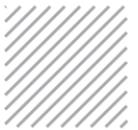


BRIDGE- 0 – NICS





INTRODUCTION:

Bridges have fascinated people since the dawn of time, when nature build many bridges in the form of trees fallen over rivers. As technology developed, people began to developed artificial bridges, where nature had not. Bridges are built out of a number of materials. Here you use Popsicle sticks as the material.

Why Popsicle sticks? Popsicle sticks are imperfect. Some may be bent and wrapped. Some or even may be brittle, thin and cracked. You must deal with this slight imperfections. By being limited to only Popsicle sticks and glue, you will need to use creativity, ingenuity and resourcefulness in order to maximize the strength of your bridge.

PROBLEM STATEMENT:

Design a bridge using Popsicle sticks satisfying the stated constraints.

MATERIALS:

1. Use Popsicle sticks provided by us. Sticks can have following dimensions
Length= 11 cm
Breadth = 1.2 cm
Width = 0.2 cm
2. Sticks can be altered physically by cutting or notching at any angle
3. Only fevicol can be used as adhesive, which will provide by us.
4. Use of threads is not allowed.

OVERALL DIMENSIONS:

The Popsicle bridge dimensions should be within the specified limits of,
Length= 60-62 cm
Breadth=10-11 cm
Height = 20-22 cm

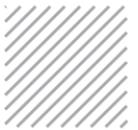
WEIGHT:

The self-weight of the bridge should be within 300 gm.

CONFIGURATION OF MODELS:

Clear distance- Length wise a 6 cm wide clearance must be there in the middle of the deck for load testing.



**STICKS:**

We will provide 200 no. of sticks to every group.

TEAM SIZE:

3 students max per team. Student from any stream can participate in the event.

SCORING:

Criteria-

Dimension (a) = 20%

Efficiency (b) = 50%

Aesthetics (c) = 30%

Total score, $s = a+b+c$

PENALTY:

1. Self-weight exceeds the limit. (Penalty of 20% from the total score.)
2. Dimensional specifications exceeds the limit. (Penalty of 10% from the total score.)
3. Uses of materials except the one stated in the rules. (Penalty of 50% from the total score and can lead to disqualification also.)

GENERAL RULES:

1. You need to come in time.
2. Carry your own rough sheet, if you want to draw anything related to the bridge.
3. No prototype will be allowed.
4. Carry your college ID card.

CO-ORDINATORS:

SAMBIT CHAKRABORTY – 8902290887 - chakrabortysambit40@gmail.com

ANJALI SINGH – 8340631807/9525564439

For any queries mail us at- bridgeonics@gmail.com

LOAD TESTING WILL BE DONE ON NEXT DAY.

FOR ANY KIND OF INFORMATIONS CONTACT THE COORDINATORS

