



Science
&
Technology
Council

TAKNEEK'14

Innovation At Its Best

August 28-31

Design-o-flare

Pool Event, open to all

Points: 40



The laboratory infrastructure and working philosophy provides the necessary platform for students to try out ideas, work with their own hands, iterate on designs, ideate and bring concepts to fruition, apply the principles they have learned in the classrooms, and above all, enjoy being part of our creative universe. Moreover as we embark upon our responsibilities towards societal needs and aspirations, we plan to hold one competition to let out your manufacturing potential and cast them into solving some serious issues using the resources and technology.



Overview

Preparing the paddy field for planting is an interesting (and mucky) business. An elaborate network of channels and pipelines brings the water to flood the paddy field and form a deep layer of soft mud, which has to be leveled so that all parts get the same treatment.

The seedlings are then grown in trays, in a sort of fibre matting, until they are ready for planting out. After these are ready for planting out, each one of them is manually put into the water at specific distance and then allowed to grow.

So, this manual picking of each paddy plant and sowing it takes considerable amount of time and energy.



Task Details

Make a machine design that shall serve the purpose of nibbling out one paddy plant from the tray and sowing it at required distances.

Specifications

- The animation of the machine has to be shown.
- The design can be made on any of the design software, provided that constrained motion animation has to be shown and explained.
- A printed report of part drawings and sub-assembly has to be submitted to the panel of jury.

Judging Criteria

The overall design shall be judged on the basis of following parameters:

- **Working** Animation Design Model (40%)
- **Innovative** Features (20%)
- **Energy** Efficiency (20%)
- **Report and Presentation** (20%)

Registration

One team from each pool has to register by filling up the following google form:

https://docs.google.com/forms/d/1PZi_H7Z0vyUea3ym2Pq7-G2vydRvEFOcalb_q_tmYOY/viewform



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Important dates

- 19th August: Last Date of Event Registration
- 29th August: Last Date of submission of part drawings report
- 30th August: Presentation in front of panel of jury (comprising of IIT Kanpur faculty members)

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