



Linkages and Collaboration in India and Abroad including Outside Funded Projects

S. No.	Title	Collaborative/ Funding Agency	Date of Start	Date of Completion
ICAR Institutes/ SAUs				
1.	Planning, designing and analysis of experiments planned ON-STATION under PDFSR	PDFSR, Modipuram	01 April 2007	31 March 2012
2.	Planning, designing and analysis of ON-FARM experiments under PDFSR	PDFSR, Modipuram	01 April 2007	31 March 2012
3.	Planning, designing and analysis of data relating to experiments conducted under AICRP on LTFE	AICRP on LTFE IISS, Bhopal	01 April 2007	31 March 2012
4.	Development of forecasting module for podfly, <i>Melanagromyza obtusa</i> Malloch in late pigeonpea	IIPR, Kanpur	01 July 2007	30 June 2012
5.	Visioning, Policy Analysis and Gender (V-PAGe) - Sub-Programme II : Technology forecasting	NCAP, New Delhi (NAIP Component-I)	01 June 2007	30 June 2012
6.	Visioning, Policy Analysis and Gender (V-PAGe) Sub-Programme III : Policy analysis and market intelligence	NCAP, New Delhi (NAIP Component-I)	01 June 2007	31 March 2012
7.	Development of gender information system for agriculture	DRWA, Bhubaneswar	01 April 2008	07 September 2011
8.	Machine learning approach for data mining	NCAP, New Delhi	01 August 2008	18 April 2011
9.	Risk assessment and insurance products for agriculture	NCAP, New Delhi (NAIP Component-I)	01 October 2008	31 March 2012
10.	Development of expert system on seed spices	NRCSS, Ajmer	01 February 2009	09 June 2011
11.	Expert system for maize crop	DMR, New Delhi	01 April 2009	30 April 2011
12.	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)	NRCPB, New Delhi	01 April 2009	31 March 2014
13.	Farm power machinery use protocol and management for sustainable crop production	IARI, New Delhi	01 April 2009	31 March 2014

S. No.	Title	Collaborative/ Funding Agency	Date of Start	Date of Completion
14.	Strengthening statistical computing for NARS	NDRI, Karnal; IVRI, Izatnagar; MPUAT, Udaipur; DWM, Bhubaneshwar; ICAR RC NEHR, Barapani; UAS, Bengaluru; NAARM, Hyderabad; CIFE, Mumbai (NAIP Component-I)	20 April 2009	30 June 2012
15.	Bioprospecting of genes and allele mining for abiotic stress tolerance	NRCPB, New Delhi (NAIP Component-IV)	04 May 2009	31 March 2012
16.	Weed assessment and management in the crops and cropping system	IARI, New Delhi	24 October 2009	31 March 2014
17.	Development of innovative convenience food as protein supplement	IARI, New Delhi	24 October 2009	31 March 2014
18.	Weather based forewarning models for Onion Thrips (<i>Thrips tabaci</i> Lindeman)	DOGR, Pune	01 April 2010	30 September 2012
19.	Weather based forewarning of mango pests	CISH, Lucknow; RFRS, Vengurle; BCKV, Mohanpur; BAC, Sabour; FRS, Sangareddy	01 April 2010	31 March 2013
20.	Establishment of National Agricultural Bioinformatics Grid	NBPGR, New Delhi; NBAGR, Karnal; NBFGR, Lucknow, UP; NBAIM, Maunath Bhanjan, UP; NBAIL, Bangalore (NAIP Component-I)	01 April 2010	31 March 2013
21.	Pest and diseases dynamic vis-a-vis climatic change under the project National Initiative on Climate Resilient Agriculture	NCIPM, New Delhi (NICRA)	01 June 2011	31 March 2012
22.	Enhancing resilience of agriculture to climate change through technologies, institutions and policies	NCAP, New Delhi (NICRA)	29 August 2011	28 August 2014
23.	National initiative on climate resilient agriculture Agroforestry Component	NRCAF, Jhansi (NICRA)	01 June 2011	31 March 2012
24.	Development of web based mushroom expert system	DMR, Solan	01 April 2011	30 September 2012
25.	Strengthening & refinement of Maize AgriDaksh	DMR, New Delhi AICRP Centers (IARI, New Delhi; Coimbatore; Arbhavi; Kolhapur; Godra; Bhubneshwar; Varanasi; Ludhiana; Srinagar; Banswara; Assam)	01 April 2011	31 March 2016
26.	Phenomics of moisture deficit and low temperature stress tolerance in rice	NRCPB, New Delhi IARI, New Delhi Delhi University, New Delhi CRRRI, Cuttack; IGKV, Raipur CAU, Barapani ICAR RC-NEHR, Barapani	15 February 2011 (13 May 2011)	14 February 2016
27.	Study of synonymous codon usage and its relation with gene expressivity in genomes of halophilic bacteria	NABIM, Mau	01 August 2011	31 January 2013
28.	Sustainable livelihood through goat farming by disseminating the improved goat production technologies	CIRG, Makhdoom	01 July 2009 (27 September 2010)	23 March 2013
29.	Impact of improved technologies and emerging market conditions on goat production system	CIRG, Makhdoom	01 July 2009 (27 September 2010)	23 March 2013



S. No.	Title	Collaborative/ Funding Agency	Date of Start	Date of Completion
30.	Efficacy of soil sampling strategies for describing spatial variability of soil attributes	IISS, Bhopal	01 August 2010 (01 November 2011)	31 July 2012
31.	Livelihood and nutritional security of tribal dominated rural areas through integrated farming system and technology models	MPUAT, Udaipur IARI, New Delhi (NAIP Component-III)	01 July 2007 (01 August 2011)	31 March 2012
32.	Development of forecasting methodology for fish production from ponds of upland region	DCFR, Bhimtal	01 August 2011 (23 September 2011)	31 January 2013
33.	ePlatform for seed spice growers	NRCSS, Ajmer	17 December 2011	30 September 2013
34.	Strengthening & refinement of Maize AgriDaksh	DMR, New Delhi	01 April 2011	30 September 2013
35.	Implementation of Management Information System (MIS) including Financial Management System (FMS) in ICAR	NAIP Component-I	19 January 2012	31 March 2013
36.	In silico identification of abiotic stress (salinity) responsive transcription factors and their cis-regulatory elements in grapes	NRC, Pune	01 January 2012	31 December 2013
Government of India				
37.	Whole Genome Association (WGA) analysis in common complex diseases: An Indian initiative	UDSC, NII, Delhi University, AIIMS, DMC (DBT Funded)	29 September 2008	28 September 2013
38.	Sampling methodology for estimation of meat production in Meghalaya	Ministry of Agriculture, Department of Animal Husbandry, Dairying & Fisheries, New Delhi	01 May 2009	30 April 2011
39.	District-level poverty incidence estimation from NSSO data using small area estimation techniques	CSO, Ministry of Statistics & Programme Implementation, Government of India	15 September 2010	14 September 2011
40.	Experimental designs in the presence of indirect effects of treatments	DST funded	01 October 2011	30 September 2014

सांख्यिकी-विमर्श

अंक 7

2011-12



Vision 2030



वार्षिक रिपोर्ट ANNUAL REPORT

2010-11



भारतीय कृषि सांख्यिकी अनुसंधान संस्थान
(भारतीय कृषि अनुसंधान परिषद्)
लाइब्रेरी एवेन्यू, पुसा, नई दिल्ली-110 012

INDIAN AGRICULTURAL STATISTICS RESEARCH INSTITUTE
(INDIAN COUNCIL OF AGRICULTURAL RESEARCH)

LIBRARY AVENUE, PUSA, NEW DELHI - 110 012

www.iasri.rai.in



IASRI NEWS

Volume 16

No. 4

January-March, 2012

- Research Achievements
- Human Resource Development
- Panorama of Activities

- Awards and Recognition
- Publications
- Lectures Delivered

- Participation
- Consultancy/Advisory Services
- Personnel



From Director's Desk . . .

This newsletter highlights some of the salient research and training achievements made and other significant activities performed during the period under report.

For providing service oriented computing, Indian NARS Statistical Computing portal has been strengthened by adding the link of augmented block designs. For Half-Yearly Progress Monitoring (HYPM) of the Scientists in ICAR, a web based software for online submission of half yearly progress report of the scientists has been designed and developed. Geographically weighted empirical best linear unbiased predictor for small area means has been developed under area level model. Portal for submission of genomic data and four different genomic databases have been developed and opened for data feeding.

IASRI NEWS

Volume 16

No. 4

January - March, 2012

RESEARCH ACHIEVEMENTS

- **Strengthened Indian NARS Statistical Computing Portal (<http://stat.iasri.res.in:8080/iasri.narsportal/>)**
For providing service oriented computing, Indian NARS Statistical Computing portal was established under NAIP Consortium on Strengthening Statistical Computing Portal for the users of NARS. Analysis of data generated from any block design (complete or incomplete), split plot design and combined analysis of block designs is available on this portal. During the quarter, the portal has been strengthened by adding analysis of data generated from augmented block designs. The service oriented computing module for block designs has been updated to accommodate the designs in which treatments are appearing more than once in a block. There are 4587 hits from NARS outside Indian Agricultural Statistics Research Institute, out of which 810 for during the quarter.
- **Half-Yearly Progress Monitoring (HYPM)**
To implement Dr. P.L. Gautam's Committee recommendations on DG Half-Yearly Progress Monitoring (HYPM) of the Scientists in ICAR, a web based software for online submission of half yearly progress report of the scientists has been designed and developed at IASRI, New Delhi. This software will be implemented from April 01, 2012. Four zone-wise Sensitization cum. Training workshop for the Officers-in-charge of PME Cells (Nodal Officers) of all ICAR institutes have been organized. A total number of 116 participants from 84 Institutes (Bureaus/ Directorates / NRICs) participated in the workshops. In all the workshops, detailed presentation including introduction of HYPM, the objectives of the workshop and the role and responsibilities of Nodal Officers to maintain the HYPM website from their respective institutes were given by HYPM team. In particular the prerequisite activities that need to be executed by the PME Cell in charge - Nodal Officer at their respective institute before implementation of HYPM system were discussed in detail.
- **Linear Trend Free Block Designs Balanced for Spatial Indirect Effect from Neighbouring Experimental Unit**
Indirect effects are effects which occur in an experiment due to the units which are adjacent (spatially or temporally) to the unit being observed. Considering more than one relationship between observations on units over space, the methodology for estimating the direct and spatial (neighbour) indirect effects has been developed under a block design setup with neighbour effect and incorporating trend component. Two types of linear trend free block (one complete and one incomplete) designs have been obtained that are totally balanced for estimating direct and spatial (neighbour) indirect effect of treatments.
- **Spatial Nonstationarity in Small Area Estimation under Area Level Model**
For the study geographically weighted empirical best linear unbiased predictor for small area means has been developed under area level model. The developed estimator of small area mean is based on geographically weighted regression approach to incorporate the spatial nonstationarity present in the data. In particular, the developed method captures the local variation or relationship between the variable of interest and available auxiliary information via location-specific models in small area estimation.
- **National Agricultural Bioinformatics Grid**
Portal for submission of genomic data and four different genomic databases has been developed and opened for data feeding. Process of development of machine learning tools for application of genomics profiles has been initiated. Gene expression of salt tolerant rice cultivars has been studied and genes were identified for further cross validation.