Workshop

on

Climate Resilient Livestock Management Systems

November 20, 2015

Organized by
ICAR-National Dairy Research Institute (NDRI), Karnal,
National Bank for Agriculture and Rural Development (NABARD)
&
National Innovations on Climate Resilient Agriculture (NICRA)
at
ICAR-National Dairy Research Institute
(Indian Council of Agricultural Research)
Karnal- 132001 (Haryana) INDIA
www.ndri.res.in
Dear Friends,

It gives us great pleasure to extend a very warm welcome and invitation to participate in the Workshop on “Climate Resilient Livestock Management Systems” being jointly organized by ICAR-National Dairy Research Institute (NDRI) Karnal, National Bank for Agriculture and Rural Development (NABARD) and National Innovations on Climate Resilient Agriculture (NICRA) at ICAR-NDRI, Karnal on November 20, 2015.

The workshop will provide a platform for scholarly exchange of information on various aspects of climate resilient agriculture to identify areas of focus for future research and also to develop related research programmes. In addition, the workshop will provide a window for strengthening co-operation between scientists, progressive farmers and related state government departments namely animal husbandry, agriculture, horticulture and forestry.

Your active participation would enrich the scientific deliberations. We shall make all efforts to provide an attractive scientific and social environment to make your stay comfortable and memorable in the city of Karnal.

Looking forward to meet you at ICAR-NDRI, Karnal.

With regards,

Sohan Vir Singh  B. K. Tripathy  A.K. Srivastava
Organizing Secretary  Joint-Organizing Secretary  Chairman

About Institute

ICAR-National Dairy Research Institute (Deemed University) is the premier organization providing research and human resource development support for dairy development programmes of the Nation. Over the years it has emerged as one of the front ranking research organizations on the globe. The institution has developed considerable expertise over the last five decades in different areas of dairy production, processing, management and human resource development. Being the National Institute, it conducts basic and applied research with the overall objective to enhance animal productivity and also to develop cost effective technologies for the benefit of the millions of farmers, industries and consumers. The Institute also undertakes extension programmes for transferring the know-how from the laboratory to the farmers’ fields. The city of Karnal is situated midway on Grand Trunk Road (NH1) connecting Delhi and Chandigarh, about 125Km from Delhi. Weather in Karnal during November would be moderate and the ambient temperature during this period would be around 25˚C.

Climate Resilient Livestock

Climate change and its impact on agricultural production system has become the most important area of concern for India to ensure food and nutritional security for growing population. The livestock
industry is likely to be impacted greatly by the effects of climate change. In dairy cows, heat stress reduces the amount of milk produced, milk fat and protein content and may compromise reproductive efficiency of farm animals. Genetic variability for heat tolerance exist more in indigenous breeds which are better adapted than exotic/crossbred breeds, characterized by metabolic heat production and ability to lose heat. This variability within and between breeds need to be exploited. Heat shock protein 70 (Hsp70) are ubiquitously expressed proteins which protect animals against extreme hot and cold shock. Finding polymorphism at gene level of Hsp70 and their correlation with the observed heat stress resistance are useful tools for locating sturdy animals. Government of India has accorded high priority on research and development to cope with climate change in agriculture sector. The Prime Minister’s National Action Plan on Climate Change has also identified Agriculture as one of the eight national missions. With this background, the ICAR has launched a major Project entitled, “National Initiative on Climate Resilient Agriculture” (NICRA) during 2010-11 for the XI Plan with the objectives to enhance the resilience of Indian agriculture covering crops, livestock and fisheries to climatic variability and climate change through development and application of improved production and risk management technologies. Further, animal health may also be impacted by climate change by emergence and re-emergence of many infectious diseases especially vector-borne diseases critically dependent on environmental and climatic conditions. Therefore, there is an urgent need to think about the implementation of available resource use efficiency to meet the challenges being imposed by ongoing climate change.

**Accommodation**
The limited accommodation is available at Guest House/Scientist Home of the Institute. However, Jewels, Noor Mahal and many other hotels are available at Karnal. Participants desiring accommodation in Jewels/Noor Mahal/Other hotels may indicate so for booking.

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