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Title of the project / consortium: Establishment of National Agricultural Bioinformatics Grid (NABG) in ICAR

Name of the Component: Component 1

Lead Institute with address: Indian Agricultural Statistics Research Institute, Library Avenue, Pusa, New Delhi -110 012

Partner – Institutes with address: Details of partners are given in following tables

Consortium Partner	Full Address with Phone, Fax and E-mail
IASRI, New Delhi	Indian Agricultural Statistics Research Institute, Library Avenue, Pusa, New Delhi-11012 Ph: 011-25841479, Fax: 011-25841564, e-mail: anilrai@iasri.res.in
NBPGR, New Delhi	National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi-110012, Ph: 011-25843697 / 25841177, Fax: 011-25842495.
NBAGR, Karnal	National Bureau of Animal Genetic Resources, G.T. Road Bye-Pass, P.B.No.129, Near Basant Vihar, Karnal-132001 Haryana, Ph: 0184-2267918, Fax: 0184-2267654,
NBFGR, Lucknow	National Bureau of Fish Genetic Resources, Canal Ring Road, P.O. Dilkusha, Lucknow -226 002, U.P. Ph: 0522-2441735 / 2442441, Fax: 0522-2442403,
NBAIM, Mau	National Bureau of Agriculturally Important Microorganisms, Kusmaur (Post Bag- Kaithauli), Post Box-6, Maunath Bhanjan, Uttar Pradesh-275101Ph: 0547-2530158 / 2530080, Fax: 0547-2530381.
NBAII, Bangalore	National Bureau of Agriculturally Important Insects (NBAII), Post Bag No:2491, H.A. Farm Post, Bellary Road, Bangalore - 560 024.Karnataka. Ph: 080-23414220, Fax: 080-23411961

Objectives:

- Development of agricultural bioinformatics grid for the country
- Creation of local databases and Bioinformatics Data Warehouse (BinDW) for genomic resources across species
- Human resource development in agricultural bioinformatics
- Create and promote inter-disciplinary research groups with focus on agricultural bioinformatics

Duration: April 1, 2010 to March 31, 2012

Total cost: Rs. 5865.86 Lakhs

Overall Work Programme::**First Year Activities: 2010-11**

S. No.	Activities	Q-I	Q-II	Q-III	Q-IV
1.	Project detailing –All institutions	√	√		
2.	Writing status paper of respective domains/ fields – Domain and Nodes			√	√
3.	Hiring consultants –CABin and domain centers	√	√	√	
4.	Assessment of training requirements – All institutions	√	√		
5.	International Training			√	√
6.	Designing and standardization of database structure and schema for collection and retrieval –CABin and domain centers			√	√
7.	Detailing technical specification of H/W and S/W- CABin and Domain Centers		√	√	
8.	Procurement and installation of H/W and S/W- All institutions				√
9.	Organization of sensitization workshops and trainings- All institutions			√	√
10.	Establishment of training labs- CABin and Domain Centers		√	√	√

Second Year Activities: 2011-12

S. No.	Activity	Q-I	Q-II	Q-III	Q-IV
	Designing and standardization of database structure and schema for collection and retrieval -CABin	√	√	√	
	Procurement and installation of H/W and S/W- All institutions	√	√		
	Organization of workshops and sensitization trainings	√	√		
	Establishment of training labs- CABin and Domain Centers	√	√		
	Organization of training program- CABIn and Domain Centers			√	√
	Design and development of genomic Data Warehouse- CABin		√	√	√
	Report writing				√

Expected Output:

- Well coordinated National Agricultural Bioinformatics Grid
- Indian agricultural biological information resource
- High end data warehousing, data mining and web interface facilities for agricultural bioinformatics research
- Analysis of cross species genomic data for National Agricultural Bioinformatics Grid users
- Human resource development to meet the human resource needs in bioinformatics

Expected Outcome:

- Enhanced pace of application of biotechnological tools for increased agricultural production and sustainability.
- Emergence of India as a key international player in bioinformatics in agriculture