



VIGNAN'S
Foundation for Science, Technology & Research
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Global Conference on

Climate Smart Agriculture

**Department of Agricultural and Horticultural Sciences
Vignan's Foundation for Science, Technology and Research (VFSTR)**

with technical collaboration of

International Crops Research Institute for Semi Arid Tropics (ICRISAT)

Asia-Pacific Association of Agricultural Research Institutions (APAARI)

Plant Protection Association of India (PPAI)

Dr. Y.S.R. Horticultural University

Dates of the event : December 1st – 3rd 2022 (Tentative)

Place of the event : Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur (Dt.), A. P, India.

About the event

A growing global population and changing diets are driving up the demand for food. Production is struggling to keep up as crop yields level off in many parts of the world, ocean health declines, and natural resources like soil, water, and biodiversity are stretched dangerously thin. The food security challenge will only become more difficult, as the world will need to produce about 70 per cent more food by 2050 to feed an estimated 9 billion people.

The challenge is intensified by agriculture's extreme vulnerability to climate change. Climate change is already imperilling the livelihoods of farmers around the globe by exacerbating droughts, heat waves, floods and other extreme-weather events, as well as creating an influx of invasive pests and diseases. On farms, climate change is reducing crop yields, the nutritional quality of major cereals, and lowering livestock productivity. Dryland agriculture is particularly vulnerable to drought.

According to FAO, emissions from the agriculture, forestry and other land use (AFOLU) sector directly accounted for 22 per cent of total GHG emissions. Additionally, 1/3 of



food produced globally is either lost or wasted. Addressing food loss and waste is also critical to helping meet climate goals and reduce stress on the environment.

Agriculture must therefore transform itself if it is to feed a growing global population and provide the basis for economic growth and poverty reduction. Climate change will make this task more difficult.

Climate-smart agriculture (CSA) is an approach that helps guide actions to transform agri-food systems towards green and climate-resilient practices. Climate-smart agriculture is concerned with moving the agriculture sector forward in order to achieve sustainable development (economic, social and environmental), while at the same time addressing food security and climate challenges.

CSA supports Sustainable Development Goals (SDGs) and aims to tackle three main objectives viz,

Sustainably increasing agricultural productivity

Adapting and building resilience to climate change

Reducing / removing greenhouse gas emissions

With this backdrop, there is a need to discuss threadbare with all stakeholders globally to attain the objectives of Climate Smart Agriculture and in-turn to help the farming community and to protect the environment.

About VFSTR

Vignan's Foundation for Science, Technology and Research is a renowned institution which provides quality education in a diverse and intellectual stimulating environment. It imparts value addition training to students to make them competent and inspired. The institution celebrates the power of knowledge, cultivates vision, and encourages new ideas, besides aiming to inculcate human values and instil social consciousness among its students.

The institution is well known for its dedicated faculty, state-of-the-art infrastructure, and good learning outcomes. As a university, it is in the process of improving its standards to the level of a global technical institution. Living up to its motto, 'Technology with a



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Human Face', the institution imparts knowledge and skills, while instilling human values and awareness about self and society. In a recent nationwide survey of Indian Universities carried out by NIRF, VFSTR was placed at 97th rank in 2021. The University is ISO certified and has been accredited with **NAAC A⁺** Grade in 2020.

“The exact dates, subthemes, important dates (Registration and Paper submission), registration process, keynote speakers, lead speakers and invited speakers subtheme wise will also be updated soon”

Contact person:

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