Organizing Committee

Chief Patron: **Dr. M. S. Chauhan**
Director, ICAR-NDRI, Karnal

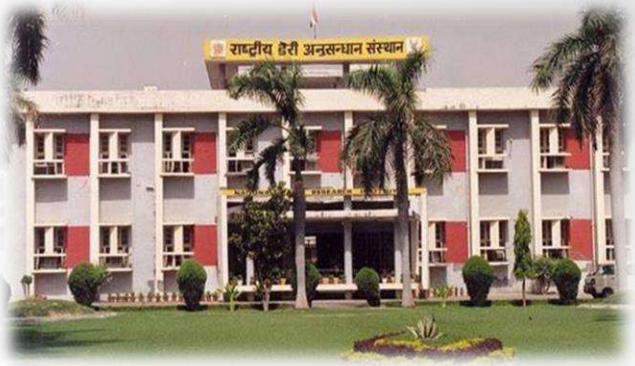
***Patron*:** **Dr. Dheer Singh**
Joint Director (Research)
ICAR-NDRI, Karnal

Co-Patron **Dr. Anurag Saxena**
In-charge, Forage production
ICAR-NDRI, Karnal

Chairman: **Dr. Rakesh Kumar**
In-charge, Agronomy
ICAR-NDRI, Karnal

Organizing Secretary:
Dr. Rajesh Kumar Meena
Scientist
ICAR-NDRI, Karnal

Co-Organizing Secretary:
Dr. Hardev Ram
Scientist
ICAR-NDRI, Karnal

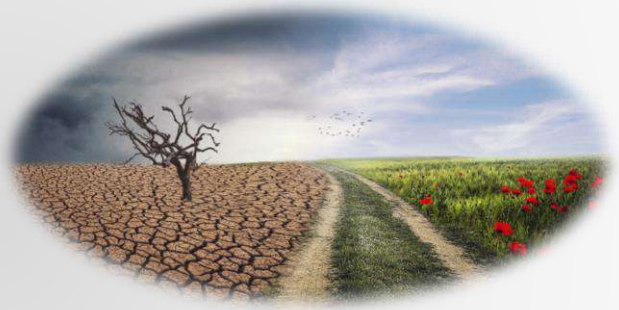


Important dates to be remembered

Online registration begins on:
06/08/2022
Online registration closes on:
17/08/2022
Notification to the shortlisted participants:
20/08/2022

Registration link:

https://forms.gle/zZBGmp4Gk5PBWyvT8



Address for correspondence:

Dr. Rajesh Kumar Meena
Scientist & Organizing Secretary
Agronomy Section
ICAR- National Dairy Research Institute,
Karnal-132001, Haryana
Phone:8010999713/8901365282
Email:rajeshkumar2793@gmail.com;
agronomyndri@gmail.com
Website:http://ndri.res.in/

National Workshop
On
Climate-Smart Technologies for Quality Forage Production and Conservation

27 Sept-03 Oct, 2022

Sponsored by:
Science and Engineering Research Board (SERB)
Department of Science and Technology
Government of India
(Under the Accelerate Vigyan Scheme)

Organizer and venue

Agronomy Section
ICAR- National Dairy Research Institute
Karnal- 132001, Haryana
www.ndri.res.in

India is an agrarian-based economy, and the livestock sector contributes a major portion of the Agriculture GDP. However, this sector suffers a net deficiency of 35.6% green fodder and 11% dry crop residues. On another side, the global demand for livestock products is expected to double by 2050. Furthermore, weather data sets and scientific studies indicate that the climate has changed significantly in recent years. Estimates indicate an increase in global mean annual temperatures of 1ºC by 2025 and 3ºC by 2100. The changes in climate cause several biotic/abiotic stresses on forage crops that adversely affect the quality and productivity of forage production, particularly due to temperature rise, increased CO_2 concentration, and weather variability. These parameters harm water-soluble carbohydrates and nitrogen concentrations. Climate-smart agriculture is an integrated approach to managing the Agri-Resources that address the interlinked challenges of accelerating climate change. It is suggested that diversified crop production systems, including perennials grass, legumes, and trees with climate-smart resource conservation technologies, forage conservation technologies, and policy initiatives would provide increased resilience under prevailing climate change scenarios.

Tentative topics of the workshop

1. General overview of Climate-smart agriculture
2. Feed and Forage resources in India for livestock
3. Role of Agro-practices in quality fodder production under changing climate scenarios
4. Hands-on exposure to fodder crops in fodder cafeteria
5. Climate change and its effect on fodder production
6. Production technology of summer and *Kharif* fodder crops
7. Production technology of Rabi fodder crops and study of fodder cropping system
8. Importance of perennials (grasses, shrubs, and trees) for year-round fodder availability
9. Forage quality analysis
10. Modern tools and equipment used in forage production
11. Antiquality parameters in forages and their management
12. Resource conservation technologies (RCTs) application in forage production

Who Can Participate?

Essential criteria

Postgraduate and Ph.D. students enrolled in any University/State Agricultural University/Deemed University/ Research Institute. A total of 25 participants will be shortlisted for attending this workshop as per the SERB guidelines.

Desirable criteria

Postgraduate and Ph.D. students who already prepared/ preparing their research proposal or planning to do their thesis research on the climate change domain and/or forage production and conservation domain may apply for this workshop.

Submission of application Interested eligible candidates can register through google form link,

https://forms.gle/zZBGmp4Gk5PBWyvT8

by uploading application form duly signed by the Recommending Authority/Head of the Department on or before 17th August 2022. Only selected candidates will be informed by email/phone, therefore the candidates must provide active E-mail IDs and phone while doing the online registration. The selected candidates will have to acknowledge and accept the offer for participating in the workshop through return email or phone, failing which the waitlisted candidates may be called for the workshop.

Registration Fees: Rs. 500/- (Rupees Five Hundred) only. Shortlisted participants will be asked to submit non-refundable registration fees of Rs. 500/- (Rupees Five Hundred) only to confirm their participation. Bank information will be sent to the shortlisted candidate separately via email.

How to reach NDRI, Karnal?

Karnal is well connected with major cities of India by road and rail. The distance from New Delhi to Karnal is around 130 Km, which can be covered by road/rail in about 2.5 hr. Frequent train services are available from New Delhi/Delhi railway stations. State-run buses ply round the clock from the Inter-State Bus Terminus (at Kashmere Gate), New Delhi. ICAR-NDRI is located very near to the Karnal bus stand and railway station. Auto-rickshaw services are available from both the bus stand and railway station to the ICAR-NDRI.

Boarding and Lodging

The participants will be reimbursed to and fro travel fares by shortest rail (AC III-tier)/ bus route as per GOI norms on the production of valid travel documents. Outstation participants will be provided free boarding and lodging at the institute's guest house/hostel. Participants are requested not to bring their family members due to the restricted availability of accommodation and COVID-19 restrictions.

APPLICATION FORM FOR PARTICIPATION IN KARYASHALA

DST-SERB sponsored high-end workshop

on

"Climate-smart technologies for quality forage production and conservation"

ICAR- National Dairy Research Institute, Karnal-132001 (Haryana)

All the information necessary to fill out the application

1	Full Name (in block letters):	
2	Email Id (active)	
3	Date of Birth:	
4	Sex: Male/Female:	
5	Mobile Number	
6	Domicile State	
7	Correspondence Address	
8	Highest degree pursuing with specialization:	
9	Present Institute/University name	
10	Number of training/workshop attended during the previous years under ICAR/other organizations:	
11	How this training will help in your study or research programme.	

Academic Record

Degree passed	Discipline	Year	Name of the University/college/institution
Bachelor's degree			
Master's degree			
Doctoral degree			
Other certificates, diploma, degree, if any			

Date: Signature of the applicant

Recommendations of forwarding Institute:

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Signature of the Head of Department with Seal

1. Last date for receipt of application: 17th August, 2022
2. Confirmation of participation: 20th August, 2022
3. Workshop Dates: 27th September-03rd October, 2022.

Note: The candidate can download the application form and fill it out with the duly signed by the recommended authority/Head of the Department before uploading it on the google form/email on or before August 17th, 2022.