

**PRE-FEASIBILITY
REPORT**

“BUILDING STONE QUARRY”

Sri K. Ananth

Sy. No. 87,

Goravinakallu (Village),

Hosadurga (Tq),

Chitradurga (Dist.)

Karnataka

Extent – 4-00 Acres

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1. Executive Summary:

The applicant **Sri K. Ananth** is applied a quarry lease for extraction of Building Stone over an extent of 4-00 acres in a part of Sy. No. 87 of Goravinakallu Village, Hosadurga Taluk, Chitradurga District, Karnataka State.

As per the statutory obligation this project needs Environmental Clearance from DEIAA Kolar District for Quarrying. Accordingly submitting 1) Form- IM, 2) Pre-Feasibility Report, 3) Quarry Plan approved by District Mines and Geology, 4) Land documents, 5) Statutory Clearances, 7) Survey of India Toposheet duly marking the project site. To the District Level Environment Impact Assessment Authority of Chitradurga constituted by MoEF, GoI for issuing Environment Clearance as per EIA January 15, 2016 Notification.

2. Introduction of the project/ Background information

- i) Identification of project and project proponent. In case of mining project, a copy of mining lease/ letter of intent should be given:
It is a Building stone Quarry Lease, and copy of Notification from Department of Mines & Geology is enclosed.

<u>Identification of project:</u>	<u>Project proponent:</u>
Extent: 4-00 Acres	Sri K. Ananth
“Building Stone Quarry”	Mangalapura Post
Sri K. Ananth	Sriramapura Hobli
Sy. No. 87,	Hosadurga Taluk
Goravinakallu (Village),	Chitradurga District
Hosadurga (Tq),	
Chitradurga (Dist.)	

- ii) Brief description of nature of the project:
It is a Building stone Quarry. It is a project of 4-00 Acres with maximum production of capacity of – 110065 MT.
- iii) Need for the project and its importance to the country and or region:

Although, the project is small it plays important role in the development of the region and country as Building stone.

- iv) Demand- Supply Gap:
There is a good demand for Building stone.
- v) Imports vs. Indigenous production:
Not applicable.
- vi) Export Possibility:
Not applicable
- vii) Domestic/ export Markets:
Nil.
- viii) Employment Generation (Direct and Indirect) due to the project.
Total man power proposed for this quarry is 30 Nos. Detailed breakup of man power proposed is given in Quarry plan.

3. Project Description

- i) Type of project including interlinked and interdependent projects, if any:
It is only Quarry and there will not be any interlinked and interdependent projects.
- ii) Location (map showing general location, specific location, and project boundary & project site layout) with coordinates:

Location of the project issued by the Department of Mines & Geology, Toposheet on 1:50,000 scale and Google satellite image are given below.

Google Earth Image showing Project



iii) Details of alternate sites, considered and the basis of selecting the proposed site, particularly the environmental considerations gone into should, be highlighted:

Building stone quarry is site specific.

iv) Size or magnitude of operation:

It is only a small scale Building stone quarrying with capacity of – 53969 MT

Year wise development for 1st five years:

An open cast Other than fully Mechanized method will be adopted to operate the area. Since, the annual production is 53969 MT; the Open cast method will be followed during the plan period. The volume of saleable stone and intercalated waste is as given below:

Year	ROM (MT)	98% Recovery @ 2.6/cmt (MT)	Total Wastage (2%) MT
First	112710	110456	2254
Second	107900	105742	2158
Third	106990	104850	2140
Forth	115787	113472	2316
Fifth	118170	115807	2363
Total	561557	550326	11231

Proposed method of quarrying: Quarrying will be carried out by open cast semi mechanization method by using compressor operated jack-hammer drills, truck dumpers etc. As the rock is exposed the open cast quarrying will be sufficient.

v) Project description with process details (a schematic diagram/ flow chart showing the project layout, components of the project etc. should be given):

It is only a Building stone quarrying no processing is involved, the details of quarrying is detailed in quarrying plan.

vi) Raw material required along with estimated quantity, likely source, marketing area of final product/s, Mode of transport of raw material and finished product:

- No raw materials required. Broken Building stone rock will be transported by tippers/trucks.
- vii) Resource optimization /recycling and reuse envisaged in the project, if any, should be briefly outlined:
No recycling and reuse of material is envisaged.
- viii) Availability of water its source, Energy /power requirement and source should be given:
Water will be availed from nearby bore wells. No energy/power requirement.
- ix) Quantity of wastes to be generated (liquid and solid) and scheme for their Management /disposal :
No wastes to be generated (liquid and solid). The rejected stone and waste material is stacked in the Stock Yard as shown in Quarrying plan.
- x) Schematic representations of the feasibility drawing which give information of EIA purpose: NA

4. Site Analysis

i) Connectivity:

The granted area is easily workable in all seasonal conditions. The area is located at Goravinakallu Village – 2.5 Kms (SE). The land is Government Gomala Land consisting mainly of Building stone. All facilities such as, post and telegraph office, Hospital, Police Station, Schools and Colleges are available at Hosadurga 3 Km.

ii) Land Form, Land use and Land ownership:

Land is a Government Revenue Land. The entire area is nonagricultural barren land.

iii) Topography(along with map):

- The QL area forms a stony ridges and having a gentle slopes in all direction.
- The highest and lowest elevation of the ground is 826 and 796 m above MSL
- Average elevation of the subject area is 815 m above MSL.
- No major roads pass through the applied area.
- No human settlements within or in the vicinity of the applied area.
The nearest village is at a distance 2.5 Km.

iv) Existing land use pattern (agriculture, non agriculture, forest, water bodies (including area under CRZ)), shortest distances from the periphery of the

project to periphery of the forests, national park, wild life sanctuary, eco sensitive areas, water bodies(distance from, the HFL of the river), CRZ, In case of notified industrial area, a copy of the Gazette notification should be given: Land and break up is given as follows:

Sl.No.	Land use	Present (Acres)	Proposed (Acres)
1.	Quarry workings	0.00	3.00
2.	Waste dumps	0.00	0.05
3.	Roads	0.00	0.05
4.	Mineral Storage	0.00	0.10
5.	Proposed Buffer zone	0.75	0.75
6.	Infrastructure	0.00	0.05
7.	Undisturbed area	3.25	0.00
Total		4.00	4.00

v) Existing Infrastructure: Nil.

vi) Climatic data from secondary sources:

The area can be described as semi-arid zone, the maximum temperature of about 38°C (March-2016) and minimum temperature of 14°C (January-2016) is noticed during the study period. Rainfall is meager (about 1132mm during previous year ie, 2016) and confined to monsoon period only. In general the area is drought prone.

vii) Social Infrastructure available: Nil.

5. Planning Brief

i) Planning Concept (type of industries, facilities, transportation etc) Town and country Planning/ Development authority classification.: NA

ii) Population Projection: The project will not affect population of the village.

iii) Land use planning (breakup along with green belt etc.) - enclosed in the quarry plan

iv) Assessment of Infrastructure Demand (Physical & Social)-NA.

v) Amenities/ Facilities

Not applicable as it is a small project as it is only quarrying in 4-00 Acres

6. Proposed Infrastructure

- i) Industrial Area(Processing Area) : Nil
- ii) Residential Area (Non Processing Area) :Nil
- iii) Social Infrastructure Connectivity (Traffic and Transportation Road/Rail/Metro /Water ways etc):
The granted area is easily workable in all seasonal conditions. The area is 2.5 Km (SE) of Goravinakallu Village.
- iv) Drinking Water Management (Source & Supply of water):
Bore well water using a tanker.
- v) Sewerage System:
Sewage generation is minimal-Septic tank.
- vi) Industrial Waste Management:
Not applicable.
- vii) Solid Waste Management:
No solid waste.
- viii) Power Requirement & Supply /source:
Power not required.

7. Rehabilitation and Resettlement (R & R) Plan

Not applicable as it is a small project and no persons will be affected.

8. Project Schedule & Cost Estimates

- i) Likely date of start of construction and likely date of completion (Time schedule for the project to be given):
Quarrying will start within a month after getting EC clearance.
- ii) Estimated project cost along with analysis in terms of economic viability of the project:
Estimated project cost is 9 lakhs. It is economically viable as it is quarrying of the Building stone.

9. Analysis of proposal(Final Recommendation)

- i) Financial and social benefits with special emphasis on the benefit to the local people including tribal population, if any, in the area.
Quarrying activity improves the economic status of the village people working in the area. Overall improvement will be expected in local area.