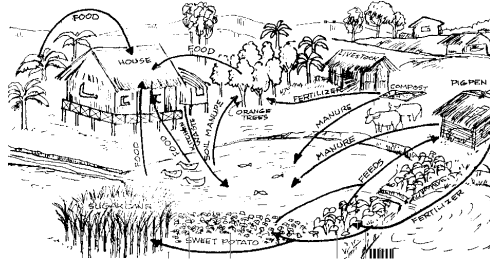


ToT Programme on  
**'Role of Farm Mechanization in Doubling Farmer's Income'**  
(August 09 – 11, 2021)



Last Date for Registration: **August 05, 2021**

**Venue:** Online / Virtual Mode



**Centre for Wage Employment and Livelihoods**  
**NATIONAL INSTITUTE OF RURAL DEVELOPMENT & PANCHAYATI RAJ**  
**Rajendranagar, Hyderabad - 500 030**

## **NEED**

Right from the time of creation, man was charged to 'increase, multiply and subdue' the earth. Thus man has continually sought to improve the quality of life by transforming nature to provide food and better living conditions for a long life.

The Indian economy is predominantly rural and agricultural. Agriculture and technology are part of the Tools used to accomplish this transformation and achieve many of the man's goals. The declining trend in size of land holding poses a serious challenge to the sustainability and profitability of farming.

The problem is easy to understand and difficult to resolve. In 2030 the population will be 9 billion inhabitants, against 7 billion today. A growth which, according to the FAO, will entail a 70% increase in agricultural production by 2050. Only the introduction of effective solutions that allow farmers to improve productivity while preserving resources will enable to meet this challenge.

Through mechanization and other tools of modern technology man has been cultivating crops and rearing animals for his food needs and carries out other sundry activities – all in a bid to make his life happy and comfortable. The Government has introduced several schemes and policies that support greater mechanization of Indian Agriculture, in the light of its commitment to transform the agriculture sector and double farmers' income by 2022-23. The Sub Mission on Agricultural Mechanization (SMAM) is an important initiative of the Government, in this direction. The focus on farm mechanization is driven by the need for enhancing agriculture productivity and availability of food grains; increasing agriculture exports; mitigating labour shortage; and facilitating judicious use of scarce natural resources and farm inputs.

As the focus on farm mechanization is driven by the need for enhancing agricultural productivity and availability of food grains, the growth of farm mechanization sector is impeded by some of the characteristics of Indian agriculture such as fragmentation of land holdings, a large presence of small and marginal farmers, ill-affordability of farm technology and the practising of subsistence agriculture. Agriculture Mechanization is crucial for modernization and commercialization of agriculture as it improves productivity and timeliness of agriculture operations, aids in value addition, brings down the cost of cultivation and enables climate change adaptation.

Technological improvements in Indian agriculture since the mid-sixties have enabled a substantial increase in food grains production. Yet, farm mechanization is at various stages of adoption in India. The use of improved farm implements has the potential to increase productivity by up to 30 per cent and reduce the cost of cultivation by up to 20 per cent.

About 85 % of the total land holdings are small and marginal in size, and hence require appropriately designed machinery, tools and implements. Recognizing the special needs of mechanizing marginal and small land holdings, and with a view to making farm mechanization affordable by small and marginal farmers, a Sub Mission on Agricultural Mechanization (SMAM) has been launched by Government of India in the year 2014-15. Major components of SMAM are promotion of agriculture mechanization through training, testing and demonstration; dissemination of Post-Harvest Technology and Management (PHTM); establishment of Farm Machinery and Equipment banks for custom hiring; and financial assistance for promotion of mechanized operations.

Government of India has been encouraging mechanization through various policy interventions. However, greater impetus is needed to develop need based and area specific farm machinery for the country.

Technological innovation in farm equipment sector is one lever that can catapult Indian Agriculture to next level.

## **OBJECTIVES**

- (i). to help in better understanding of the broad scope for farm mechanization under Indian context,
- (ii). to provide advance training and improve the professional competence, knowledge and skill in the area of farm Mechanization,
- (iii). to share with the trainees, the advances and appropriate technologies for agricultural production,
- (iv). to promote better understanding and realization of the need for women friendly tools and implements, and
- (v). to develop human resource capabilities of research and extension personnel on Farm Mechanization

## **COURSE CONTENT**

The course would broadly cover the following topics:

- (i). Sustainable Agriculture: Importance and Concept
- (ii). Crop and Area specific Farm Mechanization
- (iii). Potential technologies for labour substitution
- (iv). Schemes of the Central Government
- (v). Role of Institutions in providing credit support
- (vi). Efficient energy management technologies

## **TRAINING METHODOLOGY**

Programme would be on virtual / online mode using webex platform. It could comprise of Powerpoint presentations, Video films, lecture cum discussion sessions on best practices. Based on the attendance and on assessment of the understanding of the contents by the participants, E – certificates would be issued at the end of the programme.

The medium of instructions is Hindi and English. Therefore, the candidates should be able to understand, express, read or write these languages

## **PARTICIPANTS**

The State, District and Block level officers of Government Departments of Agriculture, Horticulture, Soil Conservation, Forestry, Animal Husbandry and Fisheries, Scientists of KVKs and SAUs, and

Voluntary agencies engaged in extension, teaching, research and consultancy in agriculture. Officials of SIRDs, RIRDS (ETCs), SRLMs, SMMUs, DMMUs.

### **DURATION**

The programme is scheduled from **August 09 – 12, 2021 on virtual mode**. The link would be shared with the participants on their Email, well in advance so as to ensure their participation from the beginning.

### **PROGRAMME FEE**

There is no fee. The last date for registration is **August 05, 2021**

Click the following link to register for the programme

<https://forms.gle/JwcgMS1wuUJh61Zb9>

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