Pre Feasibility Report

Proposed Soil Excavation Project is at

Gata No: 44, 145

Village: Hasampur Gopal

Tehsil: Moradabad

District: Moradabad.

Uttar Pradesh.

MOHAMMAD SALIM

S/O MR. SAKEEL AHMAD

Executive summary:

Name of the applicant	Mohammad Salim S/o Mr. Sakeel Ahmad
Name & Address	Mohammad Salim S/o Mr. Sakeel Ahmad **M/s V.R. CONSTRUCTION** Village: Pakbara Tehsil: Moradabad District: Moradabad. Uttar Pradesh.
Project Area	3.322 ha.
Location of excavation site **HASAMPUR GOPAL**	Latitude : $28^0$48'00.69"N Longitude : $78^0$40'12.40"E
Elevation	202 Meter
Gata No.	44, 145.
Topography	Agricultural land
Minerals of excavation site	Soil excavation
Proposed production of excavation site	15,000 Cu.m.
Method of mining	Mechanized **(Use of Motorable Machine)**
Drilling/Blasting	No drilling and blasting is proposed
Water demand	3.0 KLD
Sources of water	Water will be supplied from potable water from tanker supplier.
Ultimate depth of excavation site	1.0 Meters
Man power	15
Solid Waste	Small amount of sachet/gutka/pan masala pouches used by the labourer would be generated.
Nearest railway station	Nearest Railway Station is Moradabad Railway Station at an aerial Distance of 10.0 km in North- East direction form Project Site.
Nearest state highway/National highway	SH- 78 at 3.0 km in North direction from the project site.

2. INTRODUCTION

2.1 Identification of Project and Project Proponent

The project site is owned by Mr. Danish Khan. The details of the project and its Proponents are given below:

Name of the applicant	Mr. Pappi Chaudhary S/o Mr. Ahmad Jan
Name & Address	Mohammad Salim S/o Mr. Sakeel Ahmad **M/s V.R. CONSTRUCTION** Village: Pakbara Tehsil: Moradabad District: Moradabad. Uttar Pradesh.
Gata. No.	44, 145**.**
Area	3.322 ha.
Mineral	Ordinary Soil
Status of Mine	Fresh application for Environmental Clearance for Excavation of soil.

2.2 Brief description of the nature of the project

It has been proposed to collect approximately 15,000 cubic meters of Soil. Excavation activity will be proposed after the grant of environment clearance.

Table 1 shows the mine lease area along with its dimensions.

Gata No.	Area in ha.	Area in Sq.m.	Mining Depth (m)	Area of Berm Left 10%	Volume of Berm Cu.m	Volume of Blockage soil in cu.m	Excavation Area in Sq.m.	Top Soil in cum	Reserve in Cu.m	
									Geological Reserve	Mineable Reserve
44	2.432	24230	1.0 Meter	2423	2423	5445.6	21807	4361.4	24230	12000
145	0.890	8900	1.0 Meter	890	890	3408	8010	1602	8900	3000
Total	**3.322 Ha.**	**33130 Sq.m**		**3313 Sq.m**	**3313 Cu.m**	**8853.6 Cu.m**	**29817 Sq.m**	**5963.4 Cu.m**	**33130 Cu.m**	**15000 Cu.m**

Surface Excavation: The excavation of soil from the land will be Semi-mechanized. Soil excavation will be carried out 1.0 meters. Excavation will be carried out only during the day time.

2.3 Need for the project and its importance to the country and region

The proposed land is agricultural land. The proposed land is agricultural land. No mineral beneficiation will be under taken for next 3 months. The entire soil mined will be used for Selling in open Market, Distt –Moradabad, Uttar Pradesh.

2.4 Demands-Supply Gap

Not Applicable

2.5 Domestic/ Export Markets

The proposed land is agricultural land. The proposed land is agricultural land. No mineral beneficiation will be under taken for next 3 months. The entire soil mined will be used for Selling in open Market, Distt –Moradabad, Uttar Pradesh.

2.6 Employment Generation

This project operation will provide livelihood to the poorest section of the society. It will provide employment to the people residing in vicinity.

3.0 <u>PROJECT DESCRIPTION</u>

3.1 Type of project including interlinked and interdependent projects, if any

The proposed project is located at Gata. No. 44, 145, Village: Hasampur Gopal, Tehsil: Moradabad, District: Moradabad, Uttar Pradesh, for the excavation of soil from the agricultural land.

The proposed land is agricultural land The proposed land is agricultural land. No mineral beneficiation will be under taken for next 3 months. The entire soil mined will be used for Selling in open Market, Distt –Moradabad, Uttar Pradesh. The excavation lease area falls in Survey of India.

The project site is located at

HASAMPUR GOPAL	Latitude	:	$28^0$42’00.69”N
	Longitude	:	$78^0$40’12.40”E

3.2 Details of alternate sites considered

The soil excavation site is site specific, hence there are no alternative sites considered.

3.3 Size or magnitude of operation

The proposed excavation area is 3.322 ha. The total excavated soil would be 15,000 cu.m.

3.4 Project description with process details

3.4.1 Method for developing and working the deposits

The proposed land is agricultural land. The proposed land is agricultural land. No mineral beneficiation will be under taken for next 3 months. The entire soil mined will be used for Selling in open Market, Distt –Moradabad, Uttar Pradesh.

3.4.2 Method of excavation

The excavation of soil on the project site will be done mechanized **(Use of Motorable Machine)**. Excavation will be carried out only during the day time.

3.5 Raw Material Required Along With Estimated Quantity, Likely Source, Marketing Area of Final Product/ Mode of Transport of Raw Material and Finished Product

The proposed land is agricultural land. No mineral beneficiation will be under taken for next 3 months. The entire soil mined will be used for Selling in open Market, Distt – Moradabad, Uttar Pradesh.

3.5.1 Use of Mineral

The proposed land is agricultural land. The proposed land is agricultural land. No mineral beneficiation will be under taken for next 3 months. The entire soil mined will be used for Selling in open Market, Distt –Moradabad, Uttar Pradesh.

3.5.2 Mineral Beneficiation

No mineral beneficiation is involved.

3.6 Resource optimization/ recycling and reuse

Not envisaged.

3.6.1 Availability of water its source, energy/ power requirement and source

3.6.2 Water Requirement

In the proposed project water requirement for drinking is 2.5 KLD and for dust suppression will be around 0.5 KLD. This water will be supplied from the construction/potable water from tanker supplier.

3.6.3 Power Requirement

The operation will be done only from sun rise to sun set. Hence there is no power requirement.

3.6.4 Quantity of wastes to be generated (liquid and solid) and scheme for their management/disposal.

3.7.1 Solid Waste Generation & its Disposal

- Only small amount of sachet/gutka/pan masala pouches used by the labourer would be generated which will be separately stored in bins and managed as per Solid Waste Management Rules.

3.7.2 Liquid Effluent

No liquid effluent will be generated at the excavation site.

4. <u>SITE ANALYSIS</u>

4.1 Connectivity

4.1.1 Nearest Railway Station

Nearest Railway Station is Moradabad Railway Station at an aerial Distance of 10.0 km in North- East direction form Project Site.

4.1.2 Nearest Highway

SH- 78, at a, 3.0 km in North direction from the project site.

4.2 Land form, land use and land ownership

The proposed project is located at Gata no, 44, 145, Village: Hasampur Gopal, Tehsil: Moradabad, District: Moradabad, Uttar Pradesh. The proposed land is agricultural land. The proposed land is agricultural land. No mineral beneficiation will be under taken for next 3 months. The entire soil mined will be used for Selling in open Market, Distt – Moradabad, Uttar Pradesh. This is an independent project for the management of soil which will be excavated. Mr. Mohammad Salim the owner of the land.

4.3 GEOLOGY OF THE AREA:

Moradabad district forms a part of Gangetic alluvial plain and lies between 28^{0} 20’ and 44, 145^{0} 16’ north latitudes and 78^{0} 24’ and 79^{0} 0’ east longitude covering an area of 3759.79 sq.km. It is bounded by Bijnor and Nainital district in east by Rampur district in south by Budaun district and in west by Jyotiba Phule Nagar district. The district Moradabad is drained by river Ramganga and its tributaries namely Dhela Nadi, Koshi Nadi, Gangan Nadi, Aril Nadi and Sot Nadi. The district of Moradabad lies east of the Ganges and west of the native state of Uttar Pradesh. It lies within the great Gangetic plain and is demarcated into three subdivisions by the rivers Ram ganga and Sot. The eastern tract consists of a submontane country, with an elevation slightly greater than the plain below, and is traversed by numerous streams descending from the Himalayas. The central portion consists of a level central plain descending at each end into the valleys of the Ram ganga and Sot. The western section has a gentle slope towards the Ganges, with a rapid dip into the lowlands a few miles from the bank of the great river.

Regional Geology

Geomorphologically, the area of the district can be divided into two broad geological units namely 1. **Younger Alluvium** 2. **Older Alluvium**

YOUNGER ALLUVIUM: The area occupied by younger alluvium can be delineated along Ramganga and Dhela rivers draining the district. The younger alluvium is confined dominantly within the flood plain of these rivers.

The flood plain can be further differentiated into two geomorphic units – (i) Flood Plain, (ii) Older Flood Plain

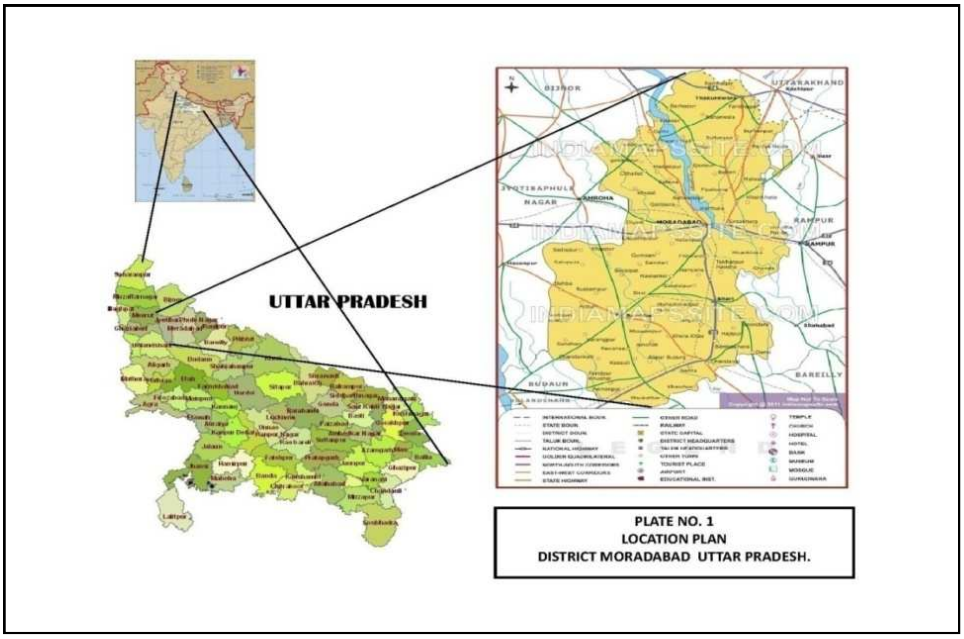
(i) **Flood Plain:** The river channel and its adjacent areas forming terraces, which are subjected to periodic flooding consisting of sand, silt and silty sand with minor clays from the flood plain of river. This is a narrow zone along river channel and gets flooded regularly during rainy season.

(ii) **Older Flood Plain:** Older flood plain of river Ramganga can be delineated extending to few kilometers. Locally it is known as Khadar. The zone is characterised by presence of fluvial land from such as meander scars, cut off meanders forming water bodies and paleochannels. The sediments are fine grained sand and silt with thin clay horizons. The zone can be separated from older alluvium by presence of natural levee, sand dunes and abrupt change in slope.

OLDER ALLUVIUM: It occupies the entire upland or interfluve area between the major drainage Ramganga and Kosi and Sot & Ramganga. The soils are silty, clayey and sandy in varying proportions. The older alluvium can be differentiated into following geomorphic units: (i) Sandy Tract and (ii) Central Upland Plain of Interfluve Area.

(i) **Sandy Tract:** These are occurring very close to old flood plain of Ramganga. This unit correspond to Bhur of physiographic unit. This unit is characterised by absence of drainage ways, indication of high permeability as coarse sand exists.

(ii) **Central Upland Plain or Interfluve Area:** The unit occupies the central part as well as eastern part of the district and is characterised by presence of well drainage ways namely Ganga & Sot. The soils are clayey through at place these are sandy. Back swamp deposits can also be seen in this zone.



4.4 Existing land use pattern

Currently the land is located at Gata No, 44, 145, Village: Hasampur Gopal, Tehsil: Moradabad, District: Moradabad, Uttar Pradesh. The proposed land is agricultural land. The proposed land is agricultural land. No mineral beneficiation will be under taken for next 3 months. The entire soil mined will be used for Selling in open Market, Distt – Moradabad, Uttar Pradesh. The excavation work will provide employment to the local laborers.

4.5 Soil classification

The district consist Major soil types are Bhur, Matiyar & Domat. The Ganga Yamuna Doab region is a riverine region endowed with fertile soil, favorable climate, flat surface and slow moving river. This region with its deep, fertile, stone less, alluvial soil and its many rivers is the most favorable and most desirable part of India. The project site area is lies in the Ganga Khadar Region.

Ganga Khadar: The Khadar is composed of river alluvium and forms the flood plains along the river banks. These deposits are normally confined to the vicinity of the present river channels. The khadar is found in the Far East region of the Ganga - Yamuna Doab. They are called as Ganga Khadar or flood plain of Ganga River. This area comprised of many depressions and stream that are connected to the river. The Ganga Khadar is approx. 10 km wide in the northern part and it decreases in the South of Bulandshahr district. This belt comprises of weak and light soil, many suitable for long grasses. Wherever, alluvial deposits are found along the river banks, there are series of villages and tehsils like Mawana, Garhmukteshwar and Anupshahr are found along it.

Soil type	Charatertics
Sandy soil	Poor in soil fertility
Sandy loam	Low in fertility, well drained

4.6 Climatic data from secondary sources

CLIMATE & RAINFALL

The climate of the city is moderate. Historically, Muradabad and its surrounding areas had a pleasant climate. However, in the resent past few years there has been a rapid alteration and unexpected changes in the climate. The annual average temperature is 25.300c. But during the summer months, the mean maximum temperature shoots up to 37.500c whereas annual average minimum temperature is 19.340 c. The city receives an annual average rainfall about 123 cm. In term of persistent of weather condition the city experience the four seasons.

The cold season starts from mid November to February is followed by the summer season, which generally commence from March and remain up to mid June. The period from Mid June to end of September is the south west monsoon season and October to mid November the post Monsoon season.

5. PLANNING BRIEF

5.1 Planning concept

Mining plan is required for the soil excavation at the project site. The proposed land is agricultural land. No mineral beneficiation will be under taken for next 3 months. The entire soil mined will be used for Selling in open Market, Distt –Moradabad, Uttar Pradesh.

5.2 Population projection

The project will employ most of the workers from nearby villages. There will not be any increase in population due to the project.

5.3 Land use planning

The proposed land is agricultural land. No mineral beneficiation will be under taken for next 3 months. The entire soil mined will be used for Selling in open Market, Distt –Moradabad, Uttar Pradesh.

5.4 Amenities/facilities

The project will employ most of the workers from nearby villages. So, no need of temporary rest shelters, first- aid facility will be available at the project site.

6. PROPOSED INFRASTRUCTURE

6.1 Industrial area (Processing Area)

No industrial area is proposed.

6.2 Residential area (Non Processing Area)

The project will employ most of the workers from nearby villages. So, no need of temporary rest shelters.

6.3 Green belt

Plantation will be done in the open area of village.

6.4 Connectivity

SH-78, at a, 3.0 km in North direction from the project site.

6.5 Drinking Water Management

Water for drinking is required to be 3.0 KLD. It is proposed to obtain water from construction/potable water from tanker supplier.

6.6 Sewerage System

Not applicable.

6.7 Industrial Waste Management

Not applicable.

6.8 Solid Waste management

Not applicable.

6.9 Power Requirement & Supply/ Source

The operation will be done only from sun rise to sun set. Hence, there is no power requirement for the project at site.

7. REHABILITATION AND RESETTLEMENT (R&R) PLAN

Not Applicable.

8. PROJECT SCHEDULE & COST ESTIMATES

The project will commence once Environmental Clearance and other necessary certificates are obtained from the respective departments.

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