

International Training Programme on “Agricultural Engineering Technologies for Enhancing Productivity and Profitability in Agricultural Sector”
04-15 December 2022, Bhopal, India

- Title of the Course** : Agricultural Engineering Technologies for Enhancing Productivity and Profitability in Agriculture Sector
- Sponsoring Organization** : African Asian Rural Development Organization (AARDO) with support of the Ministry of Rural development, Government of India
- Training Institute (Host)** : ICAR-Central Institute of Agricultural Engineering, Bhopal, India (<https://ciae.icar.gov.in/>)
- Duration** : 04- 15 December 2022, (12 days including arrival and departure)
- Deadline for Application** : 07 November 2022.

About the AARDO

AARDO, established in 1962, is an Inter-Governmental rural centric Organization consisting of 34 Members, i.e; 32 countries Governments and 02 Associate Members from Africa and Asia working in the area of agriculture and rural development. It subscribes to the spirit of South-South and Triangular cooperation and African Asian Solidarity. With its nearly 60 years of experience, AARDO, as a policy advocacy institution, remains at the forefront of focused SDGs in rural areas through different and evolving forms, including technical cooperation, sharing of knowledge and experiences, training, capacity building and technology transfer on mutually agreed terms

About the Host Training Institute (CIAE)

ICAR - Central Institute of Agricultural Engineering Bhopal, a premier agricultural engineering institution in India, is devoted to promote mechanization of different facets of agriculture to enhance agricultural productivity, reduce drudgery of agricultural workers, minimise post-harvest losses, produce value added quality products and create employment opportunities in the rural sector. The institute is mandated to carry out research on agricultural mechanization, post-harvest processing of agricultural commodities, efficient water utilization for agriculture and energy management in agriculture. Human resource development and capacity building through outreach and training programs, and commercialization and utilization of agricultural engineering technologies are the other important areas addressed by the institute. Stakeholders of the institute are spread across globe, especially among the nations supporting small farm agriculture through limited resources. Over more than four decades of its existence, ICAR-CIAE has developed many technologies highly relevant to marginal, small and medium land holdings.

Introduction

Engineering interventions are essential in today's agriculture to ensure timeliness of farm operations, precise and judicious use of inputs, drudgery reduction, handling, storage, value addition to farm produce, and conversion of surplus biomass into bio-fuels and other value added products. Changing climatic pattern and shortage of farm workers will require mechanization approach in agriculture to ensure farm operations in limited available time, and to safeguard farmers from vagaries of uncertain climatic conditions. Mechanization in developed world has helped in achieving precision in metering and placement of inputs for better crop stand, better response to inputs and increased productivity. The total farm power availability has direct correlation with productivity of farms.

The farmers in developing countries have limited access to the latest equipment and technology. This results in high production cost and difficulty in competing in international market for sale of surplus produce. There are wide technology gaps in meeting the needs of various cropping systems and regions. To achieve higher production levels, the quality of operations like seedbed preparation, sowing, application of fertilizer, chemicals and irrigation water, weeding, harvesting and threshing will have to be improved by using precision and efficient equipment. A well laid out programme on effective agricultural mechanization, utilization of crop residues and processing of agro-produces will help in increasing farmers income, employment generation, and environmental sustainability in developing countries.

Main Thematics

- **Agricultural Mechanization including Precision Agriculture–Manual, Animal, Power Operated and Automated Equipment for:** *Land-Preparation, Testing of Land, Seeding & planting, Plant Protection, Harvesting and threshing;*
- **Post-harvest Mechanization:** *Value Addition Technologies, Packaging, Management of Distribution and Storage of Food;*
- **Irrigation & Drainage Technologies:** *Irrigation and Agricultural Drainage Technologies, Micro-Irrigation Systems;*
- **Food Safety Management:** *Nutritional Aspect in Value Addition, Challenges and Regulation of Value Addition Food.*
- **On-farm Energy Management and Production:** *Solar Energy, Bio-mass based Energy.*
- **Agricultural Mechanization Strategies:** *Machine Manufacturing, Government Support and Schemes, Economics and Marketing.*

Methodology

Training methodology includes lectures by qualified and experienced resource persons followed by discussions, case studies, country report presentations by the participants, and experience sharing. Field visits will also be arranged for the demonstration of some of the successful

interventions. The training has been structured to sensitize the participants on Agricultural Engineering Technologies for Enhancing Productivity and Profitability in Agricultural Sector. Participative approach will be adopted to provide an opportunity to participants to share their experiences through discussions and brainstorming sessions on issues related to Agricultural Engineering Technologies for Enhancing Productivity and Profitability.

How to Apply:

The nominees are required to apply online through the link: <http://aardo.org/aardot.php>. After duly filling the details and submission of the form, the nominee needs to download the duly filled in form, get it endorsed by the nodal Ministry of AARDO and forwarded to AARDO through the email: researchdivision_aardo2013@yahoo.com latest by **31 October 2022**, along with the nomination/recommendation letter and scanned copy of the passport. The form must be completed in all aspects. Incomplete/incorrect information may lead to rejection of application.

Visa & Air Tickets:

AARDO will assist in obtaining visa from Missions of India located in respective countries of the participants. Air Tickets will be issued by AARDO on confirmation of Visa to attend the programme.

Important Note:

- Applications without recommendation of Nodal Ministry will not to be considered.
- Due to limitation for participants, only selected candidates would be intimated through the Nodal Ministry.

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