

# Assignment

Name# M=IKRAM

ID # 7874

Sec # B

Sub # Geotech



AM:.

# Geotechnical Report:-

we are going to discuss line project and carry out necessary soil investigation in Kohat

⇒ Site Investigation:-

Sub surface exploration are done for ~~the~~

obtaining the information about subsurface,

condition at the site of proposed



# Construction.

Site Investigation  
is in one form  
or the other is  
generally required for  
every big engineering  
project. Information  
about Surface &  
Sub-Surface features  
is essential for  
the design of  
structures.

⇒ Laboratory Investigation  
following test are  
conducted on Soil  
Samples.



• Determination of Specific Gravity.

• " of Shrinkage limit.

• " Swell Index

• " plasticity Index

=> plastic limit / liquid

limit also considered

⇒ Conclusions:

In the end Average Specific Gravity of Soil at high temp (Gr = 2.47) of Kohat.

which also conclude that Soil is more Saturated and organic do want of it.

Quiz:-

Name# M=IKRAM

ID# 7874

Sec# B

Geo tech



Ans:

Q.12

The Software which are used in geotechnical engineering are following below

① SEEP 2D

② STABL

③ SVFLUX

④ SV SLOPE

⑤ VTEXAS

## SEEP 2D :-

Seep 2D is a 2D Seepage analysis program written by Dr. Fred Tracy of the United States Army Corps of Engineers.

The program is used to analyze water Seepage through dams, level sheet piles or water level sheet piles.



②

## STABLE :-

it is another vital software which is used for summarization of sophisticated data. It's behaviour functionality specification or API which is considered final for that version. It is highly recommended software by experts.

③

## SV flux :-

It is an finite element seepage analysis program.



developed by Soil-Vision  
System (LTD). The software  
is designed to analyze  
both saturated and  
un-saturated flow through  
the ground.

④ SV slope: It's a Slope  
Stability analysis program  
developed by Soil Vision (LTD)  
The software is designed  
to analyze slopes  
using both the classic  
"method of slice"  
as well as newer  
stress-based methods



## ⑤ UTEXAS Software:-

The main language of this software is English but now it has been translated to my language, due to its high value of need of it, in the field and help to analyze the Slope Stability:-