DSRFP-2022 POSTER COMPETITION
Themes 2 - 5

THEME #2: SMART GREEN HOUSE

- *Multi-climatic green house, which will the epicenter of ideation and incubation for new technology based agricultural practices.*
- *Crops such as tomato, pepper, broccoli and other off-season crops such as cucumbers could be cultivated in these polyhouses.*
- *Platforms for experimenting on IoT and AI can create sectors on Agri-counselling to facilitate agri-entrepreneurs and existing farmers to take informed decisions with minimal risks.*

THEME #3: IOT AND AI BASED TECHNOLOGY DEVELOPMENT PLATFORMS

- *AI will help farmers evolve into agricultural technologists,*
- *Using data to optimize yields down to individual rows of plants.*
- *Farmers without connectivity can get AI benefits right now, with tools as simple as an SMS-enabled phone and the Sowing App.*
- *Meanwhile, with IoT- and AI-driven solutions, farmers can meet the needs for increased food sustainability—growing production and revenues without depleting precious natural resources.*

THEME #4: KNOWLEDGE AND SKILLS BUILDING OF FARMERS

- *Residential training program including training hall with state-of-the-art multimedia facilities, residential hostel and library.*
- *Hitech Multi-Climatic Zone Greenhouse Training Centre and Multi-Skilled Centre on polynet houses, through its products and services to address the needs of students, entrepreneurs, farmers targeting the vegetables/flower markets, organic cultivation, food processing sector, IOT products and renewable energy-based products.*

THEME #5: POWER PRODUCTION

- *Renewable energy and farming as a winning combination. Wind, solar, and biomass energy can be harvested forever providing farmers with a long-term source of income.*
- *Renewable energy can be used on the farm to replace other fuels or sold as a "cash crop."*
- *The practice of co-locating the two by planting crops under the shade of solar panels is called agri-voltaics, in which the environment under the panels is much cooler in the summer and stays warmer in the winters. This not only lessens rates of evaporation of irrigation waters in the summer, but it also means that plants don't get as stressed out.*
- *Crops that grow under lower drought stress require less water, and because they don't wilt as easily midday due to heat, they are able to photosynthesize longer and grow more efficiently.*
- *Development of solar powered value chain machinery for agriculture and dairying for empowering farmers.*

You are required to do the following:

1. **Think of a novel idea that would help achieve the desired objective of the Theme.**

2. Prepare a poster to depict the idea in any form ex. using Powerpoint and then save it in pdf format.

3. Submit it in pdf form on the DEI website, with the file named:
   Theme No.-Name-Class-Date

4. Submission deadline: June 30, 2022.