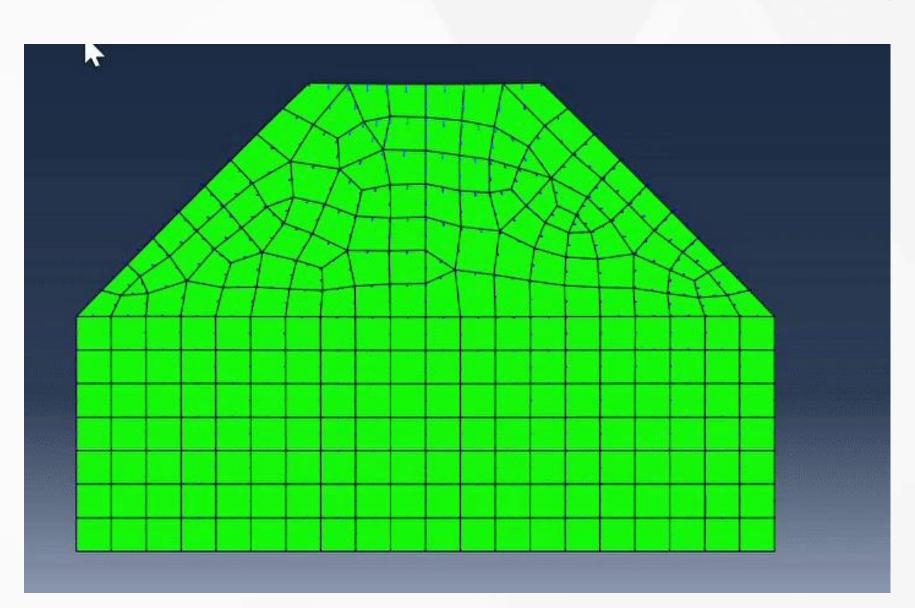
Procedure

- 1. Model Creation
- 2. Giving material Properties
- 3. Applying Boundary Conditions
- 4. Applying Load
- 5. Visualizing the deformations/settlement
- 6. Obtaining the graphs



Properties

Soaked condition

Ash Mix:

Mass Density = 1050 Kg/m3

CBR = 4.3

E = 3.614 MPa

Poisson's Ration = 0.3

Permeability = $8x10^{-7}$ m/s

Void Ratio = 7.47

Subgrade:

Mass Density = 1856 Kg/m3

CBR = 6

E = 5.043 MPa

Poisson's Ration = 0.3

Permeability = 1.5×10^{-8} m/s

Void Ratio = 0.5

Unsoaked condition

Ash Mix:

Mass Density = 1050 Kg/m3

CBR = 12

E = 10.086 MPa

Poisson's Ration = 0.3

Permeability = $8x10^{-7}$ m/s

Void Ratio = 7.47

Subgrade:

Mass Density = 1856 Kg/m3

CBR = 10

E = 8.405 MPa

Poisson's Ration = 0.3

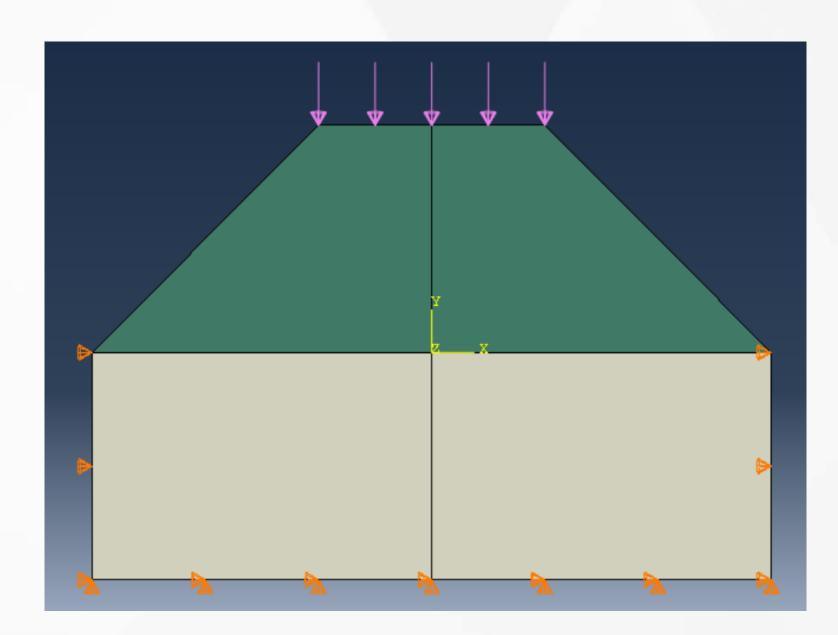
Permeability = 1.5×10^{-8} m/s

Void Ratio = 0.5

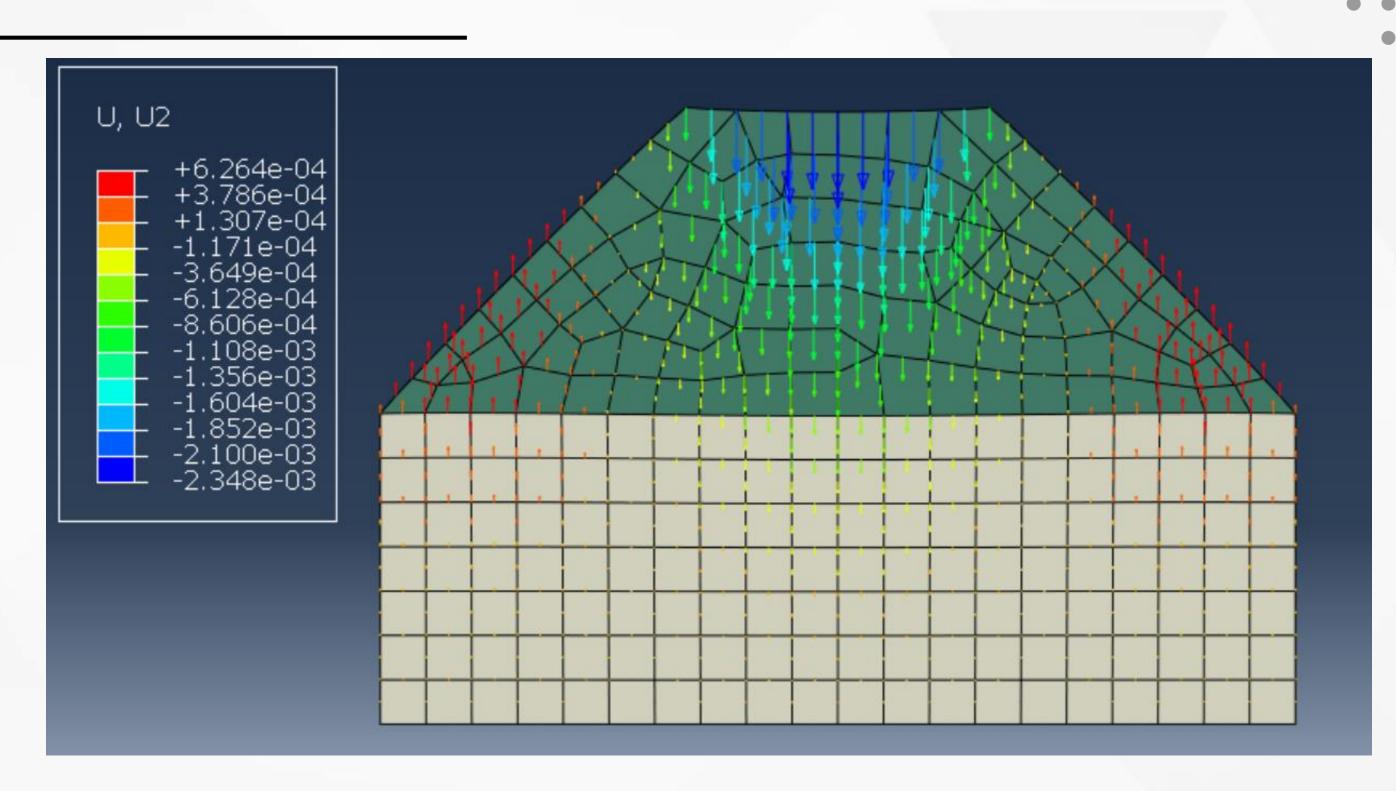
Boundary conditions and Load

Uniformly distributed Load is Provided on the top of embankment

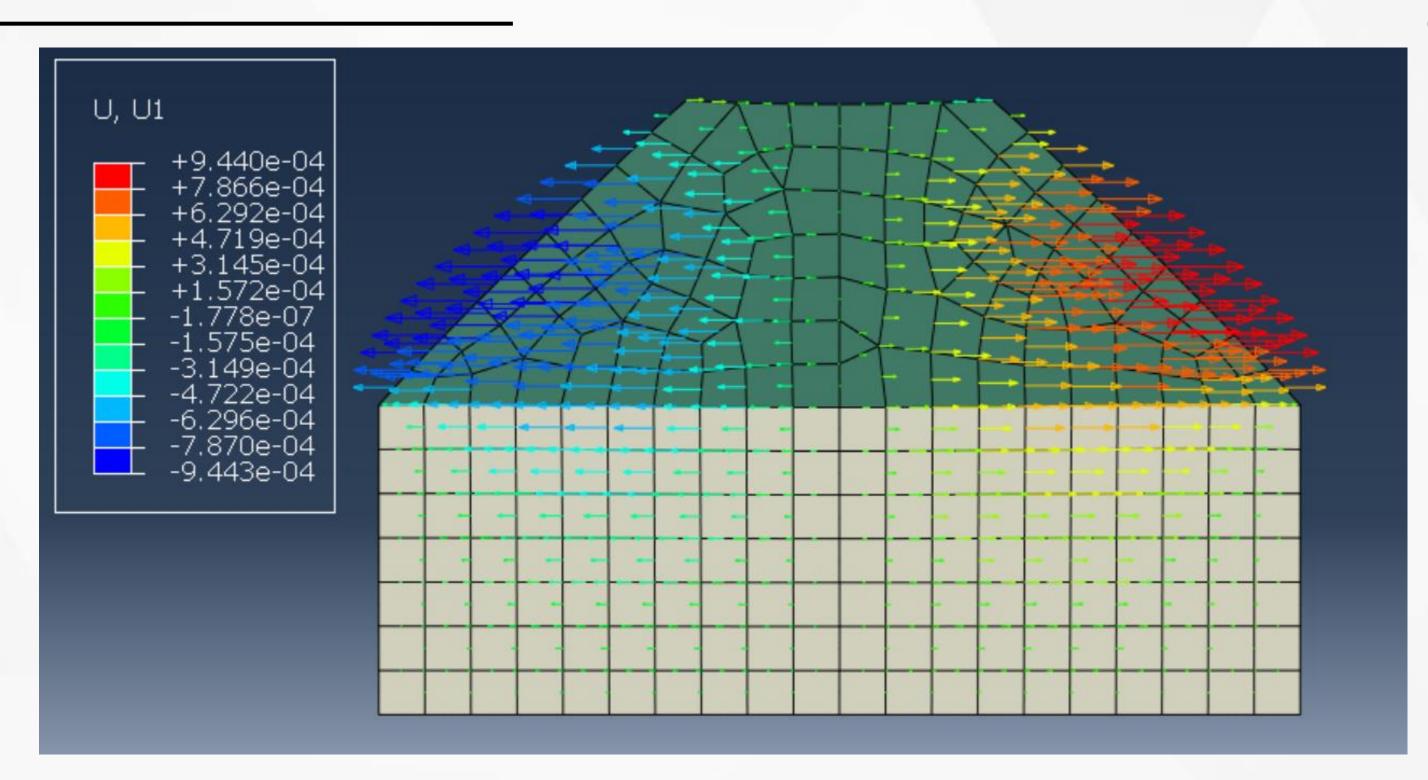
Boundary Conditions:
Base of the embankment is restricted in both x and Y directions
Sides of Embankments Are restricted in X direction



Visualizing Displacement of nodes (particle) in Vertical direction



Visualizing Displacement of nodes (particle) in Horizontal direction



Visualizing Displacement of nodes (particle)

