



75
Azadi Ka
Amrit Mahotsav



IGFRI Diamond Jubilee Online Lecture Series-2022 on

“Entrepreneurship Development in Processing Fodder and Allied Crops”



Organized by



Agri-Business Incubation Centre

ICAR-Indian Grassland and Fodder Research Institute, Jhansi - 284 003



In Collaboration with
Indian Society of Agricultural Engineers, New Delhi
&
Range Management Society of India, Jhansi



About the programme

India is one of the key producers of food grain, oilseed, sugarcane and other agricultural products including fruits and vegetables. Agricultural crops generate considerable amounts of leftover residues, which increases with increase in food production. These leftover residues exhibit not only resource loss but also a missed opportunity to improve a farmer's income. The use of crop residues in various fields are being explored by researchers across the world in areas such as power generation, biogas production, animal feed, compost and manures, etc. The increasing trend in addition of bio-energy generation plants, increasing demand for animal feedstock and increasing trend for organic agriculture indicates a competitive opportunity for crop residue in agriculture and dairy sector. It is to be noted that the use of this left-over residue is often not mutually exclusive which makes measurement of its economic value more difficult. For example, straw can be used as animal bedding and thereafter as a crop fertilizer. Similarly, many more allied crops, agro-industrial wastes etc. could have been processed to add value for developing various new products. In view of this, the main aim of this lecture series is envisaged to know about the opportunities in entrepreneurship development in fodder and allied crops and open new vista in processing sector.

The ICAR-Indian Grassland and Fodder Research Institute, Jhansi, a premier research institute involved in forage and grassland research, development and extension in India is celebrating its Diamond Jubilee year during 2022. To commemorate with the celebration of 75th Independence Day of India as 'Azadi Ka Amrit Mahotsav' and also the Diamond Jubilee year of ICAR-IGFRI, this lecture series is being organized. This initiative of ABIC, IGFRI, Jhansi in collaboration with ISAE and RMSI will open new avenues for forage-based entrepreneurship and will play an important role in ATMA NIRBHAR BHARAT.

Audience	: Members of ISAE and RMSI, Entrepreneurs, Incubatee of different ABICs, Start-ups, Students, Scientists and Faculty of CAUs & SAUs
Official Language	: English
Tentative Dates	: 3 rd Saturday of Every Month starting from 23 rd April 2022 to 31 st October 2022
Timing	: 2:30 PM to 4:30 PM
Venue	: Agri-Business Incubation Centre, ICAR-Indian Grassland and Fodder Research Institute, Jhansi - 284 003 through On-line Zoom Platform*. *The link will be widely circulated in each month with flyer of upcoming lectures.

About the Organizers :

ICAR-IGFRI, Jhansi

ICAR- Indian Grassland and Fodder Research Institute, a national Institute under the administrative control of Indian Council of Agricultural Research, is mandated to conduct basic, strategic, applied and adaptive research; development and training in forage production and it's utilization. The Institute has highly experienced and internationally trained human resources engaged in need-led, participatory, inter-disciplinary approaches. With about 60 years of experience in forage research and development, IGFRI today stands as the premier R&D institution in South Asia for sustainable agriculture through quality forage production for improved animal productivity. The IGFRI, established in 1962, has been instrumental in fostering research, training and extension programmes

on all aspects of forage production and utilization through inter-disciplinary approach. It has seven divisions to support the research activities viz. Crop Improvement Division, Crop Production Division, Grassland and Silvi-Pasture Management Division, Plant Animal Relationship Division, Seed Technology Division, Farm Machinery & Post-Harvest Technology Division and Social Science Division. It is providing technologies, human resource development skills, consultancy and technical services on forage production and utilization to government and non-government organizations, agri-business and farmers. It has three Regional Stations to cater to forage related location specific R&D needs of humid tropics (Dharwad), semi-arid and arid (Avikanagar) and temperate (Srinagar/ Palampur). For improvement in forages and generation of location specific appropriate technologies for boosting forage production in diverse agro-ecological regions of the country ICAR has also established a multi-disciplinary, multi-location scheme i.e. AICRP on Forage Crops at ICAR-IGFRI Jhansi in 1970.

ISAE, New Delhi

The Indian Society of Agricultural Engineers (ISAE) was established in 1960 with an objective to strengthen the profession by bringing together agricultural engineers of the country on one vibrant platform. The society has played a vital role in developing well-defined linkages between agriculture sector and industry and has facilitated in broader participation of its members in professional activities so as to give a boost to the agricultural production and post-production sectors. The Agricultural Engineers have been immensely contributing in the field of farm mechanization, irrigation, drainage, soil-water conservation, watershed management, flood and water control systems, command area development, post-harvest management, agro-processing and value addition, managing agricultural structures, environment control, renewable energy generation and other domains directly associated to agricultural productivity and farmers' income. Indian Society of Agricultural Engineers with a mandate to organize regional, national and international meets and Annual conventions of the society enable multiple stakeholders, national and international experts to discuss challenges and opportunities in the research, education, extension, industry, employment and other relevant aspects of agricultural engineering. The recommendations and resolutions adopted during these events guide Government agencies and industry bodies. The ISAE provides an excellent platform for interactions, deliberations, exchange of ideas, collaborations, and networking opportunities with experts and stakeholders in the world's fastest-growing economy. It has been playing very important role in ASABE's global partnership to provide engineering and technological solutions toward creating a sustainable with abundant food, water, and energy and a healthy environment. The global water security conference for agriculture and natural resources, organized jointly by ISAE and ASABE at Hyderabad 3-6 Oct 2018 was a big leap in this regard. Very successful organization of 8th Asia -Australasian conference on precision agriculture at PAU Ludhiana October 14-18, 2019 and entering in MOU with four International Agricultural Engineering Societies of Korea, Malaysia, Nigeria and Nepal are some testimonials of ISAE's commitment to “go grass root as well as global to make best use of local resources” approach. This will help strengthening national's call of Atmanirbhar Bharat.

RMSI, Jhansi

The Range Management Society of India (RMSI) is one of the earliest and reputed agricultural societies in India. At present, the society has over 400 life members. The RMSI was founded in 1978 to promote client-oriented ecologically sustainable range and forage husbandry with economic productivity and to support excellence in scientific research in agriculture with focus on grassland and fodder resources, agroforestry, plant-animal inter-relationships, environment, dairy industry and allied sciences. One of the major objectives of the Society is to provide a national and global platform to the scientists, development workers, practitioners, planners and policy makers,

industrialists, financial managers and donors related to grassland and fodder resources development for exchange of ideas for the benefit of humanity. Moreover, to disseminate the scientific knowledge on forage and rangeland production, improvement and management, RMSI publishes biennial journal Range Management and Agroforestry which has wide coverage. This is an 'A' category journal of NAAS/ICAR with NAAS rating more than '6'. This journal is a Thomson ISI web of science impact factor journal. The RMSI honors its members as Fellow for their contribution in the field of forage production, grassland management and agroforestry. RMSI also started Life Time Achievement, RMSI Gold Medals and RMSI Young Scientist Awards. Financial support for attending seminars abroad is also being considered to a limited scale to help its members getting international exposure. The RMSI has organized several workshops, seminars, symposia and conferences in the past, a few worth mentioning are 3rd International Rangeland Congress in 1988, International Conference on Agroforestry for the Asia-Pacific region in 1994 and 23rd International Grassland Congress (IGC) in 2015 at New Delhi.

Tentative Lecture Topics

1. Entrepreneurship Opportunities in Feed and Fodder Sector
2. Artificial Intelligence in Production and Processing in Agriculture
3. Hydroponics and Aeroponics - A new Vista in Agri-preneurship
4. Entrepreneurship Potential of Timber based Forestry / Agroforestry
5. Entrepreneurship Potential of Non-Timber based Forestry / Agroforestry
6. Utilisation of Food Industry By-Products for Entrepreneurship Development
7. Prospects of Entrepreneurship from Urban Wastes
8. Green Technologies in Food Processing
9. Innovative Extrusion Process to Produce Designer Food and Feed
10. Innovation in Marketing Strategies for Agri-products
11. Seed Processing Opportunities for Field and Plantation Crops
12. DPR Preparation, Economics and Management of an Agro-Processing Plant

Organizing Team

Dr. Amaresh Chandra	Director, ICAR-IGFRI, Jhansi and President, RMSI, Jhansi
Dr. Prabha Kant Pathak	PS & Head, FMPHT Division and PI, ABIC
Dr. Dana Ram Palsaniya	Principal Scientist, Agronomy
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