

APPLICANT

DESIGNER ROCKS PVT LTD  
HYDERABAD

MINING PLAN FOR COLOUR GRANITE IN SURVEY NO 1  
(EXTENT 5.00 HECTARES) OF ADDUKONDA VILLAGE,  
TEKKALI MANDAL, SRIKAKULAM DIST, ANDHRA PRADESH

APPROVED

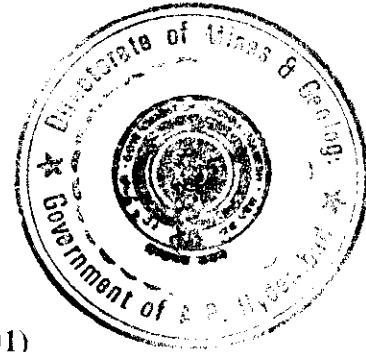
PREPARED BY

A.D.GIDEON

(RQP /DMG/HYD/O04/2001)

(RQP/HYD/227/2003/A)

H.No 1-6-227/16/5, RAMNAGAR,  
ZAMISTANPUR, HYDERABAD -500044  
ANDHRA PRADESH



GOVERNMENT OF ANDHRA PRADESH

Letter No. 40602/R1-1/MP/2005

Dated. 7.7.2006

From :  
Sri. P. Rajasekhar Reddy, M.Sc.,  
Joint Director of Mines & Geology  
C/o Director of Mines and Geology  
Hyderabad.

To  
M/s Designer Rocks (P) Ltd.,  
201, Athena Apartments  
Begumpet  
Hyderabad --- 500 016

Sir,

Sub:- Approval of Mining Plan - quarry Lease for Colour Granite over an extent of 5.000 Hects in S.No. 1 of Addukonda Village, Tekkali Mandal, Srikakulam District in favour of M/s Designer Rocks (P) Ltd., - Mining Plan Approved - Regarding.

Ref:- 1. D&G, Ir.No. 40602/R1-1/MP/2005, dt. 3.7.2006  
2. Ir. dt. 6.7.2006 along with 5 sets of Mining Plans from M/s Designer Rocks (P) Ltd.,

\*\*\*

In exercise of the powers conferred as per Sub-Rule 5 of Rule 17 of Granite Conservation and Development Rules 1999, I here approve the Mining Plan for colour Granite over an extent of 5.000 Hects in S.No. 1 of Addukonda Village, Tekkali Mandal, Srikakulam District in favour of M/s Designer Rocks (P) Ltd.,. This approval is subject of the following conditions:-

- 1) This Mining Plan is approved without prejudice to any other Laws applicable to the mine area from time to time whether made by the Central Government, State Government or any other authority.
- 2) It is clarified that this 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 or the Mineral Concession Rules, 1960 and any other Laws including the Forest Conservation Act, 1980.
- 3) The approval authority does not owe the responsibility with regard to assessment of the reserves, erroneous certification made by the ROP if any and approval is tentative subject to modifications on new findings at a later date as per the provisions of (23R & 22D) of MCR, 1988, since the evaluation is done on random basis.

Encl (AMP - 2Nos)

Yours faithfully  
Sd/- P. RAJASEKHAR REDDY  
JOINT DIRECTOR OF MINES & GEOLOGY

Copy to Sri A.D. Gideon, ROP  
H.No. 1-6-227/16/5  
Kannagar, Zamistanpur  
Hyderabad --- 500 014

Copy submitted Director of Mines, ~~IB, Sultanbazar~~ Safety, Sultanbazar, Hyderabad.  
Copy to the Regional Controller of Mines, IB, Sultanbazar,  
Copy to the Zonal Joint Director of Mines and Geology, Visakhapatnam along with A.M.P.

//A.c.I.b.c.//

G.V. Kumari  
Superintendent

## INDEX

NO	CONTENTS	PAGE NO
1.0	INTRODUCTION	01
2.0	GENERAL	01
3.0	GEOLOGY AND RESERVES	03
4.0	MINING	06
5.0	STORAGE AND HANDLING OF EXPLOSIVES	09
6.0	WASTE MANAGEMENT PLAN	09
7.0	DRESSING	10
8.0	DESCRIPTION OF PROCESING PLANT	10
9.0	MARKET ANALYSIS	10
10.0	ENVIRONMENTAL MANAGEMENT PLAN	10
11.1	EMPLOYMENT POTENTIAL	14
11.2	SITE SERVICES	14
12.0	OTHER INFORMATION	14

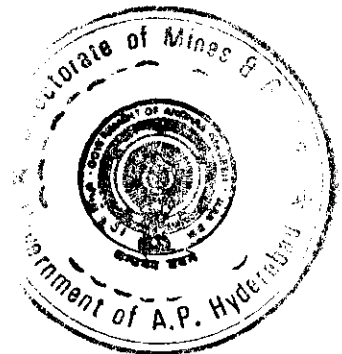


PLATES

S.NO	PLATES	NO
01	KEY CUM LOCATION PLAN	I
02	MINING LEASE SKETCH	II
03	SURFACE GEOLOGICAL PLAN	III
04	GEOLOGICAL SECTIONS	IIIA
05	FIVE YEAR DEVELOPMENT PLAN	IV
06	FIVE YEARS DEVELOPMENT SECTIONS	V
07	ENVIRONMENTAL MANAGEMENT PLAN	VI

**ANNEXURE LIST**

- |    |              |   |
|----|--------------|---|
| 01 | ANNEXURE - 1 | Proceeding no 34995/R1-3/ 2002 Dated 26-10-2002 |
| 02 | ANNEXURE - 2 | Proceeding no 4803/Q/2002dated 28-10-2002       |
| 03 | ANNEXURE - 3 | Notice of ADMG                                  |



DECLARATION

Certified that the Mining plan in respect of Colored Granite over an extent of 5.0 Ha in Survey No 1 of Addukonda Village, Tekkali Mandal, Srikakulam District in the State of Andhra Pradesh has been prepared in consultation with me. I have understood its contents and agree to implement the same in accordance with law

for M/S DESIGNER ROCKS PVT LTD

  
S.SAMBESH RAO  
Managing Director

Date:05-07-2006



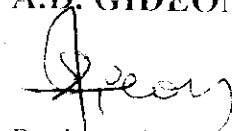
**CERTIFICATE**

Certified that the provision of Mines Act, Rules and Regulations made there under have been observed in preparation of the Mining Plan in respect of Coloured Granite over an extent over an extent of 5.0 Ha in Survey No.1 of Addukonda Village, Tekkali Mandal, Srikakulam District in the State of Andhra Pradesh. Wherever specific permissions are required, the applicant will approach the Director General of Mines safety.

It is also Certified that the information furnished in the Mining plan is true and correct to the best of my knowledge.

Date: 05-07-2006

**A.D. GIDEON**



Registered Qualified Person  
(RQP/DMG/HYD/004/2001)



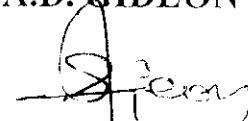
## CERTIFICATE

This is certify that the provision of Granite Conservation Development Rules 1999, have been observed in preparation of the Mining Plan in respect of Coloured Granite over an extent over an extent of 5.0 Ha in Survey No.1 of Addukonda Village, Tekkali Mandal, Srikakulam District in the State of Andhra Pradesh, and wherever specific permissions are required, the applicant will approach the concerned authorities of the Director of Mines and Geology Department of Hyderabad.

It is also Certified that the information furnished in the Mining plan is true and correct to the best of my knowledge.

Date: 05-07-2006

**A.D. GIDEON**



Registered Qualified Person  
(RQP/DMG/HYD/004/2001)



MINING PLAN FOR COLOUR GRANITE OVER AN EXTENT OF 5.00 HECTARES IN S.NO 1, OF ADDUKONDA, TEKKALI (M), SRIKAKULAM DIST, A.P.

## INTRODUCTION

M/S DESIGNER ROCKS PVT LTD was granted a Quarry Lease for colored granite in S. No 1, of Addukonda village, Tekkali mandal Srikakulam District over an extent of 5.00 Hectares for a period of 20 years vide proceeding no 34995/R-1/ 2002 dated 26-10-2002 by the Director of Mines and Geology, Hyderabad under rule 12 (5) (a) (i) of Minor Mineral Concession Rule, 1966. The lease was executed on 28-10-2002 and hence the quarry lease is valid up to 27-10-2022. The work order is issued by the Assistant Director of Mines and Geology, Srikakulam, A.P. vide proceeding no 4803/Q/2002 dated 28-10-2002. The ADMG vide his letter has directed the Lessee to submit the Mining plan under rule 17(1) of GCDR, 1999. The work of preparation of Mining Plan was undertaken by the A.D. GIDEON, RQP and is prepared as per guide lines circulated by the Director of Mines and Geology, Government of A.P and in conformity with the Granite Conservation and Development Rules, 1999.

### 1.0 GENERAL

a) Name of the applicant with complete address:

DESIGNER ROCKS PVT LTD  
201, ARCHANA APARTMENTS  
BEGUMPET, HYDERABAD 500016 A.P

This Mining Plan is Approved subject to Conditions/Stipulations Indicated in the Mining Plan Approval Letter No.....  
40602/R-1/MP/2005, dated 07-07-2006.

b) Status of the Applicant:

M/S DESIGNER ROCKS PVT LTD, is a private limited company incorporated under Companies Act 1956 on 29-5-1998 with Sri S. Sambesh Rao as Managing Director. The company is an established Granite miner cum Exporter with major working Granite quarries existing in Srikakulam and Nizamabad Dists of A.P. The company has not only highly experienced professional, but also have required machinery and are financially sound.

c) Mineral or minerals the Applicant wants to Mine : COLORED GRANITE

d) Period of Quarry Lease Granted: 20 Years

**APPROVED**

*P. Rajasekhar Reddy*  
Joint Director  
Dept. of Mines and Geology.  
Govt. of A.P. Hyderabad.





e) Name, Address and registration no of the RQP who prepared the mining plan:

A.D GIDEON,  
M.Sc.  
H.No 1-6-227/16/5  
Ramnagar, Zamistanpur  
Hyderabad -500044A.P  
Phone 98484-64408  
(RQP/DMG/HYD/004/2001)  
(RQP/HYD/227/2003/A)

## 2 LOCATION AND ACCESSIBILITY:

a) The subject area lies in the Survey of India Topo sheet No 74 B/5. It is located on North latitude -85° 15' 30" and E longitude 18° 37' 30" (Plate I)

Dist & State	Mandal	Village	S.No	Area in Hectares	Ownership
Srikakulam Andhra Pradesh	Tekkali	Addukonda	1	5.000	Govt. land

### b) Boundaries:

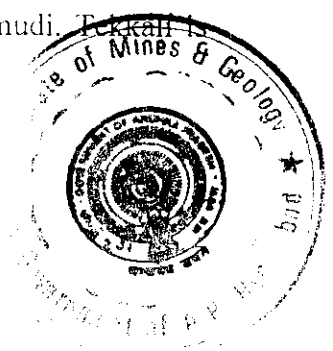
The applied area is bounded in the North by the S.No 1, on the South by V.no 77, Meelasathivada, in the East by the Q.L of M/S Dhanalaxmi Granites and in the West by the S. no 1.

### c) Accessibility:

The subject area is located at a distance of 12 Kms from Tekkali on the Tekkali - Parlakamudi road. After traveling about 5 Kms on that road a diversion towards north has to be taken from the village Sitharamapuram. From here the area is located at a distance of 7 kms via Borugupeeta village. It can be approached for the first 5 kms by a good metalled road and the balance by a all weather road.

### d) Infrastructure:

Climate : Moderate  
Terrain : Flat terrain with some hillocks  
Water : Sufficient ground water is available  
Electricity : About 1000 mts from the area  
Roads : The area is connected by good road for 5 kms and the balance by a katcha road. It is located at a distance of about 12 Kms from Tekkali Town on the Tekkali-Parlakamudi. Tekkali is located on the Calcutta-Chennai Highway.



Railway	:	Nearest railway station is Tekkali about 1 kms from Tekkali town on the narrow gauge line and Naupada at a distance of about 9 kms from Tekali town on the broad gauge line.
School, bus & Phone	:	Tekkali Town had a school, Junior and a Degree college.
Hospital	:	Tekkali and Srikakulam
Airport	:	Visakhapatnam
Camping	:	Sirkakulam

### 3.0 GEOLOGY AND RESERVES

#### 3.1.1 Physiography/ Topography

The Q.L area consists of a undulating terrain and comprise of hillock Migmatised Gneiss having a general trend of NE-SW direction. The quarry lease is occupied by boulders and sheet rock forming ridges. The maximum Relief of the hillock is 39 m and assumed bench mark is taken as 100m. The hillock has a maximum elevation of 139 m in the northern part of the area and is 100 m in the southern part. Elongated boulders are noticed at the top with the hill gradually raising towards north. The drainage of the area is controlled by a net work of streams which act as feeders to the tanks present in the area. The tanks along with the bore wells and wells constitute the main source of water for agricultural and drinking purpose. The water table is located at a depth of about 20-30 m from the ground level. The region has a tropical humid climate with the maximum and minimum temperature varying from 28-38° in summer and 25-15° in winter. The average rainfall is around 900-1000 mm and the monsoon is from June to September. The occupation of the people in of the region is agriculture. No major rivers are present in the area. The drainage is of dentritic pattern.

#### 3.1.2 Regional Geology:

In and around Srikakulam, Blue granite is extensively quarried for the past 15 years or so. It is a part of Ghat group of rocks consisting of Chornokites, Khondalite and Granitoids a variety of hybrid rock formed by the interaction of Intrusive granite into the Khondalite. The Eastern ghat group attains a maximum thickness in he Ganjam -Cuttack tract. It occurs as ridges trending NE-SW. The eastern ghat belt exhibits high grade metamorphism as evidenced by the presence of Garnet and Silliminite. The Chornokite shows intrusive relation towards Khondalite and has itself under gone post migmatic changes. Felspathic bands are common and are due to Granitisation.

#### 3.1.3 Geology of the area:

The area was mapped in detail and the geology is incorporated and is enclosed as plate no -III The terrain in and around the area is of undulating in nature. The area on the South side is covered by a thin soil cover along the periphery of the area. But major portion of the area is occupied by big boulders of granite followed by a sheet rock. The main rock exposed in the area consists of Migmatised Chornokite. The size of the boulders range from 0.5 cbm to 10 cbm. Two set of joints are observed, one is parallel and the other



perpendicular to strike direction. They are widely spaced and are useful in splitting big blocks from the mother rock. The rock on physical examination is malanocratic, medium grained, massive and compact. The bluish or grayish color is imparted by blue quartz and grey feldspar. The other accessory minerals present are biotite and garnet. The rock exhibits a wavy structure in few boulders and gneissic in some of them. The rock at places is intruded by quartz vein and feldspar band. The weathering extends to a depth varying from few inches to a foot in some areas. Megascopic and polished samples indicates that the rock takes good polish and exhibits fine texture. The over all appearance of the rock is bluish and hence is commercially known as Blue Granite.

**3.1.4 Lithounits Present in the area:** The main litho unit present in the area is Migmatized Charnokite in the form of boulders and sheet. The colour is dark blue in some places and light blue in some. The minerals present are Silliminite, Garnet and Quartz.

### **3.1.5 Exploration :**

#### **a) Already Carried Out**

- a) Preliminary study of the visual examination of granite texture.
- b) Collection of surface sample and subjecting them to cutting and polishing
- c) Study the marketability
- d) Preparation of land by leveling to enable the movement of the machinery
- e) Opening of trail pits
- f) Drilling and splitting of primary blocks in to sized blocks and making them fit for examination by the buyers
- g) Present Status: The area was initially mapped and geology was plotted on the geological plan. Subsequently, surface samples were collected and based on the market response mining was started. The area is being worked for the past 8 years and the material is well accepted in the domestic and international market.

b) **Future Programme:** Since the deposit is proved in detail no further exploration is required.

### **3.1.6 Geological Plan:**

The area was surveyed by a theodolite and contour base plan was prepared on the scale of 1:500. On this plan geology was mapped and plotted ( plateIII).

**3.1.7 Geological Sections:** The contour plate enabled the preparation of Geological cross sections and is enclosed as plate IIIA.



### 3.2. GEOLOGICAL RESERVES – Category – wise

Based on the information obtained from the boulders and exploratory openings, the 'proved' category reserves may be estimated down to 15 m depth from the surface. The exploratory openings have reached a depth of about 5 m the quality of rock is also not likely to show much variation within this depth as shown in the exploratory face. From the base of the proved zone, a 5 m depth is considered for the estimation of the reserves under the 'probable' category. The quality of granite is likely to be the same as one in the proved zone. Finally a 5 m, zone below the probable zone is considered for estimation of reserve under the 'possible' category. The reserves are estimated by volumetric method. It consists of calculating the area and multiplying it by thickness to arrive at the volume. The reserves computed on the basis of the above consideration are given in Table-3.1

Table 3.1 Category wise Insitu Geological Reserves of Color Granite

Category	Type of Deposit	Average length in m	Average width in m	Thickness in m	Volume in cbm LxWxD	Recovery 25% in cbm	Wastage 75% in cbm
PROVED	Boulders and sheet	270	185	15	7,49,250	1,87,312.50	5,61,937.50
PROBABLE	DO	270	185	5	2,49,750	62,437.50	1,87,312.50
POSSIBLE	Sheet	270	185	5	2,49,750	62,437.50	1,87,312.50
<b>TOTAL</b>					<b>12,48,750</b>	<b>3,12,187.50</b>	<b>9,36,562.50</b>

Under the proved category the total ROM is estimated as 7,49,250 cu m, under the probable category it is 2,49,750 cum and under the Possible category it is 2,49,750 cum. Therefore the total insitu deposit under the three category is 12,48,750 cum and considering a recovery of 25% the estimation of recoverable blocks 3,12,187.50 and the wastage is 9,36,562.50 cum.

### 3.3 Mineable reserves and life of the mine:

The estimation of mineable reserves are arrived at by taking into consideration the insitu proved reserves only, which are 7,49,250 cum and the company has mined 1,406,670 cum till 31-3-2005. The balance available reserves are estimated at 7,47,843.33 cbm taking a recovery percentage of 25% the mineable reserves are 1,86,960.8325 cum and 5,60,882.4975 cbm will be the waste.

Reserves available as on 31-3-2005: 1,86,960.8325 cbm.

Reserves blocked under the buffer zone: (-) 73,687.500

Mineable reserves available as on 31-2-2005: 1,13,273.3325 cbm



Considering an average annual production of 1665 cbm, the life of the mine is estimated at  $1,13,273.3325 / 1665 = 68$  years.

#### 4.0 MINING

In view of the shallow nature of the deposit, open cast mining method shall be adopted in a semi mechanized manner.

##### 4.1.1 Method of Quarrying:

Semi -Mechanized quarrying method are to be followed involving the following Machinery as mentioned in 4.1

Table 4.1 Showing the Machinery to be deployed in the quarry

Machinery	Quantity	Nature of Work
Excavator	1 no	The excavator to be employed for the removal of the over burden, small boulders, cut boulders and waste rock
Tipper	2 no	For transportation of the overburden and blocks
Compressors	4 no	For drilling holes for splitting
Jack hammers	12 no	For drilling holes
Chain pulley block	1-10 ton	For lifting small blocks
Crane	1-10 ton	For loading the blocks in to the trucks

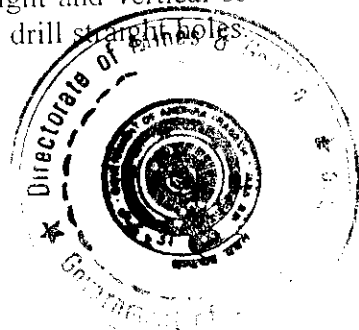
##### TOOLS:

Drill Rods of size ranging from 2.5 feet to 10 feet long  
Feather and wedges for splitting the holed rock in a linear direction  
Grinding Wheels for grinding the diamond bits of the rods  
Wire net, Wire rope, chain 50mm, and other spares

##### 4.1.2 METHOD OF DELINEATION

Several methods of delineation can be carried out and the prominent among them is mentioned below.

**Drilling and using Feather and Wedges:** Once the boulder is freed by removing the soil and waste rock surrounding it, a series of holes are drilled by compressed air using Jack Hammer at a regular interval of 15-30 cm depending on the size of the boulder, the depth of the hole depends on the height of the boulder and the holes are drilled up to the bottom leaving about a foot at the base. The holes have to be perfectly straight and vertical so that the vertical split is obtained. Line drilling machine can be used to drill straight holes.



Feather and wedges are inserted into the holes and hammered continuously applying uniform pressure and the boulder splits vertically. Similarly the dressing is done and the boulder is given a rectangular shape. All the defects are avoided during the dressing stage.

#### 4.1.3 DETAILS OF PRODUCTION SO FAR MINED FROM THE BEGINNING OF THE QUARRY

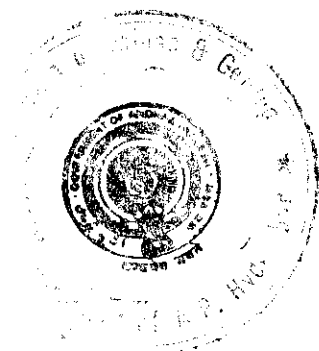
Year	Machine Deployed	Labour Employed	Production in cum	Despatches in cum	Size wise recovery of block %
2002-03	Compressor and excavator	15	157.193	157.193	15%
2003-04	Excavator, Compressor Crane & Tippers	30	564.523	564.263	25%
2004-05	Do	30	684.954	684.954	25%
<b>TOTAL</b>			<b>1,406.670</b>	<b>1,406.410</b>	

#### 4.1.3 YEAR WISE DEVELOPMENT AND PRODUCTION FOR THE FIRST FIVE YEARS.

**1<sup>ST</sup> Year:** Orientation of the bench will be in the N-S direction and so will be the advancement. The length is taken as 30 m, the width as 25 m and bench height as 6 m. The annual excavated material is calculated 4,500 cbm and considering a recovery of 25 % it is planned to produce 1125 cbm of saleable blocks and 3375 cbm of waste during this year. The top RL will be 124 m and the bottom RL will be 118m.

**2<sup>ND</sup> Year:** Orientation of the bench will be in the N-S direction and so will be the advancement. The length is taken as 40 m, the width as 30 m and bench height as 6 m. The annual excavated material is calculated 7200 cbm and considering a recovery of 25 % it is planned to produce 1800 cbm of saleable blocks during his year and 5400 cbm of waste. The top RL will be 118 m and the bottom RL 112m.

**3<sup>RD</sup> Year:** Orientation of the bench will be in the N-S direction and so will be the advancement. The length is taken as 40 m, the width as 30 m and bench height as 6 m. The annual excavated material is calculated 7200 cbm and considering a recovery of 25 % it is planned to produce 1800 cbm of saleable blocks during his year and 5400 cbm of waste. The top RL will be 106 m and the bottom RL 100m.



4<sup>TH</sup> Year : Orientation of the bench will be in the N-S direction and so will be the advancement. The length is taken as 40 m, the width as 30 m and bench height as 6 m. The annual excavated material is calculated 7200 cbm and considering a recovery of 25 % it is planned to produce 1800 cbm of saleable blocks during his year and 5400 cbm of waste. The top RL will be 124 m and the bottom RL 118m.

5<sup>TH</sup> Year: Orientation of the bench will be in the NS direction and so will be the advancement. The length is taken as 30 m, the width as 40 m and bench height as 6 m. The annual excavated material is calculated 7200 cbm and considering a recovery of 25 % it is planned to produce 1800 cbm of saleable blocks during his year and 5400 cbm of waste. The top RL is 112 m and the bottom RL 106m.

The proposed production of ROM and Marketable blocks are shown in the table 4.1  
Table 4.1 Projected Production of ROM and Marketable blocks during the first plan period

Year	Section	Area for mining in m	Volume in cbm	Recoverable blocks (25%)	Wastage 75 % in cbm
I	A-A1	30x25x6	4500	1125	3375
II	A-A1	40x30x6	7200	1800	5400
III	A-A1	40x30x6	7200	1800	5400
V	B-B1	40x30x6	7200	1800	5400
V	B-B1	30x40x6	7200	1800	5400
TOTAL			33,300	8,325	24,975

The total ROM for the first five year is estimated at 33,300 cbm and the recoverable blocks of 8,325 cbm. The waste generated during this period will be 24,975 cbm.

#### 4.2 DRILLING

Drill hole pattern will be uniform single lined pattern, equidistance holes from 0.33 mtrs to 0.75 mtrs, 4.5 mtrs in depth.

Drilling Parameter

Drill hole diameter - 34mm

Spacing depends upon the size of the boulder, in general it 15 cms from hole to hole for better splitting.

#### 4.3 HANDLING THE BLOCKS WITHIN THE QUARRY

Since the size of the boulder is big therefore it has to handled by a crane. The blocks will be dressed at the pit mouth and after checking the quality loaded in the tipper and transported to the stockyard. The waste will loaded into the tippers and transported to the dump yard. The size of the block produced from the quarry may vary 60-350 cm in length, 40-200cms in width and 60 -180cms in height. Hence the existing crane and excavator are sufficient to handle the blocks within the quarry.



#### 4.4 TRANSPORTATION OF BLOCKS FROM QUARRY TO YARD AND DESTINATION

Dressing of the blocks will be done at the pit mouth and are transported to stock yard by the existing 2 tippers are sufficient for handling the dressed blocks and for carrying the waste to the dump yard. The dressed blocks will be transported to the various destination by hired trucks.

#### 5.0 STORAGE AND HANDLING OF EXPLOSIVE

Since there is no overburden and the boulders are exposed near the surface, the boulders can be easily dislodged and hence the requirement of explosive will be very less or negligible. Hence, there is no need to store the explosive in the quarry. If required the blasting can be given on contract to the licensed contractor who will bring the necessary explosive in the van and carry out the work under the supervision of a qualified blaster.

#### 6.0 WASTE MANAGEMENT

##### 6.1 to 6.3 Solid Waste:

During the five years period the total quantity of waste likely to be generated is 24,975 cum. It consists of granite blocks of various sizes, shapes and dimension. Soil component will be minimal but will be stacked separately from the mine waste. It is estimated that about 5,60,882.4975 cbm of waste will be generated during the entire life of the mine.

Some of the material from the waste may be sorted out and used for making small blocks known as 'khandas' to be used by the local unit for making tiles. The market for tiles is good at the moment and they will offer a better substitute for marble in terms of price and quality. Some rejected and unsorted material may be used in the civil engineering projects in the vicinity of the area. The waste material can also be crushed into smaller sizes and can be used as road metal.

The waste generated during the five years may be dumped in the zone separately reserved for dumping in the North East part of the area, as the area is proved to be devoid of good defect less material. The dumps will have to designed in such that it will have slopes equal to the angle of repose of such material. Drains have to provided and the dump terraced. Garland drains have to be sunk along around the leading edge of the dump and trees have to be grown to arrest the run off of rain water.

##### 6.4 LIQUID WASTE

The liquid waste include mainly run off water during monsoon months from the quarry and waste dumps. The rain draining the freshly exposed rocks fragments and dust in the quarry and dump is susceptible for incorporating suspended solids and toxic elements. Such water laden with suspended solids may affect the fertility of the soil in the agricultural land as well as result in the formation of silt blankets on the water bodies.





The silt content may reach the major rivers in the region. Seepage of such water down to the water table may cause pollution to the ground water.

In order to avoid this it would be necessary to make the water leaving the quarry and dump site silt free. Since the granite is free from such minerals, which contribute toxic elements to the water the problem is not there.

The silt leaving the quarry can be arrested by constructing check dams at points where the water leaves the quarry. Siltation tanks can also be constructed so that the silt is trapped in them. The water leaving the dumps shall also be made silt free by constructing garland canal along the base of the dump.

## 7.0 DRESSING

The rough blocks of black granite will be subjected to dressing at the pit mouth itself. Jack hammers along with compressed air is used to drill holes at 15 cms interval will split the block by using feather and wedges and applying uniform pressure by hammering on top of the offsets. Then the blocks are brought into rectangular shape by hammer and chisel.

## 8.0 DESCRIPTION OF GRANITE PROCESSING PLANT:

The applicant intends to export dressed raw blocks and supply the blocks to local processing units. The applicant does not possess a processing plant at the moment.

## 9.0 MARKET ANALYSIS:

The company during the mining operation had produced and got some good order from the domestic as well as International market. The bluish color with wavy pattern is very pleasing in appearance, takes good polish and has a well defined pattern. It is expected that the demand for this material grow in near future. The company has already got some purchase orders from various importers like MAGTI, and INBRA. The company is capable of maintaining time schedule for delivery of the material in the international market.

## 10.0 ENVIRONMENTAL MANAGEMENT PLAN

### 10.1 Base Line Information

#### (i) Existing land use pattern:

The land within 5 kms of the area is characterized by flat undulating terrain interspersed with isolated hills. The land use pattern is as given below.

Reserve Forest: 25%  
Surface Water: 10%  
Built in Area: 15%  
Hilly Tract: 25%  
Agriculture Land: 25%



**(ii) Water Regime**

The water regime in the area is marked by seasonal streams and tanks of different sizes and shapes. Ground Water regime is marked by water table 20-25 m below the surface. The tanks in the area are feed by the seasonal streams in the rainy season.

**(iii) Flora and Fauna**

Vegetation in the area is scanty and is mainly in the form of thorny bushes and small shrubs, some trees are present. Bear, Foxes, Peacocks and Snakes are reported to be present in the area.

**(iv) Climatic Conditions**

The region is characterized by hot and oppressive summer, mild winter and seasonal rainfall. The summer is from March to May with a maximum temperature reaching 42° c, the monsoon is from July to September and the winter if from October to March where the minimum temperature is between 15-20°C.

**(v) Human Settlement**

The important villages present in the vicinity of the area are Sitaramapuram, Tirlangi, Borugupeta, Sattivada, Ramakrishnapuram and Venkatapuram. The main occupation of the people is agriculture and working as agricultural labour.

**(vi) Public Building, Places of Worship and Monuments:**

No Public building of importance, place of worship and Monuments exist in the area

**(vii) Quality of Air and Water**

The air in this region is unpolluted as there are no polluting establishments within a radius of 10kms. The water from the bore wells and wells is potable.

**(viii) Does the area falls under notified area under water (prevention and Control of polluion) Act,1974: NO**

**10.2 ENVIRONMENTAL IMPACT ASSESSMENT STATEMENT**

a) **Land Degradation:** Due to this small scale mining activity the land degradation will be very less. It is estimated that about 1.5 Ha of land will be used for mining purpose. The top soil generated, if any, will be stored separately and can be used for plantation purpose.

b) **Water Regime:** The impact of mining operation will have very little impact on the water regime, surface as well as ground water. Any impact on the water will be in the monsoon season as the water leaving the quarry may be silt ladden and the same may be deposited in the water bodies. The seepage of rain water with dissolved toxic element may seep into the ground and pollute the ground water. Since the toxic element concentration in the granite is very low there is no chance of polluting the ground water.

c) **Water Quality:** The quality of surface and ground water is good and unpolluted. The water is used for drinking, agricultural and plantation purpose.



(d) **Ambient Air Quality:** Due to proposed small scale activity of mining involving drilling, movement of machinery and vehicles etc the contribution of dust to the air may be minimal. The ambient air quality will remain unaffected and within permissible limits.

(e) **Noise Levels:** The noise generated by the machinery and vehicles as well as by drilling operation will be minimal. The machinery will be maintained well. The noise levels are well below the prescribed limits of 90 dB.

(f) **Ecological Disturbance:** There will be hardly any impact on the ecology by this small scale mining operation.

(g) **Miners Health:** Respirators, ear plugs and goggles will be provided to see that the health of the miner is not affected.

(h) **Socio Economic Conditions:** This operation will have a positive impact on the socio economic condition of the people of the region, as there will be some employment generation.

(i) **Vibration Levels:** As the drilling and blasting will be minimal using only low explosives, if required. There will be no ground vibrations.

(j) **Historical Monuments:** No historical Monuments are present in the vicinity of the area.

### 10.3 ENVIRONMENTAL MANAGEMENT PLAN

(i) **Storage and Preservation of Top Soil:** Soil is almost nil in the area and what ever soil is recovered will be stored separately.

ii) **Year wise reclamation of land effected by mining activity during the five years period:** No reclamation of land is proposed during the five year period.

(iii) **Afforestation :** Each year some part of the barrier zone will be subjected to afforestation and care will be taken to protect the sapling. Fruit growing trees are proposed to planted. The table no 5.1 shows the afforestation plan.

Table no -5.1 Showing Programme of afforestation, year wise for the five year period.

YEAR	Name of the Plant	No of Plants	Area Spacing	Area Covered In Sq.Mts
I-Year	Mango	17	3x3 mts.	150
II-Year	Gauva	17	3x3 mts	150
III-Year	Mango	17	3x3 mts	150
IV-Year	Mango	17	3x3 mts	150
V-Year	Mango	17	3x3 mts	150
<b>Total</b>		<b>85</b>		<b>750</b>



(iii) **Measures for Dust Suppression:** The roads, loading point and other dust generating areas will be sprinkled with water especially during dry season. Dusk masks will be provided to the workers in the dressing section and dust collectors in the drilling section.

(iv) **Measures to Minimize Noise and Vibration:** The noise level will be very limited and well under the prescribed limits. The vehicles and machines deployed in the quarry will be well maintained so that the generation of noise is minimal and within the prescribed limits i.e.90 db.

(v) **Stabilization of the dump yard:** Waste dump yards are proposed in the Eastern and Western end of the deposit. The dumps will have angle of repose so that no creeping of material will occur. The dead end will be subjected to vegetation by growing grass and bushes. Garland canal is proposed to be dug around the dump and plantation will be taken up in this site.

(vi) **Treatment and Disposal of Waste water:** The water draining the the dump will be channeled through a single point where a siltation tank will be dug. The silt carried from the quarry face will be deposited in this siltation tank and silt free water will be passed out into the surrounding environment. No treatment of waste water is required in this case as there is no chemical activity is involved during the production and hence no treatment of waste water is required.

(vii) **Measures to control erosion/ sedimentation of water courses:** The water leaving the mine will be made silt free before joining into the water course by passing the water through siltation tank.

(viii) **Measures for minimizing adverse effects on water regime:** The surface and Ground water regime is not disturbed in any way and will not be affected.

(ix) **Protective measure for ground vibrations:** No ground vibration is anticipated as the blasting will be very less.

(x) **Measures for protection of Historical monuments:** No historical monuments are located within a radius of 5 km and question of protecting them does not arise.

(xi) **Socio Economic benefits arising out of mining:** The project will help more than 30 persons to get employment and about 75 persons will be benefited indirectly. The State Government and Central Government will benefited by getting royalties, taxes and cess.



This Mining Plan is Approved subject to the  
Conditions/Stipulations Indicated in the  
Mining Plan Approval Letter No.....

40602/R-1/MP/2005, dated 07.07.2006.

## 11.0 EMPLOYMENT AND SITE SERVICES

The quarry operation will provide employment to the following:

1) Mines Manager	-	1
2) Compressor Operator	-	1
3) Drillers	-	18
4) Excavator operator	-	2
5) Excavator Helper	-	2
6) Tipper Drivers	-	2
7) Cutters	-	12
8) Helpers	-	3
9) Watch man	-	2
10) Water Carriers	-	2
11) Accountant	-	1
12) Store Keeper	-	1
13) Supervisors	-	2



### 11.1 SITE SERVICES:

The rest shelter cum office, First aid room, and toilets are constructed in the flat central portion of the area. The roof is of asbestos sheets covered by hay to keep it cool in summer. A first aid certificate holder will be in charge of the first aid room. Protected drinking water will be provided and stored in earthen pots and all the site services will be maintained as per Mining Rules 1961.

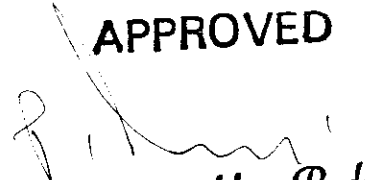
### 12.0 OTHER INFORMATION:

The blue granite present in the area is well accepted in the Domestic as well as International market. With this kind of small scale mining operation the environment will not be effected at all. It will improve the socio economic condition of the local people by providing much need employment, which will help their economy in this district of Srikakulam. The Government will also earn valuable foreign exchange.

For Designer Rocks Pvt Ltd

  
S.SAMBESHRAO  
Managing Director

**APPROVED**

  
**P. Rajasekhara Reddy**  
Joint Director  
Dept. of Mines and Geology  
Govt of A.P. Hyderabad.

  
A.D.GIDEON

(RQP/DMG/HYD/004/2001)

GOVERNMENT OF ANDHRA PRADESH  
PROCEEDINGS OF THE DIRECTOR OF MINES & GEOLOGY: HYDERABAD.  
(PRESENT: SRI. T. DEVENDRANATH, M.SC., DIRECTOR.)

PROCEEDINGS NO. 34995/R1-3/2002.

Dated: 26.10.2002.

Sub:- Mines and Quarries - Quarry Lease for  
Colour Granite - Extent: 5.000 Hectares -  
S.No. 1 - Addukonda Village - Tekkali  
Mandal - Srikakulam District - Application  
of M/s. Designer Rocks Private Limited -  
Granted - Orders - Issued.

Ref: 1 Quarry Lease application dt: Nil, from  
M/s. Designer Rocks Private Limited  
received by the ADM&G., Srikakulam on  
30.09.2002.  
2 ADM&G., Srikakulam Lr.No.4803/Q/2002,  
dated: 11.10.2002.

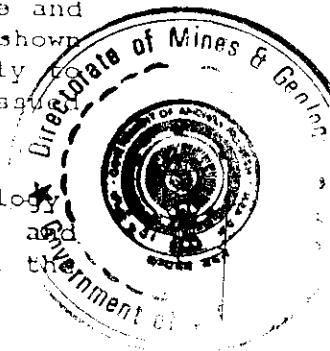
-ooOoo-

Through the reference 1<sup>st</sup> cited, M/s. Designer Rocks Private Limited have applied for grant of Quarry lease for Colour Granite over an extent of 5.000 Hectares in S.No.1 of Addukonda Village, Tekkali Mandal, Srikakulam District for a period of 20 years with relevant documents. The said Quarry Lease application is received by the Asst. Director of Mines and Geology, Srikakulam on 30.09.2002.

Through the reference 2<sup>nd</sup> cited, the Asst. Director of Mines and Geology, Srikakulam has reported that the applied area is part of the Eastern ghat formations of archean age. The rock available is a granitic gneiss, blue in colour, exhibiting gneissic texture with alternative arrangement of mafic and felsic minerals. The rock consists of Quartz, Feldspars as essential minerals, Garnet, Mica Pyroxenes, as accessories. The rock is hard, compact and medium grained in texture. The texture, colour and mineral arrangement of the rock gives a good look after cutting and polishing. The rock is useful for cutting and polishing.

Further, the Asst. Director of Mines and Geology, Srikakulam has also reported that the proposed area of 5.000 hectares was previously granted as Prospecting Licence in favour of one Dr. CH. Rao for a period of 2 years vide DM&G., Hyderabad Procds NO.28434/R1-3/97, dated: 17.5.2000. The P.L. deed was executed on 1.6.2000 and expired on 31.5.2002. The P.L. holder has not conducted the prospecting operations in the area from execution to expiry of the PL period i.e., upto 31.5.2002. Further the licensee has failed to pay the 2<sup>nd</sup> year prospecting fee and prospecting report. Moreover, the licensee has not shown any interest in this regard as he did not give any reply to the demand notice No 2355/Q/2000, dated: 8.10.2001 issued by him.

Further, the Asst. Director of Mines and Geology, Srikakulam has also reported that after survey and demarcation the area comes to 5.000 hectares for which the applicant has given consent



The Mandal Revenue Officer, Tekkali has issued No Objection Certificate vide D.Dis. No.382/2002-A, dated: 9.10.2002 in favour of M/s. Designer Rocks Private Limited. It is reported that the land in S.No.1, admeasuring an extent of 2310.80 Acres is classified as Hill Poramboke. The Mandal Revenue Officer, Tekkali has also informed that as verified in his Office records, he noticed that the area now proposed earlier was recommended in favour of Dr. CH. Rao, Visakhapatnam vide Lr.D.Dis.No.1085/97/A, dated: 28.12.1977.

The applicant has submitted valid M.R.C.C. for the period upto 31.3.2003.

Finally, the Asst. Director of Mines and Geology, Srikakulam has recommended for grant of Quarry Lease for Colour Granite over an extent of 5.000 hectares in S.No. 1 of Addukonda Village, Tekkali Mandal, Srikakulam District in favour of M/s. Designer Rocks Private Limited for a period of 20 years.

In view of the circumstances stated above, a Quarry Lease for Colour Granite over an extent of 5.000 Hectares in S.No.1 of Addukonda Village, Tekkali Mandal, Srikakulam District is hereby granted in favour of M/s. Designer Rocks Private Limited for a period of 20 years from the date of execution under rule 12(5) (a) (1) of Andhra Pradesh Minor Mineral Concession Rules, 1966, subject to the following conditions, conditions mentioned in the appendix enclosed to this order, other terms and conditions under Granite Conservation and Development Rules, 1999, A.P.M.M.C.Rules, 1966, and subsequent Government orders and executive instructions issued thereupon from time to time:-

- 1) The grantee shall pay the following amounts before execution of the lease deed:-
  - i) Dead Rent : Rs. 30,000=00 per Hectare per annum.
  - ii) Deposit as security : A sum equivalent to one year dead rent.
  - iii) Land Assessment : As per the rates fixed by the Revenue Department.
  - iv) Cess on Land Assessment: At the rate of Rs: 0.37 paise per rupee on Land Assessment.
- 2) The grantee shall execute the lease deed in Form "9" within (50) days from the date of grant as per Rule 12(5) (c) of Andhra Pradesh Minor Mineral Concession, 1966.
- 3) The grantee shall pay Seigniorage fee in advance at Rs: 1500=00 per Cum for the time being and despatch the granite under a valid despatch permit and transit form issued by the Asst. Director of Mines and Geology concerned.

- 4) The grantee shall pay the dead rent, Land Assessment and Cess on Land Assessment one month in advance i.e., before 1<sup>st</sup> March of every year during the subsistence of the lease period regularly whether formally demanded and called for or not.
- 5) The grantee shall pay Seigniorage fee as per the rates prescribed from time to time under Schedule - I in advance for the quantity intended to be despatched and then only despatch the material under the despatch permit and transit forms obtained from the Asst. Director concerned. The Grantee shall furnish details of despatches immediately soon after the despatch of material as per Rules 12(5) (h) (iii) of Andhra Pradesh Minor Mineral concession Rules, 1966.
- 6) a) The grantee shall pay seigniorage fee or dead rent whichever is higher on the mineral dispatched or consumed from the land at the rates specified under schedule I & II as the case may be in accordance with rule 10(1) of Andhra Pradesh Minor Mineral Concession Rules, 1966.  
b) The Government may, during the currency of the lease, vary the rate of Dead rent and Seigniorage fee and the grantee is liable to bear, pay and discharge all the existing and future rates, taxes, assessments etc., what so ever imposed or charged as per orders of the Government.
7. The grantee shall submit scheme of prospecting in the 1<sup>st</sup> year and Mining Plan within two years from the date of execution of the Quarry Lease deed failing which the lease will be cancelled without giving any opportunity. He should submit an undertaking to that effect to the Asst. Director of Mines and Geology, SRIKAKULAM before execution of the lease deed.

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

Sd/- T. Devendranath.

Encl : (APPENDIX)

DIRECTOR OF MINES AND GEOLOGY.

//Attested//

FOR DIRECTOR OF MINES AND GEOLOGY.

To:-

M/s. Designer Rocks (P) Limited,  
203, Archana Apartments, Bogumpot,  
Hyderabad-15. (BYRPAD)

Copy to the Dy. Director of Mines & Geology, Visakhapatnam.

Copy to the Asst. Director of Mines & Geology,  
Srikakulam, along with File No. 4803/Q/2002,

CF:1 to 4 pages, and NF:1 to      pages. (BY RPAD)

Copy to the Stock File





APPENDIX TO PROCEEDINGS NO: 34995/R1-3/2002

DATED: 26.10.2002.

-ooOoo-

- 1) The grantee shall erect and maintain at their own expenses boundary pillars of sub-stantial material as per Rule 12(5)(h)(v) of APMMC Rules, 1966.
- 2) The grantee shall without delay send to the ADM&G., concerned report of any accident involving death or injury to any person which may occur in and around the lease area and shall observe all the rules for the time being in force regarding the working of lease.
- 3) The grantee shall not assign, sublet, transfer or otherwise dispose of the area under lease without obtaining the previous sanction in writing of the Director of Mines and Geology.
- 4) The grantee shall obtain permission of the ADM&G., concerned before he/they would erect on the area under lease any building or structure for quarrying purpose if the area belongs to Government.
- 5) If in the course of quarrying any mineral not specified in the lease is discovered the grantee shall at once report such discovery to the ADM&G concerned so as to obtain necessary orders for Quarrying the same.
- 6) The grantee shall carryout Quarrying Operations in accordance with the Mining Plan approved for the entire duration of the lease with annual programme and plan for excavation on the precise area year to year for 5 years. The scheme of Mining for the next 5 years and so on shall be submitted and got it approved as per Rule 18 of Granite Conservation and Development Rules, 1999.
- 7) The grantee shall stack the non saleable granite rejects, small granite blocks suitable for possible use in manufacturing of bricks, Flooring, wall tiles, etc., dumping of top soil, over burden, waste material as per Rule 22 of Granite Conservation and Development Rules, 1999.
- 8) The grantee shall prepare all plans, Sections and tracings or copies thereof and keep the same at the quarry and submit the same to the State Government or any person authorised in this behalf as when required as per Rule 27 & 28 of Granite Conservation and Development Rules, 1999.
- 9) The grantee shall take all possible precautions for protection of the environment and control of pollution while conducting the quarrying as per the Air (Prevention and Control of Pollution) Act, 1981 ( 14 of 1981) and the Environment (Protection) Act, 1986 (29 of 1986) and Granite Conservation and Development Rules, 1999.
- 10) The grantee shall submit the notice of intimation of opening quarry and intimation of existence of quarry, abandonment of surrender of quarry, temporary discontinuance of work in quarry, intimation of reopening of a quarry, quarterly and annual returns, certain appointments/resignations/Termination/change of address and records of bore holes as per Granite Conservation and Development Rules, 1999.



- 11) The grantee shall observe the provisions of Mines Act, 1952, the Mineral conservation and developments rules, 1988 and the Metallic Ferrous Mines Regulations, 1961 and Granite Conservation and Development Rules, 1999.
- 12) The grantee shall not cut or injure any trees in the area without prior permission of the ADM&G concerned.
- 13) The grantee shall conduct quarrying operations within a period of Two years from the date of execution of the lease.
- 14) The grantee shall keep accurate and faithful accounts showing the quantity and other particulars of Granite obtained & despatched from the quarry. The number and Nationality of persons employed therein, record of all trenches, pits and drillings made in the course of quarrying and allow the officers of the Department to inspect the same and also to produce the same to the Department as and when demanded.
- 15) The grantee shall not pay a wage less than the Minimum wage prescribed by the Central or State Government from time to time under the Minimum Wages Act, 1948.
- 16) The grantee shall not use explosives in conducting quarry operations without obtaining prior sanction from the competent authority.
- 17) The grantee shall make arrangements on their own for approach to the area granted and also with the adjacent agricultural land holders or any others if necessary for smooth conducting of quarrying operations in the area granted.
- 18) The grantee shall without any condition permit the adjacent and nearby licence/lease holders for the movement of men and material through the area granted in case directed by the ADM&G, concerned.
- 19) The grantee shall on their own, to obtain the consent of the surface owner to enter his land and settled the terms of compensation, if any for the injuries that may be caused to the land by the quarrying operations. The grant of Quarry Lease does not bind the State Government to give physical possession of the land in question to the grantee.

Sd/- T. Devendronath  
DIRECTOR OF MINES AND GEOLOGY

//Attested//

for DIRECTOR OF MINES AND GEOLOGY.

GOVERNMENT OF ANDHRA PRADESH  
DEPARTMENT OF MINES AND GEOLOGY

PROCEEDINGS OF ASST. DIRECTOR OF MINES AND GEOLOGY, SRIKAKULAM  
(PRESENT: SRI K. RAMAMOCHAN REDDY, B.Sc.)  
ASST. DIRECTOR

Proceedings No. 4803/Q/2002

dtd. 28-10-2002

SUB MINES AND QUARRIES - Quarry lease for Colour over an extent of 5.000 Hectares in S.No. 1 of Addukonda village, Tekkali Mandal, Srikakulam District - Granted in favour of M/s Designer Rocks Private Limited - Execution of Lease Deed - Workorders - Issued - Reg

REF 1. Proc.No.34995/R1-3/2002 dtd. 26.10.02 of the Director of Mines and Geology, Srikakulam.  
2. D.Dis. 382/2002-A, dtd. 9.10.2002 of the MRO, Tekkali  
3. Letter dtd. 28.10.2002 from M/s Designer Rocks (P) Limited.

ORDER:

The Quarry lease granted in favour of M/s Designer Rocks Private Limited, 203 Archana Apartments, Begumpet, Hyderabad - 16, for colour granite S.No. 1 of Addukonda village, Tekkali Mandal, Srikakulam District over an extent of 5.000 Hectares for a period of 20 years, has been executed on 28-10-2002 by the undersigned. The Quarry lease is valid for a period of 20 years from 28-10-2002 to 27-10-2022.

M/s Designer Rocks Private Limited, 203 Archana Apartments, Begumpet, Hyderabad - 16 is hereby permitted to enter and work the quarry area in S.No. 1 of Addukonda village, Tekkali Mandal, Srikakulam District over an extent of 5.000 Hectares for a period of 20 years, under the provisions of APMMC Rules, 1966 and conditions laid down in the Mineral Leasing & Commerce Department, dated: 9.7.1992 and subsequent instructions relating to mining and polishing unit to the concerned District Industries Officer, Srikakulam & Geology, Srikakulam, the Dy. Director of Mines and Geology, Srikakulam, and the Director of Mines and Geology, Hyderabad. This work order is issued in accordance with the Government reserve the right to cancel the quarry lease granted under the APMMC Rules, 1966 without assigning any reasons and procedure laid down in the grant order and appendix.

ASST. DIRECTOR OF MINES AND GEOLOGY  
SRIKAKULAM

M/s Designer Rocks Private Limited,  
203 Archana Apartments,  
Begumpet, Hyderabad - 16

Copy submitted to:

1. The Director of Mines and Geology, Hyderabad for favour of information.
2. The Deputy Director of Mines and Geology, Visakhapatnam for favour of information.
3. The District Collector, Srikakulam for favour of information.
4. The Mandal Revenue Officer, Tekkali, for information.



GOVERNMENT OF ANDHRA PRADESH  
DEPARTMENT OF MINES AND GEOLOGY

Notice No.

Date:

Sub:- Quarry lease for Colour Granite over an extent of - 101.50 hectares in

Sy.No. 01 of Addukonda village,

Tel Mandal, Srikakulam District - held in favour

of M/s D.A.P. - Approved Mining Plan  
- Regarding .

It is hereby informed that as per Rule 17 of Granite Conservation & Development Rules, 1999, the existing lease holders have to submit the Mining Plan within one year from the date of commencement of these rules .

However as per this office records so far you have not submitted the Approved Mining Plan in respect of the quarry lease in the subject area , to this office. Therefore you are requested to submit the Approved Mining Plan <sup>within one year</sup> immediately to this office, failing which action will be initiated against you as per Granite Conservation & Development Rules, 1999 and A.P.M.C. Rules 1966 .

*Sd/-*  
Assistant Director of Mines & Geology,  
Tekkali ( Srikakulam-II)

TO:

*M/s D.A.P.*  
*Tel*

Copy submitted to the Director of Mines and Geology, Hyderabad for favour of information  
Copy submitted to the Dy. Director of Mines and Geology, Visakhapatnam for favour of information

*RF-801*  
*S. Prasad*  
*S. Prasad*  
*to Asst. Dir. Geol.*



General view of the Deposit



View of Quarry Working



View of Deposit



Dressing



63

designer rocks

pvt. ltd.

Sy. NO. 01  
Addukonda(V)  
TKL (M), SK (M) (OT)

20/7  
5/1/07

DT. 04.01.07,  
TEKKALI.

TO.

~~Mr. A. S. A.~~ Director  
5 Dept of Mines & Geology,  
TEKKALI.

Sir,

sub: In respect of color granite quarry lease  
in Sy. NO. 01, Addukonda(V), TEKKALI(M),  
SK (M) (OT) on extent over 5.00 hect -  
Approved mining plan submitted - doc

We are herewith submitting Approved mining plan  
of Sy. NO. 01, Addukonda(V), TKL (M), SK (M) (OT)  
on extent of over 5.00 hect. This is for  
your kind information and record.

Thanking you Sir.

Yours faithfully  
for M/S. DESIGNER ROCKS  
(P) LTD  
V. RAMESH  
(V. RAMESH)