

PADRE CONCEICAO COLLEGE OF ENGINEERING, VERNA



Bridge building

Type : IntraCollege

Date-27 October 2022

Materials:

- **50 straws of 25 cm length.**
- **Cello Tape**
- **Glue (only fevicol to be used)**
- **Stapler if required**

Dimensions:

- **Width=8 to 10 cm**
- **Total length=40 cm max**
- **Total height= 15 cm max above the support.**
- **Roadway: 3cm max thickness.**

Duration:

60 minutes for building the bridge

Rules:

1. **A team should consist of maximum 5 members.**
2. **Tape or stapler should be used only on the joints and junctions of the straws and not on its entire length.**
3. **Taping the entire Roadway is not allowed.**
4. **Loading condions:**
The load will be applied vertically at the center of the bridge.
The load will be applied directly to the roadway.
5. **Support:**
Support will be provided for the bridge to sit on.Supports will be placed 30 cm apart.
6. **Weight:**
If there is a tie, bridge having minimum weight will be considered as the winner.

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Judging Criteria:

Round 1

Dimension round (Qualification Round)

Bridges which does not meet the given dimension or failing to abide by the above rules will be disqualified

Round 2

Load and look test

Judges will give marks out of 100 for the overall asthetics of the bridge. These marks will be added to maximum load bridge takes before collapsing.

The bridge with higher total points will be declared as winner

Eg- Marks for looks - 70

Total load taken - 1100gm

Total points - $1100+70=1170$

NOTE- Judges desicion will be final and no objections will be entertained after declaration of results.

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Instructions

- **Only straws will be provided.**
- **Not necessary to use all the straws.**
The team should join the Whatsapp group where all the other instructions and queries regarding the event will be answered.
- **Vehicle/ box must be able to pass through the entire length of the bridge with no obstruction.**

Prize Money:

1st Prize- Rs. 2000/-

2nd Prize- Rs. 1000/-

Registration form:

https://docs.google.com/forms/d/e/1FAIpQLScQGcfJAH-fcQMd9Gck20UBAPQmDHjggvgI4tm8YbXpv1OsIA/viewform?usp=pp_url

