



GEOWALL

Aim: To construct a retaining wall model using cardboard, sand and ivory sheets.

Description: Geo wall is a cost-effective soil-retaining structure that can tolerate much larger settlements than reinforced concrete walls. By placing tensile reinforcing elements in the soil, the strength of the soil can be improved significantly.

This competition is derived from the GEOWALL competition which is organized in USA by American Society of Civil Engineers. The objective of the this competition is to design and build a model mechanically stabilized Earth (MSE) retaining wall using paper reinforcement taped to a wall (cardboard) facing.

Procedure:

There will be two rounds:-

Round 1 – There will be a Preliminary Quiz. Only 5 teams will qualify to the next round.

Round 2 – This round comprises of model making.

Problem Statement:

1. Each Team will have two members.
2. Participants will be given cardboard boxes. One side of these boxes will act as the retaining wall and paper reinforcement will be attached to it.
3. Retaining wall will have to support a backfill (soil mass which will be provided).

Judgment:

Load will be placed on each model and the one which will bear maximum load will win.



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