



SHAKE IT UP



Introduction

SHAKE IT UP is an event where participants can present their earthquake-resistant building ideas, make models, and test these for stability in earthquakes. This time around, we have introduced a professional, state of the art shaking table.

You don't need to be a Civil Engineer to participate- SHAKE IT UP is a platform for learning and innovation for everyone.

Game Play

Qualifying Round

This will be a written elimination round consisting of questions on aptitude, basic questions related to earthquake & geology and basic civil engineering .

- Question sheets will be provided to the registered teams on a particular time.
- Sheets must be submitted within the time limit. No sheets will be accepted after the dead Line.

General Guidelines:

- Standard wooden ice cream Sticks (nearly 120mm X 12mm X 2mm), threads, and fevicol will be provided at the time of event
- The ceiling should be made of popsicle sticks.
- Height of building should be in between 40-50 cm. The height of a single floor should be at least 10cm.
- A cardboard will be provided as base for the structure the teams have to attach the structure to it.

- The base and ceiling of building should be of max 20cm x 20cm.
- Maximum number of sticks that can be used is 400.
- The thickness of adjacent sticks should not be more than thickness of 3 sticks.

Penalties:

- All teams will be given 250 points at starting.
- If the height of building is found less than 40 cm then 80 points will be deducted.
- Any other dimension of building not in specified dimension will result in deduction of 20 points.
- Use of any sticking material other than fevicol will lead to disqualification.
- Use of fevicol to provide strength to popsicles will lead to disqualification.
- If building does not meet the specified requirements then penalty will be imposed or team can be disqualified.
- Come to the event with a **fully prepared idea of construction of building** and make sure that the dimensions of each and every element are within range.
- If the floor height is less than 10 cm then 20 points for a single floor would be deducted.

Testing:

- All teams will start with 250 points – Penalty.
- Shaking table will be used to simulate earthquake.
- Some weight will be placed on structure and then tested for earthquake in this round.
- Finally the structure will be loaded and Load beared by the structure /weight of the structure ratio will be calculated.

Specifications

Team Size:

- The team can have at least **2** members and maximum **4** members.
- Register your team at www.blitzschlag.org

Judging Criteria

Model will be judged on the following basis:

- Originality & Innovation
- Technical Content
- Practical Applicability

Note: The decision of the judges and the organizers shall be final and abiding.

Prizes

Cash Prizes worth **8000 INR**

Contact us

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Schedule

Will be updated on website: www.blitzschlag.org

FB link- <https://www.facebook.com/shakeitupblitz/>

