

Assignment

Name

SHERAZ

ID

7862

SEC

B

Geo

tech

Geotechnical report

General

In this project we are intended to take line project and carry out necessary soil investigation in Maradan [Pakistan chowk]

Site investigation

Site investigation or Sub-Surface exploration are done for obtaining the information about Subsurface

Conditions at the site of proposed
Construction . Site investigation in one
form or the other is generally
required for every big engineering
project . Information about the
Surface and sub-surface
features is essential for
the design of structures .

Laboratory investigation

⇒ following ~~was~~ tests are conducted on soil samples.

* Determination of Specific gravity

* " of Shrinkage limit

* " " " Swell Index

* " " " plasticity Index

⇒ plastic limit & liquid limit is also considered.

Conclusion

In the end, Average Specific Gravity of Soil at high

temperature

$$G_T = 2.432$$

of

Mardan (Pakistan Chowk) .

which also conclude that

Soil is more saturated

and organic to west of

it.

Quiz

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Ans The Software which are used
in geotechnical engineering are
following below.

- 1) SEEP 2D
- 2) STABL
- 3) SVFLUX
- 4) SV Slope
- 5) UTEXAS

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, typically through dams and levees or under sheet piles.

STABLE

It is another vital Software
which is used for summarization
of sophisticated data. Its
behaviour, functionality, specification
or API which is considered
final for that version. It
is highly recommended Software
by experts.

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 on-saturated

flow through the ground

SV Slope

It is an 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.

UTEXAS Software

The main language of this
Software is english but

now It has been translated

to my languages due It

high value and need of

it, in the field and

help to analyze the slope

Stability.