



## RAC, Management Committee and IRC

### Research Advisory Committee (RAC)

The Research Advisory Committee (RAC) of the Institute constituted for a period of three years w.e.f. June 12, 2013 consists of following members:

1. **Dr. Bimal K Roy** Chairman  
Director, Indian Statistical Institute,  
203 Barrackpore Trunk Road,  
Kolkata - 700 108 (West Bengal)
2. **Dr. Rajeeva Karandikar** Member  
Director, Chennai Mathematical Institute,  
H 1, SIPCOT IT Park, Siruseri,  
Kelambakkam - 603 103 (Tamil Nadu)
3. **Dr. Saumyadipta Pyne** Member  
PC Mahalanobis Chair Professor,  
CR Rao Advanced Institute of Mathematics,  
Statistics and Computer Science,  
University of Hyderabad Campus,  
Prof. CR Rao Road, Hyderabad - 500 046
4. **Dr. Bal BPS Goel** Member  
Former Director, IASRI,  
B-77, Naraina Vihar,  
New Delhi - 110 028
5. **Dr. SD Sharma** Member  
Former Director, IASRI,  
Former Vice-Chancellor,  
Dev Sanskriti Vishwavidyalaya, Haridwar  
D-15/02 Second Floor  
Ardee City  
Gurgaon - 122 011, Haryana
6. **Shri GC Manna** Member  
Deputy Director General (ESD),  
Central Statistical Office,  
MOS & PI, Sardar Patel Bhawan,  
Sansad Marg, New Delhi - 110 001
7. **Dr. UC Sud** Member  
Director, IASRI, Library Avenue,  
New Delhi - 110 012
7. **Assistant Director General (Edn.)** Member  
Indian Council of Agricultural Research,  
Krishi Anusandhan Bhavan - II, Pusa,  
New Delhi – 110 012
9. **Dr. Seema Jaggi** Member-Secretary  
Principal Scientist and  
Incharge, PME Cell, IASRI,  
Library Avenue,  
New Delhi - 110 012

The 16<sup>th</sup> meeting of the RAC of IASRI was organized on January 21, 2015 under the Chairmanship of Professor Bimal K. Roy. The meeting was attended by Dr. SD Sharma, Dr. Bal BPS Goel, Dr. G Venkateshwarlu, ADG (Education Division), ICAR, New Delhi; Dr. UC Sud, Director, IASRI, as members of RAC of the Institute and Dr. Seema Jaggi, Principal Scientist and Incharge, PME Cell, IASRI as Member Secretary RAC. Dr. VK Gupta, National Professor, ICAR, Dr. Prajneshu, Emeritus Scientist and Former Head, Statistical Genetics, IASRI, Dr. Anil Rai, Head, Centre for Agricultural Bioinformatics, Dr. KN Singh, Head, Division of Forecasting and Agricultural Systems Modelling, Dr. AK Chaubey, Head, Division of Computer Applications, Dr. Lal Mohan Bhar, Head, Division of Statistical Genetics, Dr. Rajender Parsad, Former Head, Division of Design of Experiments and Shri SD Wahi, Principal Scientist also attended the meeting as special invitees.

Dr. UC Sud welcomed the Chairman and other members and made the introductory remarks and briefed about the major achievements of the Institute including the establishment of the first



supercomputing hub for Indian Agriculture, ASHOKA (Advanced Supercomputing Hub for OMICS Knowledge in Agriculture) in the institute and its strengthening by adding modules on computational aspects. Further, development and implementation of ICAR-ERP system consisting of a robust and flexible Management Information System (MIS) including Financial Management System (FMS) in ICAR and creation of healthy statistical computing environment in the National Agricultural Research System with the efforts of IASRI was informed. Dr. Sud also informed the house about the newly created Statistical Genetics division in the institute and that Dr. Lal Mohan Bhar has recently joined as Head of this division. He also presented the broad research programmes, significant research achievements, future research programmes and other related activities of the Institute during 2014. He presented the 71 research projects in which scientists of the Institute were involved during the year out of which 25 were externally funded, 1 consultancy project and 1 National Professor Scheme of ICAR. He apprised the members regarding 23 completed research projects and 16 new projects undertaken during the period. Besides, one project under consultancy mode was also undertaken. The institute has published its Annual Report 2013-14, Agriculture Data Book, Quarterly News Letters and Sankhyiki Vimarsh. 79 research papers were published in national/ international refereed journals. A number of popular articles, reference manuals, book chapters,

leaflets/ brochures and e-manuals/e-resources were also published. The scientists of the institute have participated in different conferences/ workshops and a total of 39 papers have been presented in these conferences. The Institute has received the copyright from the Registrar, office of Copyrights, New Delhi for Statistical Package for Factorial Experiments (SPFE 1.0), Statistical Package for Augmented Designs (SPAD), Statistical Package for Animal Breeding (SPAB2.0), Statistical Package for Agricultural Research (SPAR 2.0) and Software for Survey Data Analysis (SSDA 1.0) developed by the institute. Dr. Sud highlighted the awards and recognitions won by the scientists of the Institute. One scientist received the ICAR's Bharat Ratna Dr. C Subramaniam Award for Outstanding Teachers-2013 for excellent teaching in the field of Social Sciences during the 86<sup>th</sup> ICAR Foundation Day, one scientist awarded ICAR-National Fellow, one scientist received the IARI Merit Medal for his Ph.D. research work during 52<sup>nd</sup> Convocation of PG School IARI, one scientist received Team Award from Indian Society of Agricultural Engineering for significant contribution in "Assessment of Harvest and Post-Harvest Losses of Major Crops and Livestock Produce in India". Some scientists have received best paper awards and are nominated on Editorial Boards of national and international journals. One scientist has served as an FAO consultant to Bangladesh on harmonization and dissemination of Unified

Agricultural Production Statistics in Bangladesh. The thrust areas for XII plan were also presented under the broad six programmes of the institute and the futuristic approach of the institute as per the Vision 2050 document was also presented. Thereafter, Chairman and Members gave their opening remarks and appreciated the efforts and achievements of the Institute.

Dr. Seema Jaggi, Incharge, Training Administration Cell presented the details of the training and teaching activities of IASRI. It was informed that during the 52<sup>nd</sup> Convocation of Post Graduate School IARI held on 21<sup>st</sup> February 2014, 2 Ph.D. (Agricultural Statistics), 8 M.Sc. (Agricultural Statistics), 5 M.Sc. (Computer Application) and 1 M.Sc. (Bioinformatics) students have received their respective degrees. Further, she informed that one Ph.D. (Agricultural Statistics) student received the IARI Merit Medal for his Ph.D. research work and one M.Sc. (Agricultural Statistics) student received the IARI Best Student award. Two students, One M.Sc. (Agricultural Statistics) and one M.Sc. (Computer Application) received the Nehru Memorial Gold Medal of IASRI. It was also informed that some of the students are getting DST Inspire and UGC Fellowships. A land mark event is that the Ph.D. programme in Bioinformatics has been started from academic session 2014-15. It was also informed that during the year, 664 researchers have been trained through various training programmes. A Senior Certificate Course in Agricultural Statistics and Computing was also conducted.

Dr. VK Gupta, ICAR National Professor apprised the RAC about the research activities of the National Professor Scheme. He informed that the monograph entitled "Weighting and Calibration in Sample Survey Estimation" (VK Gupta, UC Sud and Chandra Bhanu Chauhan) has been revised after a review by a referee and has since been sent for publication. Similarly 20 Chapters and three Appendices have been written on the proposed book entitled "Statistical Analysis of Agricultural Experiments." The manuscript is being reviewed by the referees. After review and revision as per the suggestions received the manuscript would be revised and sent for publication. An article on "Significance of Statistical Sciences in Agricultural Research" (Prem Narain, VK Gupta and Rajender Parsad) was submitted to NAAS. For comparing several test preparations with more than one standard preparation, incomplete block designs have been obtained for multiple asymmetric parallel line assays. Use of integer linear programming has been made for generation of incomplete block

designs with a given concurrence matrix and for a derived concurrence matrix using the parameters of the design ( $v, b, k$ ). The concurrence matrix has nearly balanced concurrences. This has also been extended to generate balanced treatments incomplete block design. Calibration approach has been used in successive sampling for getting the estimate of the mean for the second occasion when the auxiliary information is available and when it is not available. Then two more situations are considered, (i) when the auxiliary information is related with the study variable and (ii) when the auxiliary variable is related with the inverse of the study variable. An article entitled "Predicting soil organic carbon stock in Upper Gangetic Plains of India- A geostatistical model approach" (Vinod K Singh, Meenu Rani, Brahma S Dwivedi, Susheel K Singh, Vinod K Gupta and Rajendra P Mishra) has been submitted for publication. Web resources like Sample Survey Resources Server and Design Resources Server have been further strengthened. These are being widely used by the scientists in NARES that help in improved experimentation, both by way of planning the experiments and analysis of data and drawing more appropriate and valid inferences and converting this information into knowledge.

The members appreciated the efforts made and were satisfied with the co-ordination between ICAR National Professor Research Unit and the Institute. The Chairman and members gave their best wishes for continued outstanding work.

Thereafter all the Heads of the Divisions presented the research achievements of their respective Divisions.

During the presentations, there were academic, healthy and constructive discussions and interactions on the research, teaching and training activities of the Institute. All the members unanimously complimented the Director and Heads of Divisions for an excellent research output, teaching and training activities of the Institute and for doing an excellent work for NARES. They also expressed that the Institute is progressing very well and must continue to play an important role in NARES

After discussions, the following action points emerged:

1. Collaborative research studies may be undertaken with other institutes in India and elsewhere specializing in diverse upcoming fields of study.

2. Efforts should be made to take up projects that will address the estimation of loss due to natural resource depletion and degradation, environmental hazards, climate change etc. The institute must initiate research programmes to study the impact of climate change and environment on agriculture economy, ground water contamination affecting the agriculture productivity and health of farming community.
3. For implementation of the techniques/ methodologies developed, the institute should concentrate its efforts on dissemination of these newly developed techniques/ methodologies to the users.
4. Spatio-temporal models may be developed for predictive and integrative analyses of geo-referenced multi-sectoral data.
5. Methodological and applied research may be conducted to address the challenges of data which has high volume, variety and velocity.
6. The online services and web resources developed may be strengthened. Efforts may be made to develop more such facilities.
7. Attempts should be made to relook into the past methodologies, specifically in the context of crop cutting experiments, so that improvements can be made and techniques developed which are more economical and acceptable.
8. The institute should work on need based and current problems that includes the refined methodology for forecasting in agriculture and intelligent decision making processes.
9. The requirement of "Master's degree in Statistics with Specialization in Agriculture" for recruitment of scientists in the discipline of Statistics and Informatics is not a viable and good option. Council may be approached to remove the "Specialization in Agriculture" requirement.
10. The scientists of the institute may be sent for training in the core areas of Statistics and Informatics to national/ international organizations of repute for enhancing their capabilities and providing an international exposure.
11. The trainees coming to the institute from different institutes as part of their course requirement work for the Institute Projects and contribute significantly. In other institutes, like

ISI, the trainees are given stipend for the work done during their training period. The Council may be requested to waive the fees of trainees.

12. Vacant scientific positions at IASRI should be filled on priority basis and for this the concerned authorities may be approached. Further, for maintaining data centre and providing 24 hours web/IT services, technical manpower is must. Efforts may be made to fill the vacant positions of technical personnel.

### Institute Management Committee (IMC)

The Director of the Institute, who is In-charge of the overall management of the Institute, is assisted in the discharge of his functions by the Institute Management Committee (IMC) constituted by the Council. IMC provides a broad-based platform for decision making process by periodically examining the progress of the Institute activities and by recommending suitable remedial measures for bottlenecks, if any. IMC was reconstituted for a period of three years w.e.f. August 27, 2013 vide office order no. 7(1)/2013-Admn.II dated 17.09.2013 with the following members:

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| <b>1. Dr. UC Sud</b>   | Chairman (Ex-Officio) |
| Director, IASRI,<br>Pusa, New Delhi-110 012  |                       |
| <b>2. Director of Agriculture</b>  | Member                |
| Government of Delhi, ITO, New<br>Delhi-110001  |                       |
| <b>3. Director of Agricultural Insurance Statistics &amp; Crop</b>                                       | Member                |
| Government of Uttar Pradesh,<br>Lucknow, UP  |                       |
| <b>4. Joint Director (Research)</b>  | Member                |
| IARI, Pusa, New Delhi-110 012  |                       |
| <b>5. Dr. (Smt.) Ravinder Kaur</b>   | Member                |
| Director(A), IARI and<br>Project Director,<br>Water Technology Centre,<br>IARI, Pusa, New Delhi -110 012 |                       |
| <b>6. Dr. Suresh Pal</b>   | Member                |
| Head, Division of<br>Agricultural Economics,<br>IARI, Pusa, New Delhi -110 012                           |                       |
| <b>7. Dr. Niranjan Prasad</b>  | Member                |
| Division of Processing and<br>Product Development,<br>IINRG, Ranchi                                      |                       |



- 8. Dr. (Smt.) Rajni Jain** Member  
Principal Scientist, (till 03.07.2014)  
NIAP, Pusa, New Delhi-110 012
- 9. Finance & Accounts Officer** Member  
IARI,  
Pusa, New Delhi-110 012
- 10. Head of Office** Member Secretary  
IASRI,  
(Ex-Officio)  
Pusa, New Delhi-110 012

63<sup>rd</sup> meeting of IMC was organized at IASRI on June 13, 2014. At the outset, Dr. UC Sud, Director, IASRI, New Delhi and the Chairman of the Management Committee welcomed all the distinguished members and special invitees present in the meeting. Dr. Seema Jaggi, Incharge PME Cell made presentation on research and other related activities of the institute. She also presented the achievements of completed as well as ongoing research projects of the institute. Dr. PK Malhotra, Professor (Computer Application) and In-charge, Training Administration Cell made presentation on Teaching and Training Activities of the Institute. Further, Members expressed their concern about the vacant positions of both Scientists and Technical Personnel and suggested that this may be pursued with the ICAR urgently. In this regard, it was brought to the knowledge of members that efforts have been initiated to fill up the vacant posts of Scientists and Technical personnel. Actual expenditure incurred up to March 31, 2014 in respect of Plan/ Non-Plan of the Institute was presented before the committee. Purchase of necessary equipments/items under XII plan EFC in the year 2014-15 was put up before the committee with justification for kind consideration and approval was taken.

### Institute Research Committee (IRC)

The Institute Research Committee (IRC) is an important forum to guide the scientists in the formulation of new research projects and to review the progress of on-going research projects periodically. It also monitors the follow up action on the recommendations of the Quinquennial Review Team (QRT), Research Advisory Committee (RAC) in respect of technical programmes of the Institute. Director, IASRI is the Chairman and In-charge (PME Cell) is the Member Secretary of the IRC. During the entire year, 20 new research projects were approved and progress of 106 on-going research projects was reviewed and 22 research projects were declared complete.

Two meetings (81<sup>st</sup> and 82<sup>nd</sup>) of the IRC were held during September 25-26, 2014 and March 19-20, 2015 respectively.

- In the 81<sup>st</sup> meeting, 11 new research projects (06 Institute funded, 03 in collaboration with other Institutes and 02 outside funded) were approved and progress of 53 on-going research projects (22 Institute funded, 08 in collaboration with other Institutes and 23 outside funded) were discussed and 19 research projects were declared as complete.
- In the 82<sup>nd</sup> meeting, 05 new research projects (01 Institute funded, 01 in collaboration with other Institutes and 03 outside funded) were approved and progress of 45 on-going research projects (24 Institute funded, 06 in collaboration with other Institute and 15 outside funded) was reviewed and 05 research projects were declared as complete.



