

# BRIDGE BUILDERS

## Problem statement:

Participants have to design a Bridge using Popsicle sticks (ice cream sticks satisfying the given constraints.  
There will be only one round in which bridges will be tested.

Participants have to come with their bridges.

## Material Used:

- 1.Popsicle sticks with dimensions (11cm X 1.2cm X 0.2cm).
- 2.Only Fevicol can be used as adhesive, use of other adhesives may lead to disqualifications.
- 3.Use of thread is not allowed.

## Dimensions of Bridge:

- 1.Length: 56-60 cm
- 2.Width: 10-11 cm
- 3.Height: 11-15 cm
- 4.Clearance:  
A minimum clearance of 8 cm high and 5 cm wide should be provided for the passage of a small toy car.
- 5.Weight: Not More than 450gm.

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## Judging criteria:

Each bridge will be scored in accordance with an Efficiency Rating (ER) which will be calculated by the following equation:

$$ER = (\text{Load carried by bridge at failure}) / (\text{Weight of Bridge})$$

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