



EDP Training cum Workshop
on

**Entrepreneurship Prospects for
Machine Manufacturing for Fodder
Production, Processing and Utilization**



01-05 July, 2024

Organized by
Agri-Business Incubation Centre (ABIC)
ICAR-Indian Grassland and Fodder Research Institute, Jhansi - 284 003

Under

NAIF - II Project
Intellectual Property & Technology Management
Indian Council of Agricultural Research, New Delhi



ICAR-Indian Grassland & Fodder Research Institute
Gwalior Road, Jhansi – 284 003 (UP)

About the Programme

Agricultural machinery relates to the different tools, implements and machines used in farming or other agriculture operations. There are many types of such equipments and machines, from hand tools and power tools to tractors and self-propelled machines that are operated in field. Diverse arrays of equipment are used in both organic and nonorganic farming. Especially since the advent of mechanized agriculture, agricultural machinery is an indispensable part of how the world is fed. Agricultural machinery can be regarded as part of wider agricultural automation technologies, which includes the more advanced digital equipment and robotics. While agricultural robots have the potential to automate the three key steps involved in any agricultural operation (diagnosis, decision-making and performing), conventional motorized machinery is used principally to automate only the performing step where diagnosis and decision-making are conducted by humans based on observations and experience.

Government is also supporting mechanized fodder production through National Livestock Mission in the country wherein financial assistance is provided for seed production of high yielding fodder varieties. Entrepreneurship development programme of NLM are also being implemented for the establishment of fodder blocks/hay bailing/silage units by providing 50% subsidy up to Rs.50 lakh. Further, Department of Agriculture & Farmers Welfare has designated National Dairy Development Board (NDDB) as implementing agency under the scheme of Formation and Promotion of 10,000 Farmer Producer organizations (FPOs) to form and promote 100 FPOs, primarily fodder centric and animal husbandry activities as a secondary activity. These Fodder plus FPOs would engage in various fodder development activities such as machine manufacturing and supply, provide advisory services to the clientele, green fodder/silage production and sale, production of 'ready-to-eat' TMR, securing crop residues & its sale and also take up other animal husbandry activities, thereby providing market access to small and marginal farmers. Therefore proper training is required before going into the any kind of such business.

In this view, Agribusiness Incubation Centre of ICAR-IGFRI, Jhansi is going to conduct a five days training on Entrepreneurship Development in Machine Manufacturing for Fodder Production, Processing and Utilization. This training will cover design aspects and machine manufacturing practices in fodder production, processing and utilization including agronomic practices, harvesting and chaffing, product development etc. with the sole objective to develop a commercially viable enterprise of machine manufacturing and its marketing. Therefore, the training is tailored to ensure different stake holders to develop understanding/ ideas about selection of proper machines in various agricultural operations with their technical details, machine manufacturing process and their use and make them self-reliant in production and marketing of their products. This training will also support the startups to enter into a new venture of 'Agri-Business' for interested clients/ farmers/ entrepreneurs in developing their own business for supply and manufacturing different machines to their clientele.

Objectives

1. To apprise and sensitize the participants about the selection of different machines in different agricultural practices
2. To develop entrepreneurship in Machine Manufacturing

Concepts

The mechanization in fodder production is yet to achieve its full potential as compared traditional and cash crops. This training is being organized to explore the possibilities of entrepreneurship in machinery use in fodder crops. This training will provides the knowledge on mechanization in fodder production and processing, economics of mechanization in fodder production, practical aspects on green fodder production and fodder products including TMR, feed pellets, leaf meal and silage. This training will cover design aspects and machine manufacturing practices in fodder production, processing and utilization including agronomic practices, harvesting and chaffing, product development etc. with the sole objective to develop a commercially viable enterprise of machine manufacturing and its marketing.

Course contents

The entire course curriculum would emphasize upon the theoretical and practical aspects of machinery use in green fodder production and processing.

Demonstrations / hand-on experience and visits

Practical visit to institute central farm, Institute dairy and machinery workshop, laboratories, Experimental fields of IGRI and Sister Institutes, Industries under Bundelkhand Chambers of Commerce. Hand on training on machine design, manufacturing, operations, care and maintenance will also be covered.

Expert Team

Agriculture Structures and Process Engineering	:	Dr. SK Singh, Dr. PK Pathak
Farm Machinery and Power	:	Er. Amit Kumar Patil
Land Management Engineering	:	Er. Ajay N. Satpute
Livestock production Management	:	Dr. Deepak Upadhyay
Agricultural Economics	:	Dr. Bishwa Bhaskar
Agronomy	:	Dr. DR Palsaniya
Seed Technology	:	Dr. Awanindra Kumar Singh
Commercial, financial and corporate management	:	IPTM Unit/Agri-Innovate ICAR New Delhi/ Bundelkhand Chambers of Commerce
Aspects on machine design and manufacturing process	:	Experts from ICAR-CIAE, Bhopal.

Important Dates

Last date for receipt of nomination : 24th June, 2024
Intimation to selected candidates : 25th June, 2024
Training Period : 01-05 July, 2024

Registration fee (Only for 12 selected candidates): Rs. 1000/- (to be deposit after final list of selected candidates is approved)

Who can apply?

Farmers/Entrepreneurs/ FPOs/SHGs/NGOs or any individuals interested in selection, use and manufacturing of Agricultural Machines for entrepreneurship development can apply. However, the total number of participants per batch will be restricted to 12 on first-cum-first serve basis.

How to apply?

Farmers/Entrepreneurs/ FPOs/SHGs/NGOs or any individuals are suggested to fill google form (Link- <https://forms.gle/bDkD5Z69MLyHc8Nu7>). Only On-Line Nominations are accepted. Besides filling google form, nominations will also be accepted through e-mail (abic.igfri@gmail.com). However, the format as appeared on google link and given below will only be considered.

Travel, Boarding and Lodging

To and Fro fare up to ICAR-IGFRI, Jhansi and other expenditures will be borne by individual himself/herself or his/her sponsored organization. However, stay and working Lunch will be provided in PG Hostel of ICAR-IGFRI, Jhansi by Agri Business Incubation Centre of IGFRI, Jhansi.

Venue

Indian Grassland and Fodder Research Institute(IGFRI), Jhansi is a premier Institute conducting basic, strategic and applied research on various aspects of grassland, rangeland and fodder. Jhansi is well connected by rail network from all major railway stations of the country. IGFRI is located 10 km from Jhansi Railway Station and 12 km from Bus Stand on Jhansi - Gwalior highway, locally known as 'Grassland'.

Course Director

Dr. Prabha Kant Pathak,
Principal Scientist and PI ABIC, ICAR-IGFRI, Jhansi

Course Coordinator

Dr Sanjay Kumar Singh,
Principal Scientist and Head FMPHT Division, ICAR-IGFRI, Jhansi

Course co-coordinator

Er. Amit Kumar Patil, Scientist (Farm Machinery & Power)
Er. Ajay N. Satpute, Scientist (Land management Engineering)
Dr. Deepak Upadhyay, Scientist (Livestock production Management)

For further details contact

1. Dr Prabha Kant Pathak, Principal Scientist & Principal Investigator (Agri Business Incubation Centre)
Mobile No.: 9450078170
Email: pkpathak65@gmail.com
2. Dr. Deepak Upadhyay, Scientist (SS) & Co-Principal Investigator (ABI Centre)
Mobile No.: 8791166338
Email: dpkvet@gmail.com

Application form for participation

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on

**“Entrepreneurship Prospects for Machine Manufacturing for Fodder Production,
Processing and Utilization”**

(01-05 July 2024)

1. Name	:	
2. Father's name	:	
3. Designation	:	
4. Date of birth	:	
5. Aadhar No.	:	
6. Sex (M/F)	:	
7. Educational qualification	:	
8. Nature of work experience	:	
9. Address for correspondence	:	
City with pin code	:	
Telephone/mobile No.	:	
Email	:	

Date:
Place:

Signature of applicant