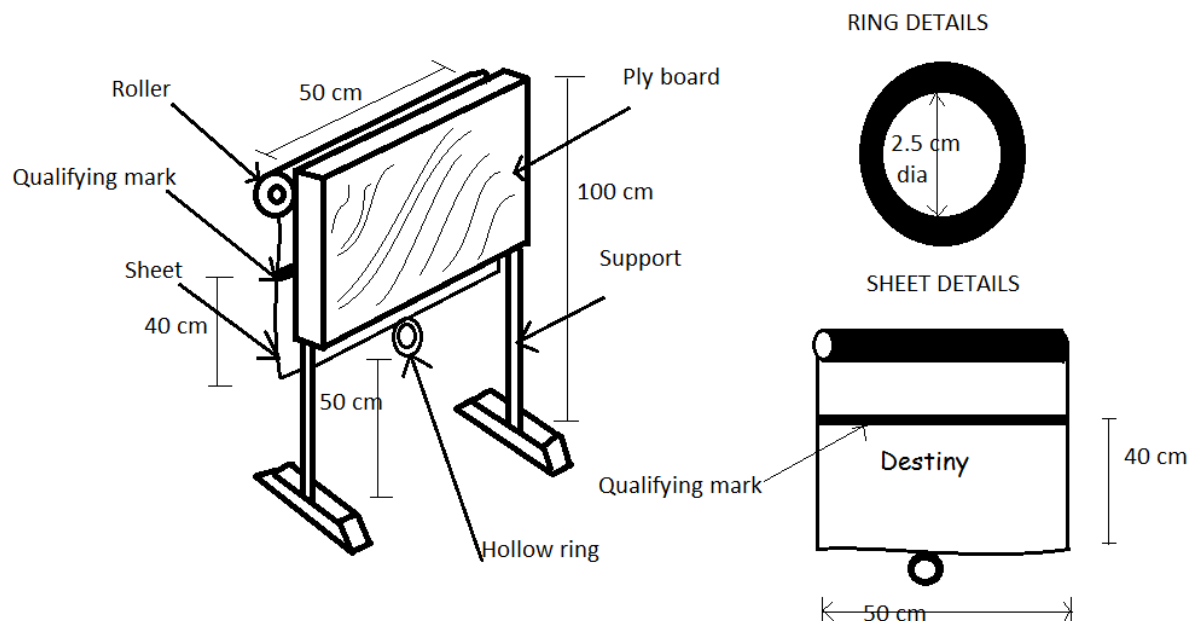


## **Problem Statement**



The participants are required to get the arrangement into the ring of diameter 2.5cm and then apply suitable downward force in order to unfold the flexible sheet. A qualifying mark is marked on the sheet at a distance of 40 cm from the end. The final task would be considered to be completed if and only if the qualifying mark comes down to the bottom of the ply board and is visible after unfolding. The final step arrangement should be at least 40cm from the final task arrangement.

## **Rules and Regulations**

1. Team should comprise of maximum 4 members.
2. Contraption should have minimum 15 steps. Each step contains fixed number of points; hence more the number of steps, greater is the chance of winning. Also maximum of 45 steps are allowed.
3. The maximum space given to the teams to complete their contraption is 8 feet x 8 feet.
4. Participants would be allowed to initiate only the first step and this energy conversion would NOT be counted.
5. Maximum interventions allowed during trial depends on number of steps as-

15 to 25 steps                      ----3 interventions

26 to 35 steps                      ----4 interventions

36 to 45 steps                      ----5 interventions

6. At maximum, teams would be given only one extra chance to start the contraption all over again. 50 bonus points would be given if task is completed in first run. Teams opting for second chance would not get the bonus points.
7. All the participating teams must submit an abstract (written or typed) regarding the steps involved in the working of their contraption. All the steps in the abstract should be explained with a flow diagram. The abstract should be submitted by hand only.
8. No alteration of any kind is allowed at any point of time in the event (that is your practical contraption should have the same steps as submitted in abstract). Otherwise 5 points for each alteration would be deducted.
9. Bonus of 10 points for each innovative step would be awarded.
10. Explosive materials and chemicals causing severe burn should not be used.
11. Judges decision shall be final and binding to all.

#### Basic materials provided:

- 220 Volts A.C. Supply

#### POINTS ALLOTMENT:

1. The point allocation for energy conversion are given below-

Mechanical energy                      ----15

Electrical energy                      ----20

Chemical energy                      ----30

Heat energy                      ----30

Electromagnetic energy                      ----30

Sound energy                      ----20

Light energy                      ----30

2. All teams completing their final task would be given 50(10+40) points.
3. The teams would be penalized 10 points for every intervention and no point would be given for the interrupted step.
4. Bonus points (50) would be awarded to teams which complete the final task in first trial.

5. Teams can use parallel paths and would be awarded 25 points for each set of parallel paths and maximum of two parallel steps is allowed.
6. No step should be repeated more than two times and maximum of five different steps can be repeated.

Abstract must have following steps:

- Blue print of contraption (with flow diagram/chart).
- Number of steps in the contraption (with explanation of each step).
- Originality of ideas and innovativeness.
- Abstract (flow diagram) should be made on full size chart paper (ED sheet) with their team name and members details.

## **SUBMISSION DETAILS**

The abstract should be submitted by 10 Jan, 2011 upto 8 pm without failure. Late submission would not be accepted.

## **CONTACTS**

**Rakesh Sharma -09034209287, Room No-123, H-9**

**Amit Kumar Dey -09034209268, Room No-434, H-9**