Application Form For Participation in Model Training Course on "Farmer Smart Technologies for Improvement of Productive & Reproductive Performance of Livestock under Climate Change Scenario"

(06 - 13 December' 2018)

1. Name (in block letters) :

2. Designation:

3. Present employer and address:

4. Correspondence Address:

5. Mobile

6. E-mail address:

6. Date of birth:

7. Gender:

8. Educational Qualification

Degree	Discipline	Year	Class	University

9. Work experience (years):.

10. Number of Summer/Winter/Short Courses attended in last 5 years:

Date & Place:

Signature of Applicant

Recommendations of the Forwarding Department/ Authority

Signature with seal

Designation

Address

PATRON Dr. Raghavendra Bhatta Director, ICAR - NIANP, Bengaluru-560030

Please send nominations to: COURSE DIRECTOR

Dr. Kajal Sankar Roy, Principal Scientist, Stress Physiology Lab, BE & ES Division, NIANP, Adugodi, Bengaluru-560030, Karnataka; Phone: 080-25711304, Ext.236; Fax: 080- 2571 1420; Cell: 9448974024 E-mail: ksroy123star@gmail.com

> For further information please contact: COURSE COORDINATORS

Dr. D T Pal, Principal Scientist, Micronutrient Lab, AND, NIANP, Adugodi, Bengaluru-560030, Karnataka; Cell: 9480613205; E-mail:dtpal@yahoo.co.in

&

Dr. J Ghosh, Principal Scientist, MB Lab, APD, NIANP, Adugodi, Bengaluru-560030, Karnataka; Cell: 8618693868; E-mail:jghosh.office@gmail.com

IMPORTANT DATES:

Last date for receipt of applications: 10th November 2018 Intimation to the selected candidates: 14th November 2018 Confirmation of participation by the selected candidates should reach to us : 17th November 2018



Model Training course

on

Farmer Smart Technologies for Improvement of Productive & Reproductive Performance of Livestock under Climate Change Scenario

(06 – 13 December, 2018)



Sponsored by

Directorate of Extension, Department of Agriculture, Cooperation & Farmers Welfare, Ministry of Agriculture & Farmers Welfare, Government of India, New Delhi

> Course Director Dr. Kajal Sankar Roy, Principal Scientist

> > Course Coordinators Dr. D T Pal, Principal Scientist Dr. J Ghosh, Principal Scientist



ICAR- National Institute of Animal Nutrition and Physiology Adugodi, Bengaluru - 560 030

BACKGROUND

The National Institute of Animal Nutrition and Physiology (ICAR-NIANP) works with a vision of productivity enhancement for profitable and sustainable livestock production; along with the mission to improve production and reproductive efficiency in livestock through basic physiological and nutritional approaches. The institute has developed several technologies that has enhanced the productive and reproductive performance of livestock at the farm-gate level. In addition to conventional methods, novel approaches viz., genomic, proteomic and biotechnological methods to enhance nutrient bioavailability to augment reproductive and productive efficiency, facilitate adaptation strategies to climate change led stress in farm animals. The institute has a well-trained scientific manpower in various aspects of animal nutrition, physiology, reproduction and management. The institute has state of art laboratories for all advanced analytical techniques to conduct specialized training programmes for human resource development in animal nutrition and physiology for different clientele.

Climate change has complex impact on domestic animal production system affecting feed supply, challenging thermoregulatory mechanism resulting thermal stress, emerging new diseases due to alteration of epidemiology. The environmental stressors (viz. temperature, humidity, solar radiation, wind velocity etc.) are likely to increase in their intensity due to the effects of climate change and can have significant impact on animal growth, milk production, expression of oestrus, oocyte maturation, fertilization and embryo development. There is an urgent need to develop efficient and sustainable livestock production under current context of global climate change and also to evolve a coherent strategy for developing eco-friendly livestock production system. The recent development in molecular biology and biotechnology has resulted in involvement and application of smart and suitable tools to meet the challenges of food scarcity, sustainability of agriculture and livestock improvement. This training shall equate field level officers to disseminate focused knowledge to the stake holders.

COURSE CONTENTS

- i. Impact of climate change on livestock and poultry
- ii. Emission of green house gases and global warming: Livestock context
- iii. Strategies to ameliorate methane emission from livestock
- iv. Abiotic and biotic stress: adaptation and amelioration strategy
- v. Oestrus synchronization protocols and timed AI for manipulation of reproduction in animals for enhancing fertility
- vi. Nutritional strategies for environmental protection and sustainability in livestock production
- vii. Non conventional feed resources
- viii. Ration balancing and precision feeding
- ix. Impact of stress on female and male reproduction
- x. Measurement of greenhouse gases and life cycle assessment
- xi. Climate friendly feeding systems
- xii. Fodders, silage and hydroponics cultivation for feeding animals under abiotic stress etc.
- xiii. Policy issues related to livestock sector
- xiv. Livestock financing and Government Subsidy Schemes
- xv. Insurances and schemes to protect animal farming under natural disaster

DURATION

The course duration is for eight days. From 6^{th} to 13^{th} December'2018.

ELIGIBILITY

Participation for the MODEL TRAININING COURSE is limited to the officers of State Government Developmental Departments such as Animal Husbandry (Veterinary Officers), Extension officers who are closely involved in livestock development and extension activities. However the candidates from ICAR, SAUs, KVKs etc. can also participate with their organizational sponsorship as per the guidelines of MTC. The total number of participants will be restricted to 20. There is no course fee charged to the participants.

NOMINATION

The Directors of the State Government Development Departments may nominate suitable candidates. The nomination form is available in the brochure. The last date of receipt of nomination is 10.11.2018. The selected candidate will be intimated on or before 14.11.2018 either by E-mail/Mobile, who in turn has to confirm their participation by 17.11.2018. Participants may start their journey only after confirmation from NIANP.

TRAVEL ALLOWANCE

The participants of State Development Departments and UTs will be paid TA/DA for to and fro journey by rail/bus/public transport by the shortest route on actual basis but restricted to A.C. II tier normal train fare only (on producing documentary evidence) as per Govt. of India norms. But as per the guidelines, for trainees of other organizations viz. ICAR, SAUs, KVKs etc. desired to participate in this training, their TA/DA may be borne by their respective organization/institute.

BOARDING AND LOGGING

Free boarding and lodging will be provided to all the participants in the Institute guest house on sharing basis. Participants are advised not to bring their families, as the accommodation for them will not be entertained.

HOW TO REACH

The NIANP campus is about 8 Km from city railway / bus Station, 15 km from Yeswantpur railway station. Prepaid taxi/auto can be availed at railway/bus station to reach NIANP, Adugodi, Bengaluru (opposite to BOSCH Company, Hosur Main Road).

WEATHER

Bengaluru will be quite cool and comfortable in the month of December (15 to 25° C). Woollen sweater/winter clothing is advised.