

Mechanically Stabilised Earth

COMPETITION DESCRIPTION

Mechanically stabilized earth or MSE is soil constructed with artificial reinforcing. It can be used for retaining walls, bridge abutments, seawalls, and dikes. MSE retains the soil under crest loads. The reinforcement improves the earth by increasing the bearing capacity of the soil and reduces the settlement. It also reduces the liquefaction behaviour of the soil. The construction of reinforced earth structure has become wide spread in Geotechnical engineering practice in the last two decades owing to their ease of construction and economy compared to those of conventional methods.

COMPETITION RULES

1. Each team will have 2 members.
2. The time limit to finish the challenge will be 30 minutes.
3. The teams will be given Reinforcement material, water and soil using which they will build a model of MSE.
4. Participants can choose the type and the number of reinforcement material from the various material provided to them.
5. A compression test will be done on every model in compression testing machine.
6. There will a quiz before the model making competition only 5 teams will qualify in the next round i.e. MSE model making round.

JUDGEMENT CRITERIA

Participants will be judged on the following two criteria: -

1. There will be points on the type and number of reinforcement material and number of glasses of water used which will be told prior to the model making.
2. The compressive strength of the earth block.

Competition Coordinator: -

Lovinder Mann, 9478179507

Kirti Singh, 9888039123.