

Q1

What is the difference b/w standard Proctor test and standard penetration test.

Standard Proctor Test

Standard Penetration Test.

1) It is used to determine compaction of different types of soil.

It is used to get information about geotechnical properties.

2) Its graph is parabolic

It is carried out in bore hole.

3) It gives relation b/w moisture content & density

It is used to determine the relative density & angle of shearing resistance.

2. What is classification of soil based on free swell index.

Free Swell index

Degree of Expansive

Plastic limit.

<20

low

0-35%

20-35

Moderate

25-50%

35-50

High

35-65%

>50

Very high

>45%

Why is permeability test for soil important.

It is important because.

- 1) To know whether plants roots are been nourished.
- 2) To check seepage.
- 3) It is also useful in fisheries.