

One of the most famous games at one time, Farmville has caught our eyes multiple times. We've spent hours taking care of our virtual farms, ploughing it, nurturing it, and making tons of virtual money out of it. Now is your chance to use your knowledge of Agricultural and Food Engineering that you've gathered over the years, and put them into play and be a Modern Farmer. Prakriti 2019 brings to you Farmville.

You've been allotted 100 acres of land in the Nashik district of Maharashtra. Starting from the month of April-May, your objective is to make maximum profits in the next two years, keeping in mind the sustainability of the soil and environment. Keep in mind the following constraints to fulfil the objectives:

- 1) You have 1.5 Cr initial investment as cash.
- 2) Labour is available in Nashik at Rs. 300/day.
- 3) The soil properties are as follows:
  - % sand: 39.5%
  - % silt: 37.5%
  - % clay: 20.75%
  - Bulk Density: 1.29 g/cm<sup>3</sup>
  - Porosity: 50.96%
  - EC: 0.2 dSm<sup>-1</sup>
  - pH: 7.1

Your objectives are as follows:

- 1) Give a detailed analysis of how are you going to utilize the land, keeping in mind sustainability. You will be judged on the basis of maximizing profits and your approach towards sustainability.
- 2) Mention the necessary requirements needed during the two years.
- 3) Forecast the cash-flow statements, mentioning the final profits earned.

Assume the following:

- 1) Water is available as groundwater and can be extracted through pumps. Use judiciously.
- 2) Machinery, inputs, and equipment can be bought at the Market price.
- 3) The weather conditions and rainfall are to be assumed as per meteorological data of Nashik.

Happy farming!

**Rules:**

1. Teams must consist of a minimum of 2 and maximum of 5 participants.
2. The event is open for participation from students of all departments.
3. The event will be conducted in two phases: Online submission of abstract Final presentation by shortlisted teams at IIT Kharagpur
4. Shortlisted teams from abstract submission round have to present their ideas in the form of PowerPoint presentation during Prakriti 2019 at IIT Kharagpur.
5. The abstract should be submitted as a powerpoint presentation of not more than 10 slides, excluding the first page and the last page.
6. Relevant statistics can be added to support your claim (you may add extra slides as appendix to include stats, images)
7. Mail your submissions to [prakritikgp@gmail.com](mailto:prakritikgp@gmail.com) with subject as "Farmville Submission" on or before 13th March 2019, 11:59PM.
8. All the teams are requested to provide contact numbers, Email IDs and name of the college of each member along with the attached submission file in the mail.
9. The results of first round shall be given to the above listed emails and mobile numbers.
10. The decision of judges shall be final and binding.

**Contact Details**

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