Application form for participation in Winter School on
"FEEDING STRATEGIES IN RELATION TO CLIMATE RESILIENT FORAGE AND LIVESTOCK PRODUCTION"
during September 05-25, 2017

1. Full name (in block letter).....
2. Sex: Male/Female 3. Marital status: Married/Unmarried 4. DOB: ----------
5. Designation..... 6. Basic Pay: ----------
7. Present employer and address.....
.....
8. Address for correspondence ----------
.....
.....
e-mail:---------- Phone:----------
9. Teaching/research/professional experience (mention post held during last 5 year and number of publication):

S. No.	Post held	Duration	Publication

10. Mention whether you have participated in any summer/winter school/short course etc during last 5 years under ICAR/other organization,(if yes, provide details):

S. No.	Training	Duration	Year

11. Postal order/Draft* No..... dated.....Bank name/place..... for amount Rs.50=00 (non-refundable) for registration of application (in favour of Director, IGFRI, Jhansi, UP) * draft will be preferred
12. Academic Record (Graduation onwards)

Exam Passed	Subject	Year	Board/University	Class/Rank

Date..... (Signature of the Applicant)
Place.....

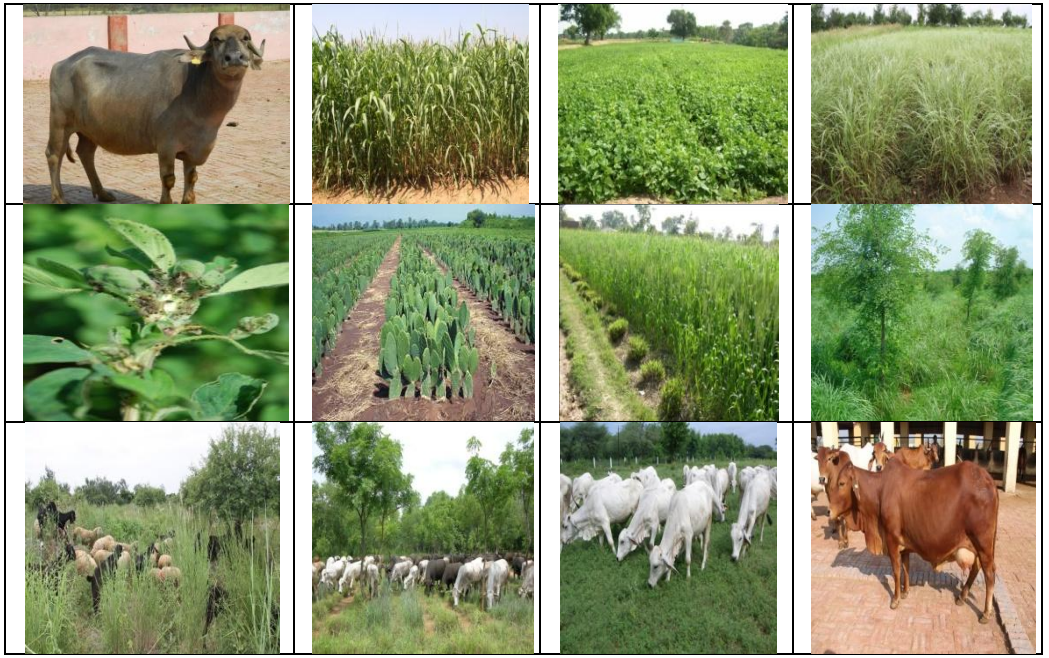
Certificate

13. It is certified that the information furnished is as per office records and is correct.

Signature of recommending/forwarding authority:
Designation
Address with official seal:

Announcement for Winter School

FEEDING STRATEGIES IN RELATION TO CLIMATE RESILIENT FORAGE AND LIVESTOCK PRODUCTION



September 05-25, 2017

Sponsored By
Education Division
Indian Council of Agricultural Research, New Delhi

Organized by
ICAR-Indian Grassland and Fodder Research Institute
Gwalior Road, Jhansi -284 003 (UP)
Fax No.: 0510-2730833, Tel. No.: 0510-2730666
Website: www.igfri.res.in

About the Winter School

India is the highest milk producing country in the world but milk production per animal per year is very low. Deficiency in quantity and quality of forage is one of the major causes for this low animal productivity. Deficiency of green forages is around 35%, which is mainly due to non-availability of land for fodder production/pastures for grazing. The area under fodder production in India is stagnated at 4% of the gross cropped area for the last four decades. The area (varying from 3.7 to 12% of total area) under natural grasslands/ pastures/ common property resources are also on decline. The availability of forage is again going to be affected adversely under expected climate change scenario, which will indirectly impact the production performances of animals. Climate change has the potential to impact the quantity and reliability of forage production, quality of forage, water demand for cultivation of forage crops, as well as large-scale rangeland vegetation patterns. In the coming decades, crops and forage plants will continue to be subjected to warmer temperatures, elevated carbon dioxide, as well as wildly fluctuating water availability due to changing precipitation patterns. Climate change can adversely affect productivity, species composition, and quality, with potential impacts not only on forage production but also on other ecological roles of grasslands. While the most significant direct impact of climate change on livestock production comes from the heat stress. Heat stress results in a significant financial burden to livestock producers through decrease in milk and meat production, reproductive efficiency and animal health. Hence, under the intended winter school, the issues and options related to both direct and indirect impact of climate change on forage and livestock production will be discussed under different themes to sensitize the participants.

Course Content

The following topics are planned to be covered:

- Livestock production in India and impact of climate change
- Forage development in India and climate change: issues and options
- Forage research network in India and its role in forage production
- Pests and diseases of forages under changing climate
- Recent advances in forage seed production
- Climate resilient forage production
- Management of problem soil for forage production
- Water management in forage crops/cropping systems
- Pasture/grazing resources in India: an overview
- Remote sensing in pasture/grazing resources
- Grasses and legumes for pasture development
- Challenges in improvement of range grasses and legumes: biotechnological approach
- Resource conservation technologies in forage crops
- Carbon sequestration in grasslands
- Soil and water conservation in rangelands
- Crop simulation models and their application in climate resilient forage production
- Biodiversity of livestock in India
- Methane emission from Indian livestock and their forage based feeding
- Grazing/pasture based livestock production under changing climate scenario
- Climate change and sustenance of livestock production
- Weather based agro-advisory services for forage and animal production
- Nutrient management in dairy animals and environmental pollution
- Supplementation strategies and stress management in animals

Venue

The winter school will be organized at Plant Animal Relationship Division of Indian Grassland and Fodder Research Institute (IGFRI), Jhansi. The institute is a pioneer in conducting basic, strategic and applied research in the field of grassland, silvi-horti pasture, rangelands, cultivated forage crops, forage based feeding systems, nutrient utilization by small and large ruminants and improved feed and fodder technologies. The institute, locally known as "Grassland" is situated near Pahuj Dam on Jhansi-Gwalior Highway, 10 km from Jhansi Railway Station and 12 km from Jhansi Bus stand.

About the City

Jhansi is located at an elevation of 275 m above the mean sea level. The city is famous as per patriotic city of Maharani Laxmi Bai, Rashtra kavi Maithili Saran Gupt, Hockey wizard Major Dhyanchand and Hindi writer Dr Vrindavan Lal verma. There are many places of interest in Jhansi like Jhansi Fort, Rani Mahal, UP Government Museum etc. The other tourist places of interest nearby Jhansi are Siddh Peeth Datia (20 km), Ram Raja Temple Orchha (30 km) and the temples of Khajuraho (200 km) a world heritage site by UNESCO. It is well connected by train and road to all the major cities of the country. The weather during September is expected to cloudy and sunny with shower (temperature ranging from 24^0C to 32^0C).

Eligibility

The Winter School is open for the participants from ICAR Institute/State AUs/VASUs/CAUs/Agricultural faculty of AMU, BHU, Vishwa Bharti and Nagaland University/KVKs in the cadre of Assistant Professor/Scientist or equivalent and above with minimum qualification of Masters' degree from any recognized university in the relevant disciplines of Agriculture/Veterinary Science/Animal Science and allied disciplines. A maximum of 25 participants will be selected.

Travel, Boarding and Lodging

The participants will be paid travel (to and fro) fare, as per their entitlement by train (restricted to maximum of AC-II tier) or by bus on production of tickets by the shortest route. No DA will be provided by the organizers. The participants will be provided free boarding and lodging facilities in the Institute Scientist Hostel/Guest House.

How to Apply

As per the mandate by ICAR, the candidates **must** apply online at: http://iasri.res.in/cbp/ or click on Capacity Building Program link at http://icar.org.in. Login using user id and password. To create user id, use "create new account" link. After login, click on "participate in training'' link and fill the proforma. Take a printout. Get it signed by sponsoring/forwarding authority. Upload signed copy at CBP home page. Also send signed copy, along with the postal order/demand draft of Rs. 50/- in favour of 'Director IGFRI', payable at Jhansi (UP) through proper channel to the course Director of the winter school by post. These guidelines are available at: http://www.iasri.res.in/cbp/HomePage.aspx

Important Dates

Last date for receipt of application : 05-08-2017
Notification of selection : 10-08-2017
Commencement of the course : 05-09-2017

All correspondence may be addressed to:

1. **Course Director**

Dr. S.K. Mahanta
Principal Scientist (Plant Animal Relationship Division)
Indian Grassland and Fodder Research Institute, Gwalior Road, Jhansi-284003 (UP)
Mobile No.: 9451265901 e-mail: mahantask@rediffmail.com

2. **Course Coordinators**

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3. **Course Co-coordinators**

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Detailed information is also available at: http://www.igfri.res.in