28 °C to 38 °C in the summer and 18 °C to 20 °C in the winter. The average annual rainfall is about 817.8 mm and in the year 2010-11 916.0 mm.

2. GEOLOGY AND EXPLORATION:
a) Regional Geology:
The region of the subject area is belonging to Peninsular Gneiss of Archean group. The Peninsular Gnessic Complex comprising migmatite gneiss, grey granodiorite, Porphyritic granite and intruded by dolerite and aplite veins.
The Peninsular Gneissic Complex comprises of gneiss – migmatite – granite suite of rocks. They are highly variable in mineralogical composition appearance structure and relative ages. The individual members have not been distinguished in a major part of the area. However, granite and migmatite gneiss occupy a large part of the area while bands of relatively younger coarse – grained gneissic granite occur in the north eastern part.
The Chittoor belt located along the Peninsular Gneissic Complex comprises a complex assemblage of gneissic variants and granitic rocks which occupy almost the entire lease area the Peninsular Gneissic Complex in the area is representing mostly by Biotite hornblende gneiss granite and migmatite in north eastern part of the lease area and made up of rocks of high grade metamorphism, migmatisation and intense deformation. These granites, which are often porphyritic, are intrusive.
into the gneissic terrain and contain alkali feldspar space. The later in parts the colour to the granite which ranges from light to deep pink because of the massive nature of these intrusive they are amenable for producing large size blocks, due to the wide spaced joint pattern imparted to them. The granite deposits are mostly confined to the belt between Gudipla and Chittoor.

**Stratigraphy of the Area:**

<table>
<thead>
<tr>
<th>Lithology</th>
<th>Formation</th>
<th>Age</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hornblende-biotite gneiss – Granodiorite –</td>
<td>Peninsular Gneissic Complex</td>
<td>Archaean</td>
</tr>
<tr>
<td><strong>Granitoid Gneiss</strong> - Migmatite</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calc –Silicate rock, Marble, Fuchsite Quartzite, Hornblende, Talc – Mica Schist</td>
<td>Middle Proterozoic</td>
<td></td>
</tr>
<tr>
<td>Quartzo- felspathic schist / Quartz-Mica Schist / Banded Ferruginous Quartzite</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**b) Local Geology:**

The subject area is Granitoid gneiss belonging to Peninsular Gneissic Complex of Archaean age. The outcrop exhibits multiple sets of joints both closely spaced and widely spaced as such it is most suitable for quarrying Road metal and Building stone (**Plate-3**).

c) **Details of the Prospecting License Holder:** N.A.

d) **Details of the Prospecting carried out:**

The subject area is demarcated on the ground with reference to Revenue Pillars. Later the topographical survey of the area was carried out. The ABM (**BP-A**) is connected to Grid of N 13° 19’ 13.1” & E 79° 07’ 41.7” located on the NW of the QL applied area. Based on topographical survey and geological features, collected from the surface data, the
surface geological Plan is prepared on 1:1500 scale with 5.0 m contour interval and enclosed as Plate -3.

e) Surface Plan area on 1:1000 scale: The surface cum Geological Plan and Cross Sections of the QL is prepared on 1:1000 scale and is enclosed as Plates-3 & 4.

f) Geological Plan is enclosed as Plate-3.

g) Geological cross sections have been shown on Plate-4.

h) Future Program of Exploration programme Plan need in next five years:
The subject area is a hillock deposit and clearly exposed in the levels of both vertically and laterally. High amount of reserves exist in the hillock are notice itself. Hence no future programme of exploration is required.

i) Reserves and Resources as per UNFC:

(i) Type of Deposit as per UNFC Guidelines

Road metal and building stone is not failing in any category of UNFC classification. It is localized mineral available anywhere utilized for construction purpose such as laying roads, construction of buildings etc., depending upon the characteristics of the rock. Granites, dolerites etc which are highly disturbed and dolomites, quartzite etc., which are not useful for any other their specific purpose of their characteristics in specified area useful for construction as road metal and building stone as locally.

(ii) Parameter – Grade, Threshold value, Sectional Area and Bulk Density:

As the ROM is intended for use in the Road metal and Building stone no specific parameters were considered. The bulk density of 2.5 is adopted for estimating the reserves.

The sectional area was considered and assumed thickness of sheet rock and 30 m on either side of the leased area. The Bulk Density was considered at 2.5.
ii) **Status of exploration**: G1

**GEOLOGICAL AXIS:**

1. **Geological Survey:**
   
i) **Mapping**: Detailed geological survey was carried out in the applied area on 1:2000 scale with 5.0 meter contour interval.

   ii) **Preparation of detailed topographical cum Geological map**: The topographical cum Geological map including all surface Geological features, extent of deposit, structures, have been prepared on 1:2000 scale duly marked with surface geological features, GCP’s etc. ([Plate-3](#)).

   iii) **Topo grid / Triangulation stations**: The topo grid with Geological cross sections has been prepared on prescribed scale showing litho-units. Relevant Plans are enclosed as [Plate-3](#).

2. **Geo-Chemical Survey**: Geo Chemical survey is not warranted. The suitability for aggregates was tested.

3. **Geophysical survey**: Not carried out.

4. **Technological survey**:
   
   - Detailed topographical and geological survey was carried out on 1:2000 scale showing all the surface features, contours at 5.0 m interval, the lease boundary, surface Geology & Structural features.
   - The entire thickness of Road metal & Boulder stone found to be more than 60m which was correlated from the bore hole inventory data in the adjacent lands.
   - Reserves are estimated by cross section method.

**FEASIBILITY AXIS:**

1. **Geology**:
   The detailed Geology has been detailed in [Part-A](#), Para-2 which may kindly be referred to.
2. Mining:
Road Metal and Building stone will be exploited through opencast other than fully mechanized mining methods with drilling & Blasting. ROM will be directly consumed by the Lessee for the crushing Plant and installed for the highways Project from Palamaner to Kuppam. The Lessee has already established the crusher and hot mix Plant SE side within the quarry lease applied area.

3. Environment:
The deposit will be mined adopting conventional opencast semi-mechanized mining methods without any adverse environmental impact. The Lessee will obtain statutory clearances as soon as this Mining Plan is approved. Mining in the leasehold does not disturb any human settlements as they are far away from the lease area. On the other hand the mining operations will create livelihood to the villagers nearby. The Lessee will develop green belt around the QL area as part of his commitment to environment protection.

4. Processing:
After blasting the ROM will be fed directly on to the crusher for crushing in to desired sizes of aggregates. The crusher is already in place outside the proposed quarry lease area.

Mining operations will be carried out by deploying the following machinery:

<table>
<thead>
<tr>
<th>S.No</th>
<th>Type of machine</th>
<th>Nos</th>
<th>Dia of hole (inches)</th>
<th>Size/capacity</th>
<th>Make</th>
<th>Motive power</th>
<th>H.P</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Excavator /JCB</td>
<td>2</td>
<td>-</td>
<td>1.2 cu m</td>
<td>L&amp;T</td>
<td>Diesel</td>
<td>200</td>
</tr>
<tr>
<td>2</td>
<td>Tippers</td>
<td>5</td>
<td>-</td>
<td>17 tons</td>
<td>-</td>
<td>Diesel</td>
<td>60</td>
</tr>
<tr>
<td>3</td>
<td>Drilling machines</td>
<td>1</td>
<td>3”</td>
<td></td>
<td></td>
<td>Diesel</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Tractor mounted compressors</td>
<td>2</td>
<td>2”</td>
<td></td>
<td></td>
<td>Diesel</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>Water Tankers</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Loaders</td>
<td>2</td>
<td></td>
<td>3 cu m</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5. Infrastructure: The entire necessary infrastructure such as office, rest shelter, magazine, explosive van, water tankers, power connection
**ECONOMIC AXIS:**

1) **Detailed exploration:**

Detailed topographic survey and geological mapping the applied QL area was subjected to detailed exploration by field traverses and well inventory data. The depth of sheet rock is assessed by the litho log observed in the boreholes of agricultural lands.

2) **Mining Reports/Mining Plan**

This is the first Mining Plan being submitted.

3) **Specific end-use grades of reserves (above economic cutoff grade)**

ROM is intended for crushing to use in the aggregates for roads.

4) **Specific knowledge of forest/non-forest and other land use data**

The entire QL applied area is covered by Government lands. **Putalapattu Reserved Forest** Boundary is 3.0 km North of the QL applied area. The interstate boundary between Andhra Pradesh and Karnataka is 50 Kms West of the Quarry lease area. Hence, considering...
the above parameters discussed reserves / resources are categorized as E-1 Axis.

**(j) Feasibility Report along with financial analysis per economic viability of the deposit:** The cost of production of road metal and building stone is arrived at Rs250/- per ton inclusive of taxes and royalty. The entire ROM is for only captive purpose as such it is surely economic and profit oriented.

**(k) RESERVES**

**(i) Mode of Mining, recovery Factor, Mining Losses, Processing Losses etc., Road Metal and Boulder stone will be mining by open cast other than fully mechanized method with drilling and blasting. The recovery factor is considered as 95% with 5% interstitial voids and fractures. There will not be any mining losses excepting handling loss which will be again recovered during further loading.

**(ii) Cut off grade and Ultimate Pit depth:** There is no cut off grade as the ROM will be put to use for road metal as aggregates. The UPL will be 320.m at the Southern portion of the QL applied area during the fifth year of this Mining Plan period.

**(iii) Mineral blocked due to the presence of / maintenance of benches, barriers, internal roads, electrical lines etc.:** The mineral will be blocked in 7.5m safety barrier zone, Roads, Benches which is computed separately and tabulated in the succeeding paragraphs.

**(iv) Total Mineral reserves:**

The reserves are estimated basing field traverses and the litho log of the well inventory in the adjacent agricultural fields and cross sections drawn on the ore body. The area of the influence and the cross sections were taken at 50 m on an average i.e. 25 m on either side of the Cross section. The occurrence of the Granitoid gneiss is more than 60.0 m BGL. Based on the field traverses and correlated data from the boreholes in the adjacent agricultural lands to a depth of 150.0m, the
estimated reserves are considered as Proved reserves. The cross sections A-A’ & B-B’ are considered for computation of reserves. The present area which is explored is considered for computation of reserves under G-1 category.

<table>
<thead>
<tr>
<th>Category</th>
<th>Sections</th>
<th>Sectional Area</th>
<th>Deposit Height in m</th>
<th>Volume m³</th>
<th>RESERVES OF AGGREGATE @ 95% IN m³</th>
<th>RESERVES OF AGGREGATE @ 2.5/m³ IN Tons</th>
<th>Rock Waste @ 5% in m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proved</td>
<td>A-A’</td>
<td>8095</td>
<td>66</td>
<td>534270</td>
<td>507557</td>
<td>1268891</td>
<td>26714</td>
</tr>
<tr>
<td>Proved</td>
<td>B-B’</td>
<td>11905</td>
<td>31</td>
<td>369055</td>
<td>350602</td>
<td>876506</td>
<td>18453</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>20000</td>
<td></td>
<td>903325</td>
<td>858159</td>
<td>2145397</td>
<td>45166</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>661765</td>
<td>628677</td>
<td>1915915</td>
<td>33088</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>566483</td>
<td>538159</td>
<td>1345397</td>
<td>28324</td>
</tr>
</tbody>
</table>

Geological Reserves of Road Metal & Building Stone = 2145397Tons
Less Reserves blocked in Buffer Zone of 7.5mts = 1915915Tons
Net Reserves available for Mining after Bench Slope Deduction = 1345397 Tons
Total Mined Depleted in The Q.L. Area = 26580Tons
Net Minable Reserves of road metal & building stone = total reserves - depleted minerals = 1345397 - 26580 = 1318817tons
Mineral already excavated in QL area
LIFE OF THE MINE:-
Net Mineable reserves/ Average yearly production=1318817/26078=
50.57 years.

<table>
<thead>
<tr>
<th>S.No</th>
<th>Year</th>
<th>Quantity in CBM</th>
<th>Tons</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2008-09</td>
<td>900</td>
<td>2250</td>
</tr>
<tr>
<td>2</td>
<td>2009-10</td>
<td>1098</td>
<td>2745</td>
</tr>
<tr>
<td>3</td>
<td>2010-11</td>
<td>1074</td>
<td>2685</td>
</tr>
<tr>
<td>4</td>
<td>2011-12</td>
<td>1200</td>
<td>3000</td>
</tr>
<tr>
<td>5</td>
<td>2012-13</td>
<td>1350</td>
<td>3375</td>
</tr>
</tbody>
</table>
3.0 MINING

(i) OPEN CAST MINING METHOD (Mining Carried out)

i) This is a fresh mine.

The proposed mining will be carried out by opencast other than fully mechanized mining method with drilling and blasting. The ROM will be sized and sorted in the crusher established outside the quarry lease area and loaded on to tippers and tractors using JCB. Mining will be carried out by formation of benches of height 6 mts each. The details and sections are depicted on Plate-5.

(ii) Year wise tentative excavation in Cubic Meters indicating development, ROM, Pit wise: About 2000 m$^3$ of excavation out of which intended ROM 10980tons of Road Metal & Boulder Stone will be mined by forming two benches of 6.0 m each. The year wise details are tabulated below:

a) Year wise Development: There is a vertical and free face is available on Northern & Middle side of the QL applied area. So the side of the Middle area is selected to work for next five years production. It is envisaged to produce 10431 m$^3$ of salable Road Metal & Boulder Stone in average each year. To raise this target production about 10980 m$^3$ of rock mass has to be mined. The site inspection reveals that the Middle portion of the applied area is suitable for development during 2 years program with RL356 m to 344 m MSL. Most of this area is covered by medium to big size boulders on top and the sheet rock from top to bottom. Year wise quarry development schedule is described below and year wise production and waste generation details are given in table No.2.
In situ Tentative Excavation

<table>
<thead>
<tr>
<th>Year</th>
<th>Working areas m²</th>
<th>Bench height m</th>
<th>Volume m³</th>
<th>PRODECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>RESERVES OF AGGREGATE @ 95% IN m³</td>
</tr>
<tr>
<td>1st year</td>
<td>1000</td>
<td>6</td>
<td>6000</td>
<td>5700</td>
</tr>
<tr>
<td></td>
<td>830</td>
<td>6</td>
<td>4980</td>
<td>4731</td>
</tr>
<tr>
<td></td>
<td><strong>6000</strong></td>
<td></td>
<td><strong>10431</strong></td>
<td><strong>26078</strong></td>
</tr>
<tr>
<td>2nd year</td>
<td>1000</td>
<td>6</td>
<td>6000</td>
<td>5700</td>
</tr>
<tr>
<td></td>
<td>830</td>
<td>6</td>
<td>4980</td>
<td>4731</td>
</tr>
<tr>
<td></td>
<td><strong>2000</strong></td>
<td></td>
<td><strong>10431</strong></td>
<td><strong>26078</strong></td>
</tr>
<tr>
<td></td>
<td><strong>10980</strong></td>
<td><strong>20862</strong></td>
<td><strong>52155</strong></td>
<td><strong>1043</strong></td>
</tr>
</tbody>
</table>

**First Year:** The mining will be initiated over the North side of working pit of lease hold area with formation of benches of 6m height (Two benches one of 6m and second one of 6.0 m) from RL 356 to RL 344m covering an area of 1000m² & 830m² excavating 6000m³ of rock mass from which **26,078 tons** usable Road Metal & Boulder Stone recovery. About 522m³ comprising of intercalated waste or interstitial voids is anticipated. The waste if at all generated will be used for formation of roads and as safety barrier around the lease boundary.

**Second Year:** The mining will be continued towards North of the first Year’s working with two benches of height 6.0m and 6.0m over an area of 1000 m² & 830 m² excavating 6000m³ of rock mass from which **26,078 tons** usable Road Metal & Building Stone recovery. About 522m³ comprising of intercalated waste or interstitial voids is anticipated. The waste if at all generated will be used for formation of roads and as safety barrier around the lease boundary.

During the first five years operations a total rock mass of 10980 m³ will be excavated and **20862 m³** or **52155** tons of Road Metal & Building Stone will be recoverable from this rock mass and remaining material of about 1043m³ will go as mineral waste.
(iii) **Dump Management:** There is no proposal for dump as waste is not anticipated and only interstitial voids and joints are expected in the sheet rock formation.

There is no problem in the quality of Road Metal & Boulder Stone which confirms to the specifications Aggregates.

The applicant proposes to carry out mining by opencast other than fully mechanized method with drilling and blasting. The mineral will be sized and sorted in crusher for desired size separation. Trucks / tippers will be deployed for transportation **Plate- 5.**

**Lay out of Mine Workings, pits, roads, etc.**

The Lessee intends to extract Road Metal and Building Stone production to the tune of 20862m³ or 52155 tons of road metal and boulder stone during the Mining Plan period.

During this period, it is proposed to exploit the road metal from the total area of 2000 m² to an average depth of 12 m over the lease area from RL 356 to RL 344m as shown on **Plate 5.**

**3.1 Drilling and Blasting:**

**Drilling and blasting plays an important role for extraction Rom of Road metal and building stone.** The primary drilling is done with Crawler drills of 4.5” diameter and secondary drilling is done with jackhammers and compressor. The compressor attached to the wagon drill has 450 CFM capacity and compressor attached to jacks can cater needs of 2 jackhammers. Tippers are of 20 T capacity will be utilized for transportation from the leased area to crusher.

Broad parameters of blasting:

\[
H = \text{Height of bench} = 10 \text{ m} \\
L = \text{Length of drill hole} = 11 \text{ m} \\
B = \text{Burden} = 3.0 \text{ m} \\
S = \text{Spacing} = 3.5 \text{ m} \\
D = \text{Diameter of the blast hole} = 100 \text{ mm}
\]

\[
V_R = \text{Vol., of broken Rock} = B \times S \times L = 3.5 \times 3 \times 10 = 105 \text{ m}^3
\]

Volume of rock generated from one hole = 105 x 2.5 sg = 262.5 T

After blasting the rock, the excavator is used for loading rocks. The oversize boulders are dealt with secondary blasting. The material thus transported is fed to 250 TPH capacity crushing Plant. The products are stored separately from where they are dispatched to customers.

**Explosive consumption:**

Taking on powder factor basis, with a PF of 4 total explosive needed per year is 10,00,000/4 = 250 Tons.

**Explosive used:**

The proponent has permission to use ANFO and also got permission under
MMR 106 (2(b)) for deep hole drilling and blasting. The explosives that are used in the quarry are ANFO, cartridge slurries for booster, Pentolite boosters and other blasting accessories.

Storage of Explosive/ Ammonium Nitrate:
The client has an approved explosive magazine 2 in numbers each of capacity 4.5 tons. Thus each magazine has filling permission for 10 times per month i.e. 90 tons the magazines can cater the need of explosive storage requirement. Ammonium Nitrate storage license of 100 tons at a time and twice in a month i.e., 200 tons of Ammonium Nitrate can be used in a month The client has also obtained permission for ANFO mixing shed, where the ANFO is mixed.

**Manpower Requirement:**
A total of 50 persons shall be engaged to carry out the various operations at the QL area. The man power required for the mining operations shall be as per Table given below.

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mining mate</td>
<td>01</td>
</tr>
<tr>
<td>Supervisors</td>
<td>01</td>
</tr>
<tr>
<td>Excavator &amp; Tipper operators</td>
<td>04</td>
</tr>
<tr>
<td>Helpers</td>
<td>10</td>
</tr>
<tr>
<td>Crushing operations</td>
<td>6</td>
</tr>
<tr>
<td>Garrage staff</td>
<td>4</td>
</tr>
<tr>
<td>Drill operators</td>
<td>4</td>
</tr>
<tr>
<td>Compressor operators</td>
<td>2</td>
</tr>
<tr>
<td>Unskilled labours</td>
<td>6</td>
</tr>
</tbody>
</table>

**Deployment of Machinery:**
The mining machinery and equipment proposed to be deployed in the mine for different mining operations during the Plan period are described in the table below:
Details of Mining Machinery Required

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Type of machinery</th>
<th>Capacity &amp; Nos.</th>
<th>Make</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Breaking</td>
<td>Crawler drill 4.5&quot;</td>
<td>100 mm dia 450 cfm / 2 nos.</td>
<td>Atlascapco / CP</td>
</tr>
<tr>
<td>2. Loading</td>
<td>Loader / Excavator</td>
<td>2 no.</td>
<td></td>
</tr>
<tr>
<td>3. Haulage</td>
<td>Tippers</td>
<td>25-tonner, 6 nos</td>
<td></td>
</tr>
<tr>
<td>4. Water tanker</td>
<td>Tractor type 1 no</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

a) **Conceptual Mine Planning:** The worked out pit will occupy an area of 2000 m$^2$ or 0.2000 Hectares to a depth of 12m reaching 344 m (FRL) at the western portion of the quarry lease area. The area occupied by internal roads would be 0.010 Hectares, while Plantation will be occupying an area of 0.0525 Hectares on the North, East, West and part of southern of the applied QL applied Area. The Conceptual Plan with Sections is enclosed as **Plates 6**.

(b) **UNDERGROUND MINING:** NOT APPLICABLE

4.0 **MINE DRAINAGE**

a) The QL applied area is over an elevated mound to a height of 6.0m above ground level. Rain water constitutes the drainage system of the area. Normal course of drainage is a sheet wash over lower reaches and flows through the seasonal nala located on North of QL applied Area. Groundwater level is observed to be ranging in depth from 40-50 m bgl in the nearby agricultural fields.

b) The maximum height of the working level is 330 m while the minimum level of working would be 365 m.

c) Quantity and Quality of Water: The quality and quantity of water cannot be estimated as the mine workings are at much higher levels of the groundwater table. However, the water is tasted in the nearby agricultural field and the quality of water is found to be potable.
d) The entire QL applied area is over a sloping terrain and only sheet wash is anticipated during monsoon in the applied QL area. Regional drainage pattern is observed to be dendritic to sub-dendritic in nature.

5.0 STACKING OF MINERAL REJECTS, SUB-GRADE & DISPOSAL OF WASTE

There is no mineral reject or sub-grade mineral in this quarry. However, about 5% interstitial voids and intercalated waste is anticipated which is computed separately. This will be utilized for the formation of internal roads and balance utilized to form a barrier all along the 7.5m buffer zone of the QL applied area to a height up to 2.0m.

6.0 USE OF MINERAL & MINERAL REJECTS

The ROM will be fed in to the crusher established within the QL applied area where it will be crushed to desired sizes and utilized for the NH & State Highway project from Palamaner to Kuppam. Entire ROM is intended for captive consumption.

7.0 PROCESSING OF ROM & MINERAL REJECTS

In this area ROM will be sized and sorted in crusher for road metal and input to hot mix Plant. There is no Mineral Reject from this Quarry.

8.0 OTHERS

a) SITE SERVICES: Site services such as office Room cum First Aid, Separate Shelter and toilets for Gents & Ladies will be provided at the applied QL area.

b) EMPLOYMENT POTENTIAL:

The human resources deployed are as follows:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Category</th>
<th>No's</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Second Class Mines Manager</td>
<td>1</td>
</tr>
<tr>
<td>2.</td>
<td>Mine Supervisors</td>
<td>1</td>
</tr>
<tr>
<td>3.</td>
<td>Skilled &amp; Unskilled Labour</td>
<td>10</td>
</tr>
<tr>
<td>5.</td>
<td>Watch Men</td>
<td>2</td>
</tr>
<tr>
<td>6.</td>
<td>Foreman</td>
<td>1</td>
</tr>
<tr>
<td>7.</td>
<td>Drivers</td>
<td>6</td>
</tr>
</tbody>
</table>
PART-B
PROGRESSIVE MINE CLOSURE PLAN UNDER RULE 23 OF MCDR’ 1988

1. ENVIRONMENT BASE LINE INFORMATION

a) Existing Land use Pattern: The QL applied area is a barren land. An area of about 2000 m² will be broken to win the mineral. An area of 565 m² is proposed for afforestation. The QL applied area is a barren land and surrounding area forest in the East and agricultural lands to the west and south. (Plate-5)

b) Human Settlements: The applied QL applied area is surrounded by 5 villages. The main occupation of the local people is agriculture, Sheep rearing and business. The details of villages, location, distance and population are given in the following table:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>VILLAGE</th>
<th>Direction</th>
<th>DISTANCE</th>
<th>POPULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Chikattagutta</td>
<td>East</td>
<td>2.0</td>
<td>300</td>
</tr>
<tr>
<td>2</td>
<td>Gollapalle</td>
<td>South</td>
<td>1.0</td>
<td>500</td>
</tr>
<tr>
<td>2</td>
<td>Kaligiri</td>
<td>South West</td>
<td>1.8</td>
<td>300</td>
</tr>
<tr>
<td>3</td>
<td>Bandapalle</td>
<td>South West</td>
<td>3.1</td>
<td>800</td>
</tr>
<tr>
<td>4</td>
<td>Chinna Kaligiri</td>
<td>SouthWest</td>
<td>2.9</td>
<td>650</td>
</tr>
<tr>
<td>5</td>
<td>Patalapattu</td>
<td>North-West</td>
<td>4.3</td>
<td>750</td>
</tr>
</tbody>
</table>

c) Public buildings, Places of Worship and Monuments: No buildings or places and Monuments are witnessed in the applied QL Area.

d) Indicate any Sanctuary is located in the vicinity of the leasehold: No Sanctuary, eco-sensitive areas etc. are located in the vicinity of the leasehold.

2. ENVIRONMENTAL IMPACT ASSESSMENT:

(a) Land Area Degraded: An area of about 2000m² will be degraded for the working pit; and Roads 150 m².

(b) Air Quality: Road metal & Building Stone mining do to some extent generates dust during drilling and blasting. This would be minimized by
usage of moist clay, sprinkling of water at blasting site and haulage roads. Masks, earplugs and safety goggles will be provided to the workmen at mine to avoid the negative impacts of dust arising.

(c) Water Quality: The subject area is far from industries and as such water is not polluted. The water drawn from bore wells will be supplied to workmen for drinking.

(d) Noise Levels: The QL applied area is quite far from the habitation area situated 1.0 Kms away from Peddakallupalli Village. Noise is anticipated from drilling, blasting and movement of vehicles. As the quantum of mining is on a small scale the noise generation would be well within the limits. Therefore, the noise pollution is expected to be negligible in the area. However, the Lessee will take all precautions during drilling and blasting by providing mufflers.

(e) Vibration Levels due to Blasting: As the proposed drilling is by deep hole drilling to some extent and mostly with tractor mounted compressor and blasting the vibration levels will be maintained to be within the limits.

(f) Water Regime: Mining of road metal will be carried out on top portion of the mound in the applied QL applied area to a depth of 30.0 m and in a closed environment limited to working pit. The mining activity proposed would not intersect water table of the area. The water table is observed to be 50-60 m in the adjacent boreholes of agricultural lands.

(g) Acid Mine Drainage: Not applicable.

(h) Surface subsidence: There will not be any surface subsidence as all the benches and ramp ways will be thoroughly rolled for hard surface.

(i) Socio Economics: Mining of road metal and building stone will create some employment opportunities to local villagers thereby generating income and improvement in livelihood of local villagers and revenue to Government by way of paying royalty.

(j) Historical Monuments: No Historical monuments are located near and around the applied ML area.
(k) **Bio-diversity:** The slopes of the subject area consist of scattered bushes. There is no report of existence of wild animals in this region.

**3. Progressive Reclamation Plan:** Mining activity will be carried out till the completion of state highway project and the worked out pit will be protected with barbed wire and the mined out pit will be used as storage water pit. Hence, Progressive reclamation is not studied and will be Plan need in the first Plan of mining.

**4. Mined out Land:** No mined out land will be formed during this Plan period as mineral is existing much below the proposed workings during this Plan period.

**5. Top Soil Management:** There is no top soil generation from the applied QL applied area as such management does not arise.

**6. Tailing Dam Management:** No tailing dam is required.

**7. Disaster Management and Risk Assessment:** In this area mining does not involve disaster of land etc., except degradation of land. No flooding, subsidence, land slide occur in the region. The Mines Manager will take the responsibility in the event of any untoward incident.

In event of any emergency the Contact person is:

SMT. V.GEETHA  
PROPTX : M/S SRI DHARANI STONE CRUSHERS  
W/O.HARI BABU NAIDU,  
MATAMPALLI(V),  
KALAVAGUNTA(P),  
MURUKAMBATTU(VIA),  
PENUMUR(M),  
CHITTOOR DISTRICT, A.P.  
CONTACT NO. 9000078497

**8. Care and Maintenance during temporary discontinuance:**

An emergency Plan to deal with the situation of temporary discontinuance or incomplete programme due to court order / due to statutory requirements or any other unforeseen circumstance will be drawn by the technical and managerial person to suit the specific situation of this mine. This would be reviewed and modified to suit changing conditions and needs. This would take care of preventing of access to dangerous places, pits and prevent accidental fall in to the
water logged pit of animals and men. Security is also to be looked in to the safety measures placed at various places like firefighting equipment, main switches etc. Security to be deployed at Explosive storage.

The mining is yet to commence. As mining continues till then the question of discontinuance does not arise. However, any untoward incidence happens the safety of the mining area will not be disturbed. Security / Watchmen will be posted at the mine site for watch and ward.

<table>
<thead>
<tr>
<th>Items</th>
<th>Details</th>
<th>Proposed</th>
<th>Actual</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dump Management</strong></td>
<td>Area afforested (Hect.) No. of Saplings Planned Cumulative number of Plants Cost including watch and care during the year</td>
<td>0.565 ha</td>
<td>Nil</td>
<td>No dump is anticipated</td>
</tr>
<tr>
<td>Management of worked out benches</td>
<td>Area available for rehabilitation(specify) No. of saplings Planned in the year Cumulative number of Plants Any other method of rehabilitation(Specify) Cost including watch and care during the year</td>
<td>Nil</td>
<td>Nil</td>
<td>No mineral is being worked from the benches.</td>
</tr>
<tr>
<td><strong>Reclamation and Rehabilitation by back filling</strong></td>
<td>Void available for back filling( LXBXD) pit wise/ slope wise Void filled by waste / tailings Afforestation on the back filled area Rehabilitation by making water reservoir Any other means (Specify)</td>
<td>Nil</td>
<td>Nil</td>
<td>No proposals made as the worked out pit will be utilized as water harvesting pit.</td>
</tr>
<tr>
<td><strong>Rehabilitation of waste land within lease</strong></td>
<td>Area available (hectares) Area rehabilitated Method of Rehabilitation</td>
<td>Nil</td>
<td>Nil</td>
<td></td>
</tr>
</tbody>
</table>

9. Financial Assurance:
Financial assurance can be submitted in any encashable form preferable a bank guarantee from a Scheduled Bank at the rates equivalent to rates prescribed in Rule 27 of MCDR, 2017 for next 5 years period expiring at the end of validity of the document.

The proposed mining operations are by Manual method of quarrying and by shallow drilling and blasting means and hence the cost of reclamation & rehabilitation is calculated as per the provisions of Rule 27 MCDR, 2017 @ Rs. 2,00,000/- per hectare or part thereof. This amount works out to be Rs.9,700/- for 0.6467 Hectares area.

The minimum financial assurance in the form of Bank Guarantee for Rs.1,00,000/- will have be submitted to the Assistant Director, Department of Mines & Geology, Palamaner at the time of commencement of quarrying.

10.0 FINANCIAL ASSURANCE PROFORMA

The details of area put to use and calculations there off for financial assurance are given in the proforma as below:
# DETAILS OF AREA CONSIDERED FOR COMPUTATION OF FINANCIAL ASSURANCE

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Head</th>
<th>Area put on use at the start of plan (in Ha.)</th>
<th>Additional requirement during the plan period (in Ha.)</th>
<th>Total (in Ha.)</th>
<th>Area considered as fully reclaimed and rehabilitated (in Ha.)</th>
<th>Net area considered for calculation (in Ha.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Area under Mining</td>
<td>0.3592</td>
<td>0.2000</td>
<td>0.5592</td>
<td>0.5592</td>
<td>0.5592</td>
</tr>
<tr>
<td>2</td>
<td>Storage for Top Soil</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>3</td>
<td>Overburden / Dump</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>4</td>
<td>Mineral Storage</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>5</td>
<td>Infrastructure (Workshop, Administrative Building etc..)</td>
<td>----</td>
<td>0.0100</td>
<td>0.0350</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>6</td>
<td>Roads (Within the pits)</td>
<td>----</td>
<td>0.0100</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>7</td>
<td>Railways</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>8</td>
<td>Green Belt</td>
<td>0.0000</td>
<td>0.0525</td>
<td>0.0525</td>
<td>----</td>
<td>0.0525</td>
</tr>
<tr>
<td>9</td>
<td>Tailing Pond</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>10</td>
<td>Beneficiation Plant</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>11</td>
<td>Mineral Separation Plant</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>12</td>
<td>Township Area</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>13</td>
<td>Others</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Retaining Wall</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td></td>
<td>Fencing around the pit (included quarry area)</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td></td>
<td>GRAND TOTAL</td>
<td>0.3592</td>
<td>0.2625</td>
<td>0.6467</td>
<td>0.5592</td>
<td>0.6117</td>
</tr>
</tbody>
</table>
**11. Certificate:**

Certified that the above mentioned points will be taken care in the Mining Plan for Road Metal and Building stone over an extent of 2.000 Hectares (4.94 Acres) in Sy. No. 383/P of Kaligiri Village, Punumur, Chittoor District, Andhra Pradesh.

All statutory organizations, courts etc. have been taken into consideration and wherever any specific permission is required the Lessee will approach the concerned authorities.

All the measures proposed in this Mining Plan will be implemented in a time bound manner as proposed.

**11.1 Plan, Section etc,**

Plans and Sections are submitted along with Mining Plan.

**Date : 04-09-2017.**

**Place : Anantapuramu.**

**Applicant**

G.Eswar Reddy

SMT. V.GEETHA,

**Consultant Geologist & RQP**

G.Eswar Reddy
ANNEXURE-I
FIELD PHOTOGRAPHS

PHOTOGRAPH SHOWING THE QUARRY LEASE AREA & SHEET ROCK FORMATION

PHOTOGRAPH SHOWING THE QUARRY LEASE AREA & SHEET ROCK FORMATION
PHOTOGRAPH SHOWING THE BOUNDARY PILLARS
ANNEXURE-II

PROCEEDINGS OF THE DEPUTY DIRECTOR OF MINES & GEOLOGY, KADAPA
(Present: V.S.N. Sharma, Deputy Director)


Sub:- Mines & Quarries – Quarry Lease for Road Metal & Building Stone over an extent of 2,000 Hectares in S.No.383/P of Kaligiri (V), Penumur(M), Chittoor District for a period of 10 years – Application of Smt.V. Geetha, PropTx:M/s.Sri Dharani Stone Crusher – Granted – Orders – Issued – Reg.

Ref:- 1) Quarry Lease Application Dated Nil of Smt.V. Geetha, PropTx:M/s.Sri Dharani Stone Crusher received on 15-03-2007 in the office of the Asst. Director of Mines & Geology, Chittoor

ORDERS:

Through the reference 1st cited Smt.V. Geetha, PropTx:M/s.Sri Dharani Stone Crusher has filed an application for grant of Quarry lease Road Metal and Building Stone over an extent of 2,000 Hectares in S.No.383/P of Kaligiri (V), Penumur (M), Chittoor District for a period of 10 years. The said application is received by the Asst. Director Mines & Geology, Chittoor on 15-03-2007.

Through the reference 2nd cited the Asst. Director Mines & Geology, Chittoor has reported that the applied area has been inspected by the Assistant Geologist of his office as per inspection report the applied area situated at about 17 KM from Chittoor in Northern Direction. The road connecting through Chittoor- Penumur Cross-Adivipalli Cross-gollapalli cross further connects to the approach road passes to the applied area. The applied area is geological example of emplaced and mobilised formation. The area consisting limited granatoids magmatic group of litho units. Petrology of the area constitutes peninsular gneissic complex. Mineralogically the rock consisting Quartz, Feldspar as essential minerals and mica, hornblende and ferromagnesium minerals as accessory minerals. This is equigranular to inequigranular and medium to coarse granulated. Leucocratic rock with so many strucrural disturbances. The varying lithological features are inter mixing in vertical and horizontal columns with respect to mineralogy, texture, structure, colour, pattern, hardness, toughness, brittleness factors. The structural disturbance like lineations, fractures and exfoliations limits to usage the formation for purposes for Road Metal and Building Stone purpose and may not be useful for Granitic purpose. Old working pit with average measurements of about 300 x 200 x 8; 150 x 150 x 5; 100 x 150 x 3 mts are observed in front of applied area. As per local enqurry, the local people informed; that the workings are took place at the time of construction of N.T.R. Sagar project at Kalavakunta, Penumur Mandal.

The applied area has been surveyed and demarcated by the surveyor of the Asst. Director of Mines & Geology, Chittoor in presence of the applicant. After the survey the area has came to 2,000 Hectares for which the applicant has given consent on the notarized affidavit. The surveyor has further reported that the surveyed area dose not contain any public importance such as buildings, Temples, Roads, Railway lines etc. As per their office records the applied area is not overlapping with any applications applied or granted.

Through the reference 3rd cited the Tahsildar, Pahamsudram Mandal vide his Rr.C/138/2007, dated:31-08-2007 has reported that the applied area is classified as “Gayalu” and issued “No Objection Certificate” in favour of Smt.V. Geetha, PropTx:M/s.Sri Dharani Stone Crusher.

(Contd…2)
Finally the Asst. Director of Mines & Geology, Chittoor has recommended for
grant of Quarry lease in favour of Smt. V. Geetha, Prop: M/s. Sri Dharani Stone Crusher for
Metal and Building Stone over an extent of 2.000 Hectares in S.No.383/P of Kaligiri (V),
Penumur (M), Chittoor District for a period of 10 years.

In view of the above, and based on the recommendations of the Asst. Director of
Mines & Geology, Chittoor a Quarry lease is hereby granted in favour of Smt. V. Geetha,
Prop: M/s. Sri Dharani Stone Crusher for Road Metal and Building Stone over an extent of
2.000 Hectares in S.No.383/P of Kaligiri (Vg), Penumur (M), Chittoor District for a period of 10
years under Rule 13(1) of A.P.M.M.C Rules, 1966, subject to the satisfaction of other terms
and condition of A.P.M.M.C.Rules, 1966 subsequent government orders and executive instructions
issued in the matter from time to time and also subject to the conditions specified in the
appendix enclosed to these orders and also subject to the following conditions.

1. The Grantee should execute the lease deed before the Asst. Director of Mines & Geology,
Chittoor within 90 days from the date of these orders.

2. The Grantee should pay the following amounts before execution of the Quarry Lease deed.
   (a) Dead Rent .............................. Rs.25,000/- per Hectare per annum.
   (b) Land Assessment ...................... At the rate fixed by the Revenue Authorities.
   (c) Cess on Land Assessment .............. 0.37 paisa per rupee of Land assessment.
   (d) Security Deposit ...................... The amount equivalent to Dead Rent.

3. The grantees should pay the Seigniorage for Road Metal & Building Stone to the Department
of Mines & Geology, in advance before dispatching the material from the Quarry Lease area as
under,

   Building Stone/Rough Stone/Road Metal Rs. 45/30
   (Rupees Forty five and thirty only respectively) Per Cmt / MT.

4. The grantees should submit a Notarised affidavit before the Asst. Director of Mines & Geology,
Chittoor at the time of execution, indicating the details of Assets for the purpose of
attachment as per Section-25 of Mines & Minerals (Development and Regulations) Act, 1957.

5. “The Grantee” should pay dead rent and land assessment in Advance in Full before “1st
March” of every year for the Succeeding year, failing which the lease will be terminated.

6. “The Grantee is liable to pay the Income-Tax on Royalty / Seig.Fee as per amendment of
section 206-C of Income-Tax Act, 1961”

7. No explosives shall be used or stored until unless of getting license from the licensing
authority under the Indian Explosives Act-1884.

NOTE:- The grant is liable for cancellation should it be found that it was grossly inequitable or
was made mistake of fact or owing to Mis – representation or fraud or in excess of
authority.

Deputy Director of Mines & Geology,
Kadapa Region, KADAPA.

To

Smt. V. Geetha,
Prop: M/s. Sri Dharani Stone Crusher,
W/o Hari Babu Naidu,
Matampalli (V), Kalavagunta (P)
Muruambattu (via), Penumur (M),
Chittoor Dist

Copy together with record of enquiry is sent to the Asst. Director of Mines & Geology,
Chittoor with a request to take further action in the matter duly obtaining a Notarised Affidavit
from the Grantee with regard to the details of Assets as per the instructions of the Director of
Mines & Geology, Hyderabad contained in Memo No. 24212 / PPC.2 / 98 Dated: 17-09-1998 and
also permanent address details through an affidavit.

Copy submitted to the Director of Mines & Geology, Hyderabad for favour of information.
ANNEXURE-III

GOVERNMENT OF ANDHRA PRADESH

PROCEEDINGS OF THE ASST. DIRECTOR OF MINES & GEOLOGY, CHITTOOR

(Present: - Dr. K. Purnachandra Rao, M.Sc., (Tech) Ph.D., Asst. Director)

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Proceedings No. 1464/Q/2007 Date. -04-2008


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ORDER:-

The Deputy Director of Mines & Geology, Kadapa vide reference cited has granted a Quarry Lease in favour of Smt. V. Geetha, Prop: M/s. Sri Dharani Stone Crusher over an extent of 2,000 Hectares in S.No.383/P of Kaligiri (Vg). Penumur (M) Chittoor District for a period of 10 (Ten) years.

In view of the above, the permission is hereby accorded to Smt. V. Geetha, Prop: M/s. Sri Dharani Stone Crusher to work for Road Metal & Building Stone over an extent of 2,000 Hectares in S.No.383/P of Kaligiri (Vg). Penumur (M), Chittoor District for a period of 10 (Ten) years with effect from 1.4.2008 to 30.3.2018, subject to the satisfaction of all other terms and conditions laid down in A.P.M.M.C.Rules, 1966 and subsequent Government order and executive instructions issued from time to time.

The Lessee should observe all the covenants of lease deed in form ‘G’ and terms and conditions given in the appendix enclosed to this deed.

The Lessee should maintain all the records and accounts and submit monthly / quarterly / annual returns to the Director of Mines and Geology, Hyderabad. Deputy Director of Mines & Geology, Kadapa and Asst. Director of Mines & Geology, Chittoor as prescribed in A.P.M.M.C.Rules, 1966, so as to reach the respective authorities not later than 7th day of succeeding month to which they relate.

Asst. Director of Mines & Geology,
Chittoor.

To,
Smt. V. Geetha,
Prop:M/s. Sri Dharani Stone Crusher,
W/o Hari Babu Naidu,
Mattamapalli (V), Kalavagunta (P),
Murukambattu (via), Penumur (M),
Chittoor Dist

Received copy
V. Geetha

DESPATCHED On: 23-4-2008
From 23-4-2008 to 23-4-2008

Contd........(2)
GOVERNMENT OF ANDHRA PRADESH
DEPARTMENT OF MINES AND GEOLOGY

CERTIFICATE OF REGISTRATION
AS QUALIFIED PERSON TO PREPARE MINING PLAN
[Under Rule 14(2) of Granite Conservation and Development Rules 1999]

Sri G. ESWAR REDDY, S/o G. Pakkiri Reddy, R/o No: 13-2-155-1,
Pavananilayam, Near R.T.C. Bus Stand, Ananthapuram, whose photograph and
signature is affixed herein above, having given evidence of his qualification and
experience is hereby granted renewal of recognition under rule 14(2) of
Granite Conservation & Development Rules 1999 as Qualified Person to
prepare Mining Plan.

Registration Number is:

RQP/DMG/AP/07/2014

This Recognition is valid for a period of 10 years with effect from
22.12.2014

This certificate will liable to be withdrawn/cancelled in the event of
furnishing the wrong information/documents in the Mining Plan submitted by
him.

Place: Hyderabad
Date: 22.12.2014

Director of Mines & Geology
Govt. of A.P., Hyderabad
CERTIFICATE OF RECOGNITION AS QUALIFIED PERSON
(Under Rule 22C of Mineral Concession Rules, 1980)

Shri GEDEE ESWAR REDDY, S/o Shri Gedde Pakkiv Reddy, R/o.13-2-155-1, Pavana Nilayam, Shirdi Nagar, Anantapur - 515 001 (AP), whose Photograph and signature is affixed herein above, having given satisfactory evidence of his qualifications & experience is hereby RECOGNISED under Rule 22C of the Mineral Concession Rules, 1980 as a Qualified Person to prepare Mining Plans.

RQP/HYD/302/2013/A

This recognition is valid for a period of 7 years ending on 30.6.2020.

This certificate will liable to be withdrawn/cancelled in the event of furnishing the wrong information/documents in the Mining Plan submitted by him.

Date: 17.7.2013.

Regional Controller of Mines
Hyderabad Region