

List of Approved Research Projects

DEVELOPMENT AND ANALYSIS OF EXPERIMENTAL DESIGNS FOR AGRICULTURAL SYSTEM RESEARCH

On Going

1. Designs for single factor and multi-factor experiments and their applications in agricultural systems research. (ICAR National Professor Scheme)
VK Gupta
2. Planning, designing and analysis of experiments planned ON STATION under the Project Directorate of Farming Systems Research.
Anil Kumar, Alope Lahiri(till 30.09.2010), OP Khanduri
3. Planning, designing and analysis of ON FARM research experiments planned under Project Directorate of Farming Systems Research.
NK Sharma, PK Batra, OP Khanduri
4. Planning, designing and analysis of data relating to experiments conducted under AICRP on long-term fertilizer experiments.
DK Sehgal, Krishan Lal, SMG Saran (till 30.06.2010), Shashi Dahiya
5. Agricultural field experiments information system.
PK Batra, OP Khanduri, DK Sehgal, Rajender Parsad, Sudeep
6. Generalized row-column designs for agricultural experiments.
Cini Varghese, Seema Jaggi

Completed

7. Planning, designing and analysis of experiments relating to AICRP on STCR (completed on 28.05.2010)
Alope Lahiri, VK Gupta, Rajender Parsad; A Subba Rao, Y Muralidharudu (IISS, Bhopal); Abhishek Rathore (IISS, Bhopal).

New Initiated

8. A study on fertilizer response ratios for various crops and crop sequence (initiated on 01.04.2010).
NK Sharma, PK Batra
9. Analysis of experimental designs with t-family of distributions (initiated on 01.05.2010).
Krishan Lal, Rajender Parsad, VK Gupta, Lalmohan Bhar
10. A study on multiple bio-assays (initiated on 01.05.2010).
Lalmohan Bhar, VK Gupta
11. Response surface methodology incorporating neighbour effects (initiated on 01.09.2010).
Eldho Varghese, Seema Jaggi
12. Development of innovative convenience food as protein supplement (initiated on 01.04.2009 Association of IASRI w.e.f. 24.10.2009).
IASRI, New Delhi **SK Jha**, Shruti Sethi, RK Pal, Abhijit Kar, VR Sagar, Charanjit Kaur, DVK Samuel, Amar Singh
IASRI, New Delhi **Krishan Lal**

13. Weed assessment and management in the crops and cropping system (initiated on 01.04.2009 Association of IASRI w.e.f. 29.12.2010).
IARI, New Delhi **Raj Bir Singh**, TK Das, Jitender Kumar, Pankaj, Livleen Shukla, Sangeeta Paul, Renu Pandey, Mahesh Chand Meena

IASRI, New Delhi **Amrit Kumar Paul**

FORECASTING AND REMOTE SENSING TECHNIQUES AND STATISTICAL APPLICATIONS OF GIS IN AGRICULTURAL SYSTEMS

On Going

14. Development of forecasting module for podfly, *Melanagromyza obtusa* Malloch in late pigeonpea.
IIPR, Kanpur: **SK Singh**
IASRI, New Delhi: **Ranjana Agrawal**, Amrender Kumar

Completed

15. Use of discriminant function and principal component techniques for weather based crop yield forecast (completed on 30.06.2010).
Chandras, Ranjana Agrawal, SS Walia (till 31.12.2009)
16. Stochastic process modeling and forecasting through discrete nonlinear time series approach (Department of Science and Technology, Government of India) (completed on 28.02.2011).
Himadri Ghosh, Prajneshu

New Initiated

17. Weather based forewarning models for Onion Thrips (*Thrips tabaci* Lindeman) (initiated on 01.04.2010).
Amrender Kumar, PS Srinivas (DOGR, Pune), SC Mehta, Ranjana Agrawal
18. Weather based forewarning of mango pests (initiated on 01.04.2010).
Ranjana Agrawal (IASRI, New Delhi); Rakesh Chandra, G Pandey, AK Misra (CISH, Lucknow); BR Salvi, MB Dalvi, AY Munj (RFRS, Vengurle); NI Shah, Hemant Sharma, GB Kalariya (AES, Paria); K Ray, A Samanta, (BCKV, Mohanpur); Rajesh Kumar, SN Ray, Mithelesh Kumar (BAC, Sabour); A Bhagwan, B Mahindar, D Anitha Kumari (FRS. Sangareddy)

DEVELOPMENT OF TECHNIQUES FOR PLANNING AND EXECUTION OF SURVEYS AND ANALYSIS OF DATA INCLUDING ECONOMIC PROBLEMS OF CURRENT INTEREST

On Going

19. Sampling methodology for estimation of meat production in Meghalaya (Department of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture, Government of India).
Hukum Chandra, UC Sud, AK Gupta and DC Mathur
20. Risk assessment and insurance products for agriculture (NAIP Component-I: Consortium Partner)
NCAP, New Delhi **SS Raj** (CPI)
IASRI, New Delhi **Anil Rai**, PK Malhotra, Ramasubramanian V, KK Chaturvedi (till 31.08.2010)
21. Visioning, Policy Analysis and Gender (V-PAGe) Sub-Prog. III: Policy analysis & market intelligence (NAIP Component-I: Consortium Partner).
NCAP, New Delhi **Ramesh Chand** (Consortium Leader), **P Ramasundaram** (CPI)
IASRI, New Delhi **VK Bhatia**, AK Vasisht (till 01.03.2010), DR Singh, Ashok Kumar, SP Bhardwaj, Prawin Arya, Sushila Kaul (till 30.03.2010), Anil Rai, KK Chaturvedi (till 31.08.2010)
22. Visioning Policy Analysis and Gender (V-PAGe) Sub-Prog. II: Technology forecasting (NAIP Component-I:



Consortium Partner).

NCAP, New Delhi

IASRI, New Delhi

IARI, New Delhi

Ramesh Chand (Consortium Leader), **P Ramasundaram** (CPI)

VK Bhatia, Ramasubramanian V, Amrender Kumar, Satya Pal, Anil Rai, KK Chaturvedi (till 31.08.2010)

Girish Kumar Jha

Completed

23. Econometric study of long-run effect of public investment in irrigation on food grains productivity (completed on 20.08.2010).

Ashok Kumar, SP Bhardwaj

24. Developing remote sensing based methodology for collecting agricultural statistics in North-East hilly region (Space Application Centre, Ahmedabad) (completed on 30.09.2010).

Prachi Misra Sahoo, Anil Rai, Tauqueer Ahmad, Samir Farooqi

25. An econometric analysis of groundwater markets in Indo-Gangetic Plains of India (completed on 30.11.2010).

DR Singh, AK Vasisht, Prawin Arya, Ashok Kumar, Mahender Singh

New Initiated

26. Farm power machinery use protocol and management for sustainable crop production (initiated on 01.04.2010 Association of IASRI w.e.f. 08.02.2010).

IARI, New Delhi

Indra Mani, Dipankar De, MS Kalra, JK Singh, Adarsh Kumar, PK Sahoo, PK Sharma, Alka Singh

IASRI, New Delhi

Tauqueer Ahmad

27. District-level poverty incidence estimation from NSSO data using small area estimation technique (CSO, MOS& PI, Government of India) (initiated on 15.09.2010).

UC Sud, Tauqueer Ahmad, VK Jain

MODELING AND SIMULATION TECHNIQUES IN BIOLOGICAL SYSTEMS

On Going

28. Whole genome association analysis in common complex diseases: An Indian initiative (DBT Fuded).

BK Thelma(UDSC, New Delhi); Ramesh C. Juyal(NII, New Delhi); Sanjay Jain (DU, Delhi); **AR Rao** (IASRI, New Delhi); Ashok Kumar(AIIMS, New Delhi); Ajit Sood (DMC, Ludhiana)

29. Bioprospecting of genes and allele frequency for abiotic stress tolerance (NAIP Component-IV: Consortium Partner)

NRCPB, New Delhi

T Mohapatra (CPI)

IASRI, New Delhi

AR Rao, SB Lal, Sudeep

New Initiated

30. Genomics and molecular markers in crop plants (Sub-project 4: Development of new genomic and EST resources and functional genomics of thermotolerance in mandate crops) (initiated on 28.10.2010)

NRCPB, New Delhi

NK Singh, Kishore Gaikwad

IASRI, New Delhi

AR Rao

DEVELOPMENT OF INFORMATICS IN AGRICULTURAL RESEARCH

On Going

31. Management system for post graduate education.
Sudeep, Hari Om Agarwal, Pal Singh
32. Machine learning approach for data mining.
IASRI, New Delhi: **Anshu Bharadwaj**, Shashi Dahiya
NCAP, New Delhi: Rajni Jain
33. Project information and management system of ICAR (PIMS-ICAR).
RC Goyal, PK Malhotra, VH Gupta, Sudeep, Alka Arora, Pal Singh
34. National information system on agricultural education network in India (NISAGENET-III).
RC Goyal, VH Gupta
35. Software for survey data analysis 2.0.
SB Lal, Anu Sharma, VK Mahajan, Hukum Chandra, Anil Rai
36. Development of expert system on seed spices.
IASRI, New Delhi **SN Islam**, Hari Om Agarwal
NRC on Seed Spices, Tabiji, Ajmer: RK Kakani, Krishna Kant, OP Aishwat, MA Khan, GK Tripathi
37. Development of web enabled statistical package for agricultural research (SPAR 3.0).
Sangeeta Ahuja
38. Development of gender information system for agriculture.
NRCWA, Bhubneshwar **HK Dash**, M Srinath and Sabita Mishra
IASRI, New Delhi **SB Lal**, Anu Sharma, Anil Rai
39. Expert system for maize crop (Collaboration with Directorate of Maize research).
IASRI, New Delhi **Hari Om Agarwal**, Sudeep, Harnam Singh Sikarwar
DMR, New Delhi **Virendra Kumar Yadav** (CCPI), Sain Dass (upto June 2010), Jyoti Kaul,
Sangit Kumar, P. Kumar, K. P. Singh, Chitermal Parihar (since February 2010)
40. Strengthening Statistical Computing for NARS (NAIP Component-I: Consortium Leader with 08 other Consortium Partners).
VK Bhatia (Consortium Leader), **Rajender Parsad** (Consortium PI), PK Malhotra, VK Gupta,
VK Mahajan, Seema Jaggi, Samir Farooqi, Ramasubramanian V, LM Bhar, AK Paul, N Shivaramne

Completed

41. An eLearning solutions for agricultural education using MOODLE (completed on 18.08.2010).
Shashi Dahiya, Anshu Bharadwaj, KK Chaturvedi, Seema Jaggi, Cini Varghese
42. Strengthening, refining and implementation of expert system on wheat crop management (DOC: 24.08.2010).
SN Islam, HO Agarwal, Mohd. Samir Farooqi, KK Chaturvedi, HS Sikarwar
43. Web solutions for partially balanced incomplete block designs (completed on 30.11.2010).
Anu Sharma, Cini Varghese, Seema Jaggi
44. Knowledge data warehouse for agricultural research (completed on 30.09.2010).
Anil Rai, PK Malhotra, Seema Jaggi, KK Chaturvedi, Prachi Misra Sahoo, Mohd. Samir Farooqi
45. Decision support system for manpower planning – PERMISnet-III (completed on 31.01.2011).
Alka Arora, Balbir Singh, Samir Farooqi, Shashi Dahiya, Anil Rai

New Initiated

46. Establishment of National Agricultural Bioinformatics Grid (NABG) in ICAR (NAIP Component-I: Consortium Leader with 05 other Consortium Partners) (initiated on 01.04.2010).
VK Bhatia (Consortium Leader), **Anil Rai** (Consortium PI), PK Malhotra, KK Chaturvedi (on study leave from 31.08.2010), SB Lal, Anu Sharma, Samir Farooqi, Sudeep, Hukum Chandra, AR Rao, Seema Jaggi