

## 18. Organization and Management

### DARE

The Department of Agricultural Research and Education (DARE) was established in the Ministry of Agriculture in December, 1973. Subjects allocated to the DARE as per the Government of India (Allocation of Business) Rules are specified in Appendix 1 of DARE.

The Indian Council of Agricultural Research (ICAR) is an autonomous body under the Department of Agricultural Research and Education. The Secretary to the Government of India in the DARE functions as the Director General of the ICAR. The Financial Advisor of the DARE is the Financial Advisor of the ICAR. Generally single-file system is followed between DARE and ICAR.

The Department has Central Agricultural University (CAU), Imphal, and Bundelkhand under its administrative control. The CAU, Imphal has its jurisdiction over the North-Eastern States: Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Sikkim and Tripura, and is wholly financed by the Government of India.

DARE has 17 Group A, 16 Group B, 11 Group C, and 6 Group D posts. The recruitment to the post in the Group A, B, C is being made centrally, either through the Department of Personnel and Training or through the Department of Agriculture and Co-operation, depending on the level of the post. DARE makes direct recruitment only to Group D posts. Such recruitments are being made in accordance with the orders of the Government of India regarding reservations for Scheduled Castes, Scheduled Tribes, and Other Backward Class. Presently, DARE has 5 Scheduled Castes and 1 Scheduled Tribes employee.

A detailed break up of the posts and names of the important functionaries is given in Appendix II. The financial requirement (Grant No. 2) includes budget estimates (BE) and revised estimates (RE) of DARE, CAU and ICAR (Plan and Non-Plan) 2011–12 respectively and BE for 2012–13 (Plan and Non-Plan). The detailed break up of these financial figures is given in Appendix III.

### ICAR

The Indian Council of Agricultural Research is an autonomous organization under the Department of Agricultural Research and Education, Ministry of Agriculture, Government of India. Formerly known as Imperial Council of Agricultural Research, established on 16 July 1929 as a Registered Society under the Societies Registration Act 1860, on the recommendations of the Royal Commission of Agriculture, and has been reorganized twice, in 1965 and 1973. The headquarters of the ICAR is located at Krishi Bhavan, New Delhi, and its other buildings are Krishi Anusandhan Bhavan I

and II, and NASC Complex, New Delhi.

The Union Minister of Agriculture is the President of the ICAR. The Principal Executive Officer of the ICAR is the Director General, who also acts as Secretary to the Government of India in the Department of Agricultural Research and Education. The General Body of the ICAR Society is the supreme authority of the ICAR, and the Union Minister of Agriculture, Government of India, heads it. Its members are the Ministers for Agriculture, Animal Husbandry and Fisheries, and the Senior Officers of the various state governments, representatives of Parliament, industry, educational institutes, scientific organizations and farmers (Appendix 1).

The Governing Body (Appendix 2) is the chief executive and decision-making authority of the ICAR. It is headed by the Director General, ICAR who also acts as Secretary, DARE. It consists of eminent agricultural scientists, educationists, legislators and representatives of the farmers. It is assisted by the Accreditation Board, Regional Committee, Policy and Planning Committee, several Scientific Panels, and Publications Committee. In the scientific matters, the Director General is assisted by eight Deputy Directors General, one each for (i) Crop Science, (ii) Horticulture, (iii) Natural Resource Management, (iv) Agricultural Engineering, (v) Animal Science, (vi) Fisheries, (vii) Agricultural Education and (viii) Agricultural Extension. Besides one National Director (NAIP) and one National Co-ordinator who looks after the Secretariat of National Basic Strategic and Frontier Application Research in Agriculture (NFBSFARA) also assist Director General, ICAR.

The Deputy Directors General are responsible for the Institutes, National Research Centres, and the fundings of Projects Directorates in their respective fields. The National Director (NAIP) is responsible for all the research projects running under Components I to IV of NAIP. The NAIP supported a number of policy and institutional changes and financing investments in 185 sub-projects under four components. Besides, three sub-projects under Component-3 were funded by additional financing grant from the Global Environment Facility Trust Fund of the World Bank. In view of the progress shown and the lag in implementation of phase I, NAIP has been granted extension till 30 June 2014.

The ICAR recruits scientists and to such other posts and services as may be specified by the President, ICAR from time to time through competitive examination/direct recruitment by selection etc. through its independent recruitment body, Agricultural Scientists' Recruitment Board, established on 1 November 1973. The ASRB is accountable to the President of the ICAR Society. The ICAR received funds from the Government of India and from the proceeds of the Agricultural



Produces. The Senior Officers post at the ICAR (Hqrs) is listed in Appendix 3 of the ICAR. The Research set up of the ICAR includes 51 Institutes (Appendix 4), 6 National Bureaux (Appendix 5), 35 Project Directorates and Zonal Project Directorates (Appendix 6), 17 National Research Centres (Appendix 7), and 78 All-India Co-ordinated Research Projects and Network Projects (Appendix 8).

The 'Directorate of Knowledge Management in Agriculture' (DKMA) works as communication arm of the ICAR responsible for delivery of information/knowledge generated by the network of the ICAR and its institutions. The DKMA addressed its mandate through Publications and Information, AKMU and Public Relations units. The E-Publishing Knowledge System in Agricultural Research, a project under NAIP increased visibility of ICAR literature in 182 countries and there is enhancement in the number of foreign authors for the research journals.

The ICAR promotes research, education and extension education in 55 State Agricultural Universities, 5 Deemed Universities, and 4 Central Universities with Agricultural facility by giving financial assistance in different forms; and DARE promotes 1 Central Agricultural University for the North-Eastern Hills Region (Appendix 9).

## INTELLECTUAL PROPERTY AND TECHNOLOGY MANAGEMENT

### IP Protection and Grant of Titles

**Patents:** Twenty research institutes filled 50 patent applications, taking the cumulative patent applications number to 716 filed by 58 institutes. Applications covered a range of technology areas, viz. crops and horticulture, dairy and veterinary sciences, fisheries and farm implements and machinery.

Eight national patent applications were granted in 2012 and two applications granted by United States Patent and Trademark Office (USPTO), viz. 'An Artificially Synthesized Peptide' (in collaboration with DBT) and 'A Process for the Production of Organic Formulation of Bio-Pesticide *Pseudomonas fluorescens*'. The cumulative total of granted patents increased to 137.

**Copyrights, Design and Trademarks:** Three copyrights were filed by IASRI, New Delhi for Monograph Hadamard Matrices; Monograph  $\alpha$ -designs; and Expert System for Maize Crop (Maize AGRIdaksh). One application for Design registration was submitted by IVRI, Izatnagar for IVRI Foetal Extractor. Trademarks were also registered to ensure the quality of goods and services provided by ICAR institutes. Accordingly, trademark "CRIJAF SEED" was filed by CRIJAF, Kolkata; "DRR" (word & logo) by DRR, Hyderabad; "SHATPADA" by NBAIL, Bengaluru and "CARIUTTAM" by Central Avian Research Institute, Izatnagar.

**Plant Varieties:** As the Protection of Plant Varieties and Farmers' Rights Authority notified new genera, applications for 45 varieties (38 extant and 7 new) were

filed at the Plant Variety Registry. The cumulative total of applications filed by ICAR for plant variety registration rose to 876 application (784 extant and 92 new varieties) which included cereals (wheat, rice, maize, sorghum, pearl millet) 502; oilseeds (sesame, groundnut, castor, sunflower, soybean, linseed, Indian mustard) 30; pulses (pigeonpea, lentil, chickpea, mung bean/green gram, pea, kidney bean, *urd* bean/black gram) 174; commercial crops (jute, cotton, sugarcane) 128; horticultural crops (chrysanthemum, ginger, turmeric, black pepper, small cardamom, potato, cauliflower, cabbage, brinjal, tomato) 42. The cumulative total of varieties granted registration rose to 326. These included grant of registration certificates to 128 (3 New and 125 Extant) varieties: comprising wheat (07); rice (23); maize (13); sorghum (8); pearl millet (5); pigeonpea (13); lentil (1); chickpea (44); jute (7); cotton (5); and sesame (2).

### Capacity Building for Strengthening IP

For training and capacity building in soft skills to understand and appreciate the nuances of IPR and technology commercialization, scientists/staff were encouraged to attend programmes that enhance their capabilities to take appropriate strategic and management decisions about the protection and exploitation of institutional intellectual property; and accordingly more than 172 persons from 30 institutes participated in different programmes at reputed national and international organizations, including ASSOCHAM India, New Delhi; FICCI, Hyderabad; Thomson Reuters, New Delhi and Mumbai; Michigan State University, USA; PPV&FR Authority, New Delhi; Indian Institute of Management, Ahmedabad; Indian Institute of Management, Indore; Indian Law Institute, New Delhi; Society for Technology Management (STEM), Pune; NIIPM, Nagpur etc.

Further, to strengthen the IP and enhancing the technology management capabilities Seminars/Lectures/Trainings/Workshops were organized by 11 ICAR institutes; these were attended by 1361 researchers, practitioners and farmers.

### Outreach activities

With the objective of making research demand-driven by getting closer to the client and generating ability to respond to changing environmental and client needs with greater alacrity, ICAR and Confederation of Indian Industry (CII) jointly organized four Regional Meets in partnership with the State Agriculture Universities. These Meets were held at Ahmedabad, Coimbatore, Hisar and Agartala in cooperation with Anand Agriculture University, Anand; Tamil Nadu Agriculture University, Coimbatore; CCS Haryana Agriculture University, Hisar; and Central Agriculture University, Imphal respectively. Besides, the Institute Technology Management Units (ITMUs) also organized commodity/region specific programmes to promote commercialization of successful research results and encourage partnerships with diverse stakeholders. These included: Tuber Crops Research



Subject Area	Technology Applied for Patenting
<b>Crops and Horticulture</b>	
Bio-formulations	Process for Improved Yield of <i>Trichoderma biomass</i> ; Samfungin: Novel fungicide; Wetttable Powder Formulation of <i>Paecilomyces lilacinus</i> ; Organic Fertilizer of Banana Pseudostem; Production of Coir Pith Cake; Extraction of Bio-pesticide; Multi-nutrient Organic Manure; Compost-Gypsum Blocks
Biotechnological Processes	Production of Antibodies for ELISA-based Diagnosis; Genetic Engineering of Male Sterility and Transgene Containment in Plants; Anti Cancer activity of cyclic dipeptide isolated from novel bacteria
Crop Production/Protection	Production Process of High quality white pepper; Decontamination of Pesticide Residues; Light Trap for Managing Insects; Insect Parasitoid and Predator Collection Device
<b>Veterinary and Dairy</b>	
Animal Health Diagnostics	Bio-Marker-based Detection of Bovine Sub-clinical Mastitis; Kits for Parentage Verification; Solid State Bioreactor; Bio-formulations for Carbendazim Tolerance; Antibodies Detection Kit, Primers, Method for Sex Determination in Chicks
Animal Based Value Added Products	Herbal Meat Product; Use of Goat Milk Fat in Meat Products; Process for Aurvedic <i>Paneer</i> , Flavoured Milk and Whey Drink; AJAS Goat Milk Based Products; RTE Salty Crisp Milk Product; RTC Milk Chips; Production of Xylo-oligosaccharides from finger millet straw
<b>Fisheries</b>	
Fish Products and Processes	Medicated Feed Mix; Nutra-pharmaceutical feed mix for fungal treatment in aquatic animal; Extruded fish product; Fish enriched noodles; Fiber Glass Sheathed Rubber Wood Canoe; Seafood Self-Heating Pack; Fish Gravy Powder; Concentrates from Seaweeds; Feed for Improved Growth in Fish; RTE Thermal Processed Smoked Tu; Insulation Fish Bags; Taurine Extraction From Fish Head
Testing Kits/Diagnostics Methods	<i>In Vitro</i> Culture of Glochidia Larvae; Extraction of Caroteinoprotein; Production of High Purity Glucosamine Hydrochloride; kit for Identification of White Spot Disease; Collagen-chitosan Tissue Regeneration Membrane; Fish De-scaling Machine; Development of Fish Gel; Depuration System for Bivalves
<b>Farm Implements and Machinery</b>	
Farm Implements and Machinery	Machine for Peeling Litchi and Scooping Out the Pulp; Guar Dehulling Machine; Banana Fibre Spining System; Fineness Tester of Jute and Allied Fibers; Water Application Device-LEWA; Design of Device to Assess Leaching of Chemicals; Straw Reaper; Combine Harvester; Palm Climbing Device; Potting Machine for Nursery; Sugarcane Bud Chipping Machine; Jute Ribboning Machine; Auto-cleavable microencapsulation system
Nano-technological Processes	Slow release Nano-Formulations; Nano-copper based formulation; Nano-induced Bacterial Polysaccharid; Ohmic Heating System for Food Products; Production of Nanocellulose
Post Harvest Products and Processes	Candy of Banana Pseudostem; Enzymatic Pretreatment to Cottonseed kernel; Integrated Grading System of Jute; Dietary Fiber rich Biscuits; Fiber Extraction from Mango Processing Waste; High Protein Carotene Rich Pasta.

Patent Number	Technology/ Innovation
IN250709 (A01N 1/02)	A kit for diagnosis of <i>Brucellosis</i>
IN250779 (C07K 14/475)	A process for producing a bio-pesticide composition containing <i>Trichoderma harzianum</i> and <i>Pseudomonas fluorescens</i>
IN250880 (A23L 1/00)	Method of determining maturity of intact mango in tree
IN251022 (A01M1/20)	A manually operated low cost handy cryo-freezer for gamete cryopreservation
IN251836 (A01N 65/00)	A multiplant manual ribboning device for extraction of green ribbon from a bundle of jute or mesta plant operable in one cycle
IN252072 (D04H)	Male-specific protein of Indian major carp, <i>Labeo rohita</i> (ham.)—a key for sex differentiation and brood stock management
IN252363 (C12Q1/00)	An insect handling device
IN254341 (C12P 19/34)	Process enabling simultaneous detection of transgenes namely Human Serum Albumin (HAS) and Bar Genes in transgenic wheat
US8216843 (C07K, C12N)	An artificially synthesized peptide
US20080286853 (A01N, C12N)	A process for the production of organic formulation of bio-pesticide <i>Pseudomonas fluorescens</i>

### Some Technologies Commercialized by the ICAR Institutes

#### Crops and Horticulture

**Plant variety:** Wheat: HI 1544; Rice: Ajay (CRHR-7), CR Dhan 701 (CRHR-32), Rajalaxmi (CRHR-5); Maize: Vivek QPM 9, VL Babycorn-1; Chilli: MSH 206, Arka Meghana; Chrysanthemum: Pusa Anmol; *Cymbidium* hybrids; Tomato: Arka Rakshak; Ginger: IISR Varada; Nutmeg: IISR Viswashree; Ajmer Coriander-1; Ajmer Fenugreek 1, 2; Ajmer Fennel 1.

**Bio-formulations:** Arka fermented Coco peat, Bio-bactericide composition B5, DOR Bt-1 formulation, PCR-based detection kit in pomegranate, Rapid detection of Bt-Cry toxin, Bio-pesticides (e.g. *Paecilomyces lilacinus*, *Pochonia chlamydosporia*)

**Biotechnological products:** *Bacillus thuringiensis* Cry2Aagene, Okra SSR markers

**Crop protection devices:** Insect rearing cage, UV chamber for *Corcyra* Eggs, Egg cleaning device, Pheromone trap, *Helicoverpa* oviposition cage; Insect handling device, Light trap

**Post-harvest products and processes:** Banana flower, stem in pickle, juice/RTS and fibre products; Candy from fruits; Coconut chips; Nutraceutical concentrates; PUSA Bajra puff; Pusa fruit drink; Pusa nutri cookies; Insulated ventilated freight containers for Horticulture train; Automatic machine for scooping out the pulp of custard apple; Lac-based fruit coating formulation

#### Dairy and Veterinary Sciences:

**Animal breeds and production technologies:** Poultry breeds: Vanaraja and Gramapriya; Production technologies of CARIBRO Dhanraja, CARIBRO Vishal, CARI Pearl, quail; CARI Priya

**Animal Health, Diagnostics and Vaccines:** PPR vaccine, Vero-cell based sheep pox and goat vaccine, Classical swine fever cell culture vaccine, Cotton strain-19 vaccine, ELISA Blue tongue antibody detection kit, Area specific mineral mixture

**Value added products:** Technology for emulsion based chicken, meat and pork products



Industry Interface (CTCRI, Trivandrum); Research-Industry Interactive Meet (DSR, Mau); Interface Meeting–Sugar industry (IISR, Lucknow); Public-Private Interface (VPKAS, Almora); Agri-business Meet (CIFA, Bhubaneswar); ICAR Industry Day (NRC Yak, Dirang); Farm Innovators Day (CSWCRTI, Dehra Dun); Manufacturers Meet (IARI, New Delhi), ICAR Industry Day (NRC Agroforestry, Jhansi); Industry Interface (DOR, Hyderabad) and Interface meetings for commercialization of technologies (CMFRI, Kochi).

A 'Knowledge Meet' was organized to deliberate on research needs to meet the new challenges and to envision the opportunities to be harnessed from the technological revolution happening globally. The Meet was inaugurated by Prof. Abhijit Sen, Member (Agriculture), Planning Commission and addressed by senior officials from associated Government of India Departments and International organizations. The delegates representing Directors of ICAR Institutes and Vice Chancellors of State/Central Agriculture Universities deliberated to

collectively develop a road map for the long-term so as to orient the proposals for XII Plan.

### Technology Transfer/Commercialization

The technologies generated at the ICAR institutes are being transferred/commercialized through Memoranda of Understandings, licensing agreements, and consultancies/contract research/contract service to farmers, NGOs, government organizations and private organizations (including seed/veterinary/processing/pesticides companies). Thus, about 165 such partnerships were developed by the 20 research institutes with around 118 public and private organizations.

## ADMINISTRATION

### Recruitment

By direct recruitment and promotion following posts were filled up during 2011-12: one in the grade of Under-Secretary, nine in Senior Administrative Officer, seven in Administrative Officer (by promotion) and 25 direct recruitment vacancies in the grade of Administrative Officer and Finance & Accounts Officer, two in Director (Finance)/Comptroller, 25 in Section Officer, two in Principal Private Secretary, three in Private Secretary, one in Legal Adviser, eight in Deputy Director (OL), 51 in Assistant, two in Personal Assistant, 28 in UDC, and one in LDC have been filled by direct recruitment and promotion.

### Financial upgradation granted under MACP scheme

During 2011-12, large number of eligible officers and staff of ICAR (Headquarters and Institutes) were granted financial upgradation under MACP Scheme abide by the Government of India (Department of Personnel and Training).

### Staff welfare fund scheme

- (i) As per the recommendations of the Managing Committee of ICAR Headquarters' Welfare Fund financial assistance of ₹ 25,000 was extended to the family of one deceased employee of the ICAR (Headquarters).
- (ii) 48 Scholarships (₹ 2,500 each) were awarded to the meritorious wards of the Councils' employees under Staff Welfare Fund Scheme.
- (iii) Wards of two employees of ICAR (Headquarters) who died in harness have been appointed on compassionate ground.

## FINANCE

The Plan and Non-Plan allocation (R.E.) to DARE/ICAR for 2011-12 were ₹ 2,850 crore and ₹ 2,157.60 crore respectively. An internal resource of ₹ 137.89 crore (including interest on loans and advances, income from revolving fund schemes, recovery of loans and advances and interest on short-term deposits) was generated. The Plan and Non-Plan allocations (B.E.) for 2012-13 are

₹ 3,220 crore and ₹ 2,172 crore respectively. The details of financial outlay—demand no. 2 of DARE are given in Appendix III.

## PROGRESSIVE USE OF RAJBHASHA

### DARE

The Department of Agricultural Research and Education has an Official Language Section for the compliance and implementation of the Official Language Policy of the Government of India. It consists of one post each of Assistant Director (Official Language), Junior Hindi Translator and Hindi Typist. Besides the



His Excellency President of India, Shri Pranab Mukherjee, conferring 'Indira Gandhi *Rajbhasha Puraskar*' for 2010-11 to Department of Agricultural Research and Education (DARE)

Hindi translation of the Budget, compilation and preparation of the Annual Report of the Department etc. also take place. The functioning of this section also includes holding Hindi workshops, meetings, reports, organizing Hindi *Pakhwada* to encourage the employees for doing their official work in Hindi.

### ICAR

- During 2012-13 three Institutes/Centres of the Council were notified in the Gazette of the Government of India thus raising the total number of notified Institution to 121 under rule 10(4) of the Official Language Rule 1976.
- Joint Official Language Implementation Committee of the DARE and the ICAR working under the Chairmanship of the Secretary DARE/Secretary, ICAR met four times during 2012-13. Similarly, Official Language Implementation Committee constituted at mostly Institutes/Centres convened its meetings.
- Proceedings of the Official Language Implementation Committee meetings held by the Institutes etc. as well as the quarterly progress reports regarding the use of Official Language *Rajbhasha* received from various institutes at the ICAR (Headquarters) were reviewed and proper measures were suggested to overcome the shortcomings found therein.

- Rosters have been maintained for imparting training in Hindi, Hindi typing and Hindi stenography and officials were accordingly deputed for training during the year. This year, only one typist was nominated for Hindi typing.
- This year “*Hindi Chetna Mass*” was celebrated at ICAR (Headquarters) and many programmes were organized for staff to promote the progressive use of Hindi in official business. A Message of Hon’ble Union Minister of Agriculture was issued on this occasion. The DG, ICAR also issued an appeal requesting the officers/staff to do their maximum official work in Hindi. Hindi Day/Week/Month was also organized in different Institutes/Centres of ICAR.
- Four Hindi Workshops were also organized for various categories of officers/staff.
- During 2011–12 cash awards were given away to 10 officials at headquarters for doing their maximum official work in Hindi.
- Evaluation is being done to give away prizes to institutes for the *Rajarshri Tandon Rajbhasha Puskar* for 2011 and *Ganesh Shankar Vidyarthi Utkrist Hindi Krishi Partika Puskar*.
- In accordance with the recommendations made by the Department of Official Language and the Parliamentary Committee on Official Language, to assess the progressive use of Hindi at the Council Headquarters as well as its institutes 31 offices were inspected during 2012, and suggestions were given to improve the shortcomings. Second Sub-Committee of the Parliamentary Official Language Committee inspected 13 Institutes/Centres of the Council during this year.
- *Krishika*, biannual research journal in Hindi was started during 2012–13.
- The Council and its institutes are organizing regular training programmes for farmers in Hindi and in other regional languages and remarkable progress has been made at Krishi Vigyan Kendras situated in Hindi speaking region in the use of Hindi and in the other regional languages in their day to day official work.
- Besides all the material regarding Parliament, Annual Plan Report, Review of demands for grants, General Body, Standing Finance Committee, Parliamentary Standing Committee on Agriculture, AGM of ICAR Society and many other meetings were prepared bilingually. The drafts of speeches of Hon’ble Union Agriculture Minister and other higher officials of ICAR were prepared originally in Hindi also.

### TECHNICAL COORDINATION

The Council provided the financial support to 56 journals for publication, 35 societies/association/universities for holding National Seminars/Symposia/

Conferences and 22 societies/association/universities for holding International Seminars/Symposia/Conferences. Annual grant to NAAS, Indian Science Congress and IAUA were also released. Fifty queries from VIPs, nine queries under RTI Act, 51 Parliament Questions were replied. Annual Report of DARE 2011–12 and Account Report were placed before the Parliament.

The ICAR Directors’ Conference 2012 was held from 17 to 18 February, 2012 under the chairmanship of Dr S. Ayyappan (Secretary, DARE and DG, ICAR). Besides interface of the ICAR Directors and the Vice Chancellors of Agricultural Universities was inaugurated by the Hon’ble Union Minister of Agriculture and Food Processing Industries, Shri Sharad Pawar who felicitated Dr K.L. Chaddha (a renowned Horticulturist) and Dr V.P. Singh (Ex-Scientist, IARI, New Delhi) for having been conferred with the prestigious Padma Shri award and said that it is a matter of great pride and honour for ICAR. After the inaugural session.

This Unit organized ICAR Regional Committees (RC) No. I–II and IV–VIII Meetings, such as RC I at CSK Himachal Pradesh Krishi Vishwavidyalaya, Palampur, from 8 to 9 June 2012; RC II NAARM, Hyderabad from 19 to 20 July 2012; RC IV at A.N. Sinha Institute of Social Studies, Patna from 21 to 22 September 2012; RC V at IARI, New Delhi from 14 to 15 December 2012; RC VI at CAZRI, Jodhpur from 16 to 17 November 2012; RC VII at International Centre, Goa from 9 to 10 November 2012; and RC VIII at TNAU, Coimbatore from 15 to 16 June 2012 respectively.

### FOUNDATION DAY AND AWARDS CEREMONY

H.E. (Former) 14<sup>th</sup> President of India, Dr A.P.J. Abdul Kalam, delivered the ‘Foundation Day Lecture and appreciated efforts of the ICAR on 16 July 2012. The ICAR Award-2011 function was also held on same day as part of Foundation Day. The Chief Guest of the function, Shri Sharad Pawar (Hon’ble Union Minister of Agriculture & Food Processing Industries and President, ICAR Society) gave away the awards and said that the recognition through Awards should lead to enhanced zeal



Bharat Ratna Dr A.P.J. Abdul Kalam, fourteenth President of India inaugurated 84<sup>th</sup> Foundation Day of the ICAR



and creative work by the Awardees. Shri Harish Rawat, Union Minister of State for Agriculture & Food Processing Industries and Parliamentary Affairs; and Dr Charan Das Mahant, Union Minister of State for Agriculture & Food Processing Industries graced the occasion.

Eightythree awardees under sixteen categories were

conferred awards. These comprise three Institutions, one AICRP, nine KVKs, nine Farmers, one Journalist, four Teachers and 56 scientists. Among 56 scientists there were 5 women scientists. The awardees gave a presentation of their achievements on 14 July 2012 before a panel of experts.

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