# DIRECTORATE OF RESEARCH
## ANAND AGRICULTURAL UNIVERSITY
### UNIVERSITY BHAVAN, ANAND-388 110(Gujarat)

***Dr. K. B. Kathiria***
*Director of Research & Dean PG Studies*

☎ / **Fax :** 02692-263600(O)
**e-mail** : dr@aau.in

==========

**No.AAU/DR/RES/T-2/** 6471 **/2015** **Date:** 8 **-10-2015**

To,

All the Unit / Sub Unit Heads
AAU, Anand

Please find attached herewith a brochure received from Dr. D. Rama Rao, Director, National Academy of Agricultural Research Management, Rajendranagar, Hyderabad, regarding training programme on **"Quantitative Techniques for Analysis of Breeding Experiments"** which will be held from **02-11-2015 to 07-11-2015** at NAARM, Hyderabad. This is for your information and further necessary action.

Encl : As above

**Director of Research & Dean**
**Faculty of P. G. Studies**

राष्ट्रीय कृषि अनुसंधान प्रबंध अकादमी
राजेन्द्रनगर, हैदराबाद - 500 030, भारत
NATIONAL ACADEMY OF AGRICULTURAL RESEARCH MANAGEMENT
Rajendranagar, Hyderabad-500 030, INDIA
Phones : (040) 2458 1322; Fax : (040) 2401 5912; http://www.naarm.ernet.in

Dr D. Rama Rao
Director

F.No. QT/ICM/ADP&SRC/2015
September 28, 2015

**Sub: Training programme on "Quantitative Techniques for Analysis of Breeding Experiments" during November 2-7, 2015 - reg.**

Dear Sir/Madam,

A 6-days Training Programme on **"Quantitative Techniques for Analysis of Breeding Experiments"** is being conducted at ICAR-NAARM, Hyderabad during **November 2-7, 2015** for Scientists, Faculty Members and Officers working in National Agricultural Research System who are involved in breeding programmes. The objective is to introduce modern quantitative techniques for analysis of breeding experiments and to give hands-on experience in analyzing breeding experiments. The training programme flyer with all details is attached. We request you to nominate and sponsor suitable candidates. The last date for receiving the nominations is **October 17, 2015**. A copy of the flyer has also been sent by email to you.

With best regards.

Yours faithfully

(D. Rama Rao)

*Encl:* As above.

Office of the Director of Research A.A.U. Anand
07 OCT 2015
Inward No. 8518

PR 4/10/15

| | | |
|---|---|---|
| | 4. | The Vice Chancellor<br>Anand Agricultural University,<br>Anand-388110<br>Gujarat |

Office of the Vice Chancellor
Anand Agricultural University
ANAND
05 OCT 2015
Inward No. 1305

T-2 5/10 6/10 3/10 07/10 Put on web. 7/10

**ICAR – National Academy of Agricultural Research Management**
Rajendranagar, Hyderabad 500 030

# Nomination Form

1. Name of the Programme and Dates : Training Programme on Quantitative Techniques for Analysis of Breeding Experiments November 2 – 7, 2015

2. Full Name (in block letters) :
First Name Middle Name Last Name

3. Date of birth and age :

4. Sex :

5. Nationality :

6. Designation & Discipline :

7. Present employer & Address :

8. Address for Communication (in block letters) :

Landline: Cell: Fax No.:

Email:

9. Teaching / Research / Professional Experience (including post held) during the last five years (attach additional sheets, if required)

10. Academic Record (Start from Bachelor's Degree)

| Exam | University or Institution | Year | Subjects | Class/Rank | Another information |
|---|---|---|---|---|---|
| | | | | | |

**(Signature of the applicant)**

Date :

Place :

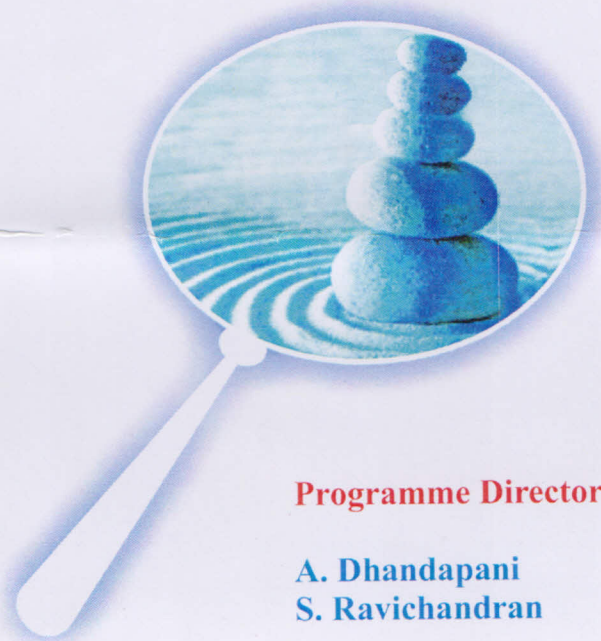
Recommendation of sponsoring authority

**(Signature and Designation of the Nominating Authority)**

naarm

# Training Programme on
# Quantitative Techniques for Analysis of Breeding Experiments

(November 2-7, 2015)



**Programme Directors**

**A. Dhandapani**
**S. Ravichandran**


भाकृअनुप - राष्ट्रीय कृषि अनुसंधान प्रबंध अकादमी
राजेन्द्रनगर, हैदराबाद-500030, तेलंगाण, भारत
**ICAR-National Academy of Agricultural Research Management**
Rajendranagar, Hyderabad-500030, Telangana, India
http://www.naarm.ernet.in

The ICAR-National Academy of Agricultural Research Management (NAARM), Hyderabad announces a **Training Programme on "Quantitative Techniques for Analysis of Breeding Experiments"** from **November 2-7, 2015** at Hyderabad.

## Background

Genetic improvement in crops and animals for desired traits is an important strategy in agricultural research. Conventional as well as modern breeding tools are used to create improved genetic materials and their traits are compared with existing using well-planned experiments. The statistical analysis of data emanating from breeding trails are important not only in assessing the performance of new genetic materials but also taking important decisions such as releasing it for the end-users. Use of computer software has become necessary for analyzing such data, particularly when the researchers wanted to extract maximum information from the collected data. This training programme aims at training breeders (from both plant as well as animal sciences) in various quantitative techniques for analysis of breeding data.

## Objectives

- To introduce modern quantitative techniques for analysis of breeding experiments
- To give hands-on experience in analyzing breeding Experiments

## Content

The topics covered would be: Design of Experiments; Analysis of experiments for varietal evaluation; Design and Analysis of experiments for Plant and Animal Breeding; Estimation of genetic parameters; G x E Interactions, Stability and Selection; Analysis of QTL; Multivariate Techniques

## Methodology

The methodology would consist of lectures, hands-on-exercises on software and discussions. The emphasis would be to understand and interpret the results produced by various computer programmes.

## Expected Learning Outputs

The programme will be useful to researchers to know and update their knowledge on data analysis using modern quantitative genetical statistics techniques.

## Programme Fee

**Non-ICAR participants:** ₹ **10,000/-** which includes training kit/material, board and lodging charges of NAARM Guesthouses/Hostels excluding TA/DA.For the participants from ICAR, there is no registration fee, however they have to pay board and lodging charges at an approximate cost of ₹ 600/- per day.

The programme fee may be paid through a demand draft drawn in favour of "ICAR Unit-NAARM", payable at Hyderabad; sent along with the Nomination Form. On the reverse side of the Demand Draft, please include the details like programme title; name of the participant and office address. The cash payment can also be made during registration. Payment through NEFT/RTGS also accepted. For details, visit http://www.naarm.org.in/training

## Programme Duration

November 2-7, 2015 (Six days). Participants are expected to arrive by the evening of the November 1, 2015, and can leave after 1700 hrs on November 7, 2015.

**Last Date for receiving nominations**
October 17, 2015

## Who Should Attend?

Scientists, faculty members and officers in ICAR institutes, Agricultural Universities and other organizations of NARS involved in Breeding Programmes.

## Board and Lodging

All participants are expected to stay in the well-furnished Halls of Residence or Scientists' Home of the Academy on twin-sharing basis. Participants are requested not to bring any family member with them.

## Travel

ICAR-NAARM is located in Rajendranagar (17°18'49"N latitude and 78°24'42" East longitude) in Hyderabad about 20 km from the Hyderabad Rajiv Gandhi International Airport, Shamshabad; 25 km from the Secunderabad Railway

Station; 16 km from the Hyderabad Railway Station; 16 km from the Kacheguda Railway Station and 12 km from the Imlibun/Mahatma Gandhi Bus Station (MGBS). From any of these alighting points, participants can take an autorickshaw/taxi/car. Hyderabad has a salubrious climate.

TA and DA has to be met by the participants/sponsoring organizations.

## How to Apply?

Applicants are advised to fill nomination form online after registration on Training Management Information System (http://www.naarm.org.in/training). Upload the filled, signed and scanned nomination form onto Training Management Information System or mail it to Academic Cell, NAARM (academiccell@naarm.ernet.in).

## For further information, please contact:

OIC, Academic Cell,
ICAR-National Academy of Agricultural Research Management,
Indian Council of Agricultural Research
Rajendranagar, Hyderabad-500030 Telangana State, India
Email: academiccell@naarm.ernet.in; training.naarm@icar.gov.in
Telephone: +91-40-24581319/310
Fax: +91-40-24581484/24015912

## Programme Directors

**Dr A. Dhandapani**
Principal Scientist
NAARM, Rajendranagar, Hyderabad-500030
Phone no.: +91-40-24581339
E-Mail: a.dhandapani@icar.gov.in, dhandapani@naarm.ernet.in

**Dr S. Ravichandran**
Principal Scientist
NAARM, Rajendranagar, Hyderabad-500030
Phone no.: +91-40-24581338
Email: s.ravichandran@icar.gov.in; ravichandran@naarm.ernet.in