

Prefeasibility Report of Gravel of Smt G. Koteswari Sy. No 9-1,9-2B & 9-4 of
Gopavarapugudem (V), Gannavaram (M), Krishna District, Andhra Pradesh State

PRE FEASIBILITY REPORT

Of

GRAVEL

**Sy No – 9-1, 9-2B & 9-4, Gopavarapudem Village
Gannavaram Mandal, Krishna District,
Andhra Pradesh**

APPLIED AREA OF MINING LEASE –3.555 Ha

For

**1, 49,751.25 MT/ANNUM OF
GRAVEL
PRODUCTION**

By

Smt G. Koteswari

Prefeasibility Report of Gravel of Smt G. Koteswari Sy. No 9-1,9-2B & 9-4 of
Gopavarapugudem (V), Gannavaram (M), Krishna District, Andhra Pradesh State

1. EXECUTIVE SUMMARY

S. No	Parameter	Details		
1	Name & Address of the Applicant	Smt G. Koteswari, W/o G. Siva Rama Krishnaiah, D.No: 60-11-1, Plot No.304, Chennupati Towers, Vijayawada, Krishna District, Andhra Pradesh State		
2	Total Extent of the project	3.555 Ha		
3	Location of the project	Sy. No. 9-1, 9-2B, & 9-4 of Gopavarapudem Village, Gannavaram Mandal, Krishna District, Andhra Pradesh State.		
4	Geo Co-ordinates	B.P No.	LATITUDE	LONGITUDE
		a	N16°36'46.260"	E080°45'21.180"
		b	N16°36'44.830"	E080°45'17.280"
		c	N16°36'42.290"	E080°45'14.800"
		d	N16°36'40.970"	E080°45'14.930"
		e	N16°36'40.990"	E080°45'14.220"
		f	N16°36'41.320"	E080°45'13.300"
		g	N16°36'46.840"	E080°45'15.270"
		h	N16°36'52.910"	E080°45'16.750"
		i	N16°36'51.220"	E080°45'20.390"
		j	N16°36'50.530"	E080°45'21.860"
		k	N16°36'47.010"	E080°45'19.520"
5	Total Mineable Reserves	7, 78,500 MT		
6	Proposed Production	1, 49,751.25 Tons -Average annual production		
7	Life of the Mine	5 years		
8	Method of Mining	Open Cast other than fully Mechanised/ Semi Mechanized Method		
9	Employment	20 persons		
10	Water Requirement	10 KLD		

2. INTRODUCTION OF THE PROJECT/BACKGROUND INFORMATION

Identification of project and project proponent, in case of mining project, a copy of mining lease/ letter of intent should be given

Smt G. Koteswari has filed an application for grant a quarry lease for Gravel over an extent of 3.555 Hectares in Sy. No. 9-1, 9-2B, & 9-4 of Gopavarapudem (V), Gannavaram (M), Krishna District, Andhra Pradesh State, for a period of 05 years by the vide reference 1st cited, the same was received by the Asst . Director of Mines and Geology, Vijayawada on 04.07.2018

The Assistant Director of Mines and Geology, Vijayawada Vide Reference 2nd cited proposals on the application duly recommending for grant of Quarry lease for Gravel an Extent of 3.555 Hectares in Sy. No 9-1, 9-2B, & 9-4 of Gopavarapudem (V), Gannavaram (M), and Krishna District for a period of five years.

(i) Brief description of the nature of the project

The proposed project is a Gravel project located over an extent of **3.555 Hectares in Sy. No 9-1, 9-2B, & 9-4 of Gopavarapudem (V), Gannavaram (M)**, Krishna District, Andhra Pradesh State. The applicant proposed to produce 1, **49,751.25** MT per annum from the subject quarry.

(ii) Need for the project & its importance to the country and or region

The gravel is used for the construction process which is used in the basements of buildings. And it is used for the Roads and B.T Roads.

Demand- Supply Gap

The Gravel which is produced from the subject Quarry will be used in almost any type of constructions activity and railway projects and other construction activities.

(iii) Imports vs. Indigenous production

The Gravel will be consumed in the domestic as well as

(iv) Export possibility

The Gravel is, located in and around Telangana and Andhra Pradesh. The Gravel will be consumed in the domestic as well as in local areas. Hence it is export products.

(v) Domestic/Export Markets

There is a possibility of Export. The Gravel will be consumed in the domestic areas Employment generation (direct and indirect) due to the project

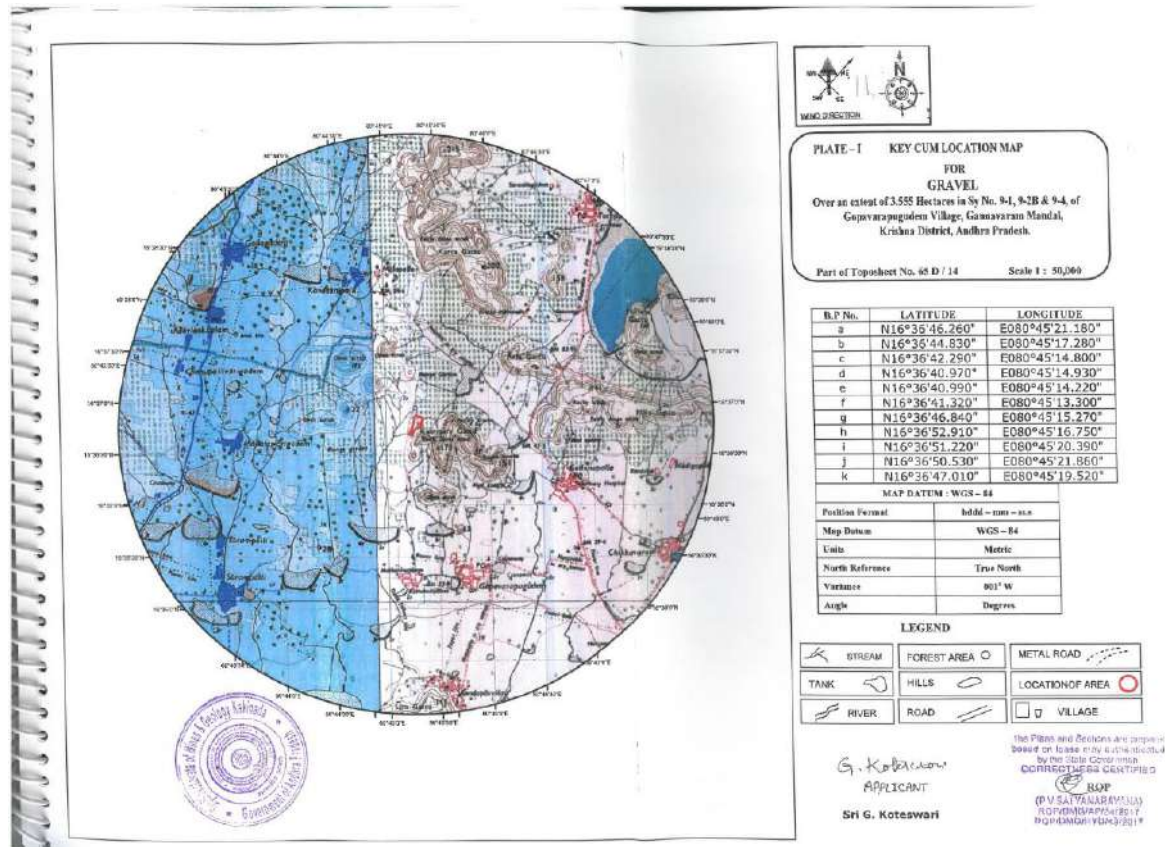
About 20 persons will be employed directly and indirect employment will also be provided in the form of helpers, drivers etc., It will provide employment to the people residing in vicinity.

3. PROJECT DESCRIPTION

(i) Type of Project Including Interlinked And Independent Projects, If Any:

The Subject project is a Gravel Quarry project located over an extent of **3.555 Hectares in Sy. No 9-1, 9-2B, & 9-4 of Gopavarapudem (V), Gannavaram (M),** Krishna District, Andhra Pradesh State the applicant proposed to produce 1, **49,751.25** MT per annum of the subject quarry. Open Cast Semi Mechanized Method of Mining will be adopted.

(ii) Location (map showing general location, specific location, and project boundary & project site layout) with coordinates-



(iii) Details of Alternate Sites Considered and the basis of selecting the proposed site, particularly the environmental considerations gone into should be highlighted.

No Alternative sites were considered as it is site specific project.

(iv) Size or Magnitude of Operation

The total extent of the quarry lease area is 3.555 Ha and it is proposed to produce 1, **49,751.25** MT per annum from this quarry.

The year wise production proposed is shown in the following table.

YEAR WISE PRODUCTION FOR FIVE YEAR			
Year	Surface Area	Depth	Volume
	(M²)	(M)	(M³)
1st YEAR	18,501.27	3	55,503.81
	16,342	2.33	38,076.86
	TOTAL		93,580.67
2nd YEAR	16,342	0.67	10,949.14
	14,274	3	42,822
	17,790	2.23	39,671.7
TOTAL		93,442.84	
3rd YEAR	17,790	0.77	13,698.3
	16,906	3	50,718
	16,021	1.82	29,158.22
TOTAL		93,574.22	
4th YEAR	16,021	0.59	9,452.39
5th YEAR	16,021	0.59	9,452.39
SUB TOTAL			2,99,502.51
AVERAGE			59,900.50

(v) Project Description with Process Detail (a schematic diagram/ flow chart showing the project layout, components of the project etc. should be given)

The Mineral in the quarry lease applied area is proposed to quarry the sheet by Open Cast Semi Mechanized Method by deploying an Excavator will be deployed to slice the mineral vein (from one end to another) and load into trucks.

(vi) Demands-Supply Gap

The demand for Gravel has been steadily increasing over the years to the requirement of constructions based process.

(vii) Availability of Water Its Source, Energy /Power Requirement and Source

The total water requirement of the project is 10KLd which will be used for Dust Suppression, Green Belt Development and Domestic Purposes. This water will be sourced from water tankers.

(viii) Exploration already carried in the area:
Applied area for grant of mining lease was demarcated on the ground with reference to revenue pillars. Later the topographical survey of the area was carried out by ETS.

4. SITE ANALYSIS

(i) Connectivity

(ii) The location of quarry is well connected with good infrastructure as National Highway-16 connecting is at a distance of 12.5 KM the quarry and adequate availability of skilled manpower is available for quarry operations.

(iii) Land Form, Land Use and Land Ownership

The mining lease is located in govt land. The QL applied area is a flat area in the form of Topography along with Map

The quarry lease applied area of Rocky barren mound with towards relief East Direction. The highest contour is 68 mts and lowest contour is 63 mts.

(iv) Soil Classification

The soil observed in the area is Red Sand Soil

(v) Climatic Data from Secondary Sources

The area is falling under semi-arid tropical zone. The area is having dry climate. The temperature recorded in this area is 25°C in winter and about 48°C in summer seasons. The wind direction is in SW to NE. The average annual rainfall of the area is 1000 mm.

(vi) Environmental Requirements:

Proper planning of Approach Roads, Crushing Plant with green belt management and water sprinkling of haul roads will achieve hygienic quarry. Closure and Reclamation program shall be strictly implemented after exhaustion of ore in the quarry.

(vii) Legal Parameters and Others :

The quarry lease was not yet granted over in Govt. Land. The quarry is under operation without any hindrances, which indicates the public acceptance for quarrying. The quarry is providing an employment for local labor of about 20 members. The quarry authorities / owner has to strictly adhere to future forthcoming any new rules and regulations. The area is not situated in tribal area and any national parks are not situated in the surrounding area.
