



18.

Organization and Management

DARE

The Department of Agricultural Research and Education (DARE) was established in the Ministry of Agriculture in December, 1973 to coordinate and promote agricultural research and education in the country. DARE provides the necessary government linkages for the Indian Council of Agricultural Research (ICAR), the premier research organization for coordinating, guiding and managing research and education in agriculture including horticulture, fisheries and animal sciences in the entire country. With 108 ICAR institutions and 65 agricultural universities spread across the country this is one of the largest national agricultural research systems in the world. Apart from ICAR the Department of Agricultural Research and Education has other autonomous bodies, viz the Central Agricultural University (CAU), Imphal and Agrinnovate India Limited, Delhi under its administrative control.

The CAU, Imphal was established in 1993 and is fully funded by the Government of India. It has its jurisdiction spread over the North-eastern States, e.g. Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Sikkim and Tripura. The DARE is the nodal agency for International Cooperation in the area of agricultural research and education in India. The Department liaises with foreign governments, United Nations, CGIAR and other multilateral agencies for cooperation in various areas of agricultural research. The DARE also coordinates admissions of foreign students in various Indian agriculture universities/ICAR institutions.

The Agrinnovate India Limited, incorporated on 19 October 2011, aims to work on the strengths of DARE and ICAR and promotes the development and spreads its research and development outcomes. The Agrinnovate India Ltd., a company is expected to stimulate, foster, enhance and catalyse innovation driven agricultural development through efficient use of innovations, human resource and capabilities of the NARS. The Company, as an extended independent commercial outfit, is expected to capitalize on the vast network of the ICAR institutes where the researchers are engaged in their mission to innovate and harness science to provide citizens access to food, nutrition, livelihood and income security.

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, it was established on 16 July 1929 as a Registered Society

under the Societies Registration Act 1860, on the recommendations of the Royal Commission of Agriculture. The organization has been reorganized twice in 1965 and 1973. The ICAR's headquarters is located in Krishi Bhavan, New Delhi.

The Union Minister of Agriculture is the President of the ICAR. He also heads the General Body of the ICAR Society, which is the supreme authority of the ICAR. 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 Director General is the Principal Executive Officer of the ICAR, who also functions as Secretary to the Government of India in the Department of Agricultural Research and Education. He is assisted by the Secretary of the ICAR who also functions as the Additional Secretary of the Department of Research and Education, Ministry of Agriculture.

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

The Deputy Directors General are responsible for the functioning of the Institutes, National Research Centres, and the 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 NC (NFBSFARA) looks after the Secretariat of National Basic Strategic and Frontier Application Research in Agriculture.



The Research set up of the ICAR includes **51** Institutes (Appendix 4), **6** National Bureaux (Appendix 5), **34** Project Directorates and Zonal Project Directorates (Appendix 6), **17** National Research Centres (Appendix 7) and All-India Coordinated Research Projects and Network Projects (Appendix 8).

The ‘Directorate of Knowledge Management in Agriculture’ (DKMA) works as a 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 Media units. The ‘E-Publishing Knowledge System in Agricultural Research’, a project under NAIP has increased visibility of ICAR literature in 202 countries. There is also enhancement in the number of foreign authors for the research journals brought out by the DKMA.

The ICAR is funded through the grants received from the Government of India and through internal resource generation. The Senior Officers posted at the ICAR (Headquarters) are listed in Appendix 3.

The ICAR recruits its scientists and other personnel through competitive examination/direct recruitment by selection etc. through its independent recruitment body, Agricultural Scientists’ Recruitment Board (ASRB), which was established on 1 November, 1973. The ASRB is accountable to the President of the ICAR Society.

The ICAR promotes research, education and extension education in **55** State Agricultural Universities (Appendix 9), **6** Deemed Universities, and **4** Central

Universities with Agricultural facility by giving financial assistance in different forms; DARE promotes 1 Central Agricultural University for the North-Eastern Hills Region and Agrinnovate India Ltd.

The total sanctioned as well as existing strength of the employees of the ICAR system, including those belonging to the scheduled castes, scheduled tribes and other backward classes is given in Appendix 10. Through its extensive network of research infrastructure, backed by an excellent team of scientists and other employees, the ICAR is making rapid strides in agricultural research, and provides support to the national efforts in achieving food security and self-sufficiency.

Intellectual Property and Technology Management

Intellectual Property and Technology Management (IP&TM) activities in the ICAR mainly cover: (i) IP protection applications as patents, copyrights, designs, trademarks and plant variety rights; (ii) technology showcasing and promotion organizing industry and stakeholders meets/workshops/ campaigns; and (iii) licensing agreements for multiplication and supply of technologies and services to user agencies and individuals.

IP protection and grant of titles

Patents: In five subject areas 26 research institutes filed, 83 patent applications taking the cumulative figure to 826 applications from 68 ICAR institutes.

Indian Patent Office published 87 ICAR applications

Table 18.1 Important patent applications filed

| Subject Areas | Innovations/technologies |
|--------------------------|--|
| Agricultural Engineering | Process technology for utilization of digested biogas slurry for cellulose production; Cellulosic materials incorporating nano zinc oxide; Intracanopy spraying system for cotton and pigeon pea crops; LPG fired thermic fluid heated deep fat dryer; Optical scanner based fabric pilling measurement system. |
| Animal Sciences | Buffalo casein hydrolysates rich in <i>Caseino phosphopeptides</i> ; Cell culture attenuated live Orf vaccine for protection of goat/sheep; Development of <i>Peste-des-Petits Ruminants</i> (PPR) negative marker vaccine; Kit for parentage verification in Indian Ruminant livestock; Novel enzyme substrate based rapid assay for detection of <i>Listeria monocytogenes</i> in milk; Novel method of chrome tannage of mithun hides with glyoxalic acid; Primer composition for molecular sex typing in pigs. |
| Crop Science | Amphiphilic polymers based slow release nano-formulations of α -carotene; Anti-oxidant and anti-bacterial di-aryl-indazol-3-ols; Cross flow flexible membrane filtration assembly for small processing volume; Development of nano-induced biological phosphorous fertilizer (NB-PHOS) using <i>Aspergillus flavus</i> CZR-2; Development of polymeric formulations of bioactive molecules; <i>Magnaporthe oryzae</i> polynucleotide associated with rice blast resistance; Method for producing gamete sterile plants; Process for preparation of bio-fumigants from leaves of <i>Lantana</i> ; Rapid synthesis of platinum nano-particles from <i>Aspergillus flavus</i> TFR12. |
| Fisheries | A device and process to separate oyster meat from shell using pressurized steam; Development of galvanized iron cage for finfish culture in open sea, gene specific probe and primers, and nested RT-PCR for detection of Indian isolate of Mourilyan virus in <i>Peneaus monodon</i> ; Process of unambiguous identification of inter-generic hybrid of <i>rohu</i> and <i>catla</i> , to isolate anti-inflammatory principles from green mussel <i>Perna viridis</i> L., and for imaging bacteria using immobilizing matrix from bagasse. |
| Horticulture | Modified CTAB method for isolation of high quality and quantity of genomic DNA from fresh mature leaves of orchids; DNA-based diagnostics for identification of citrus root stock cultivars; Micronutrient composition for ginger; Novel method of storing and slivering PGPR/Microbes through bio-capsules; Rotating drum roasting machine for raw cashew nuts. |



| Patent Numbers | Technologies/ Innovations | Date of grant/ priority date |
|----------------|--|------------------------------|
| IN255661 | A mechanical system for chopping and crushing of water hyacinth plants | 13 March 2013 |
| IN256424 | Product from lignocellulosic waste for the remediation of water contaminated with heavy metals | 14 June 2013 |
| IN256572 | Immobilizing matrix from bagasse for bacterial biomass and a process for preparation thereof | 03 July 2013 |
| IN257068 | Process for manufacture of spray dried cheddar flavour base/concentrate | 30 August 2013 |

filed during 2003 (2), 2009 (4), 2010 (15), 2011 (44), 2012 (13), and 2013 (9). Two patent applications filed in foreign countries were: (i) A process for producing a bio-pesticide composition containing *Trichoderma harzianum* and *Pseudomonas fluorescens*, and (ii) A process for the production of organic formulation of bio-pesticide *Pseudomonas fluorescens*. Indian Patent Office granted four patents, taking ICAR’s cumulative number of granted patents to 161 from 25 institutes.

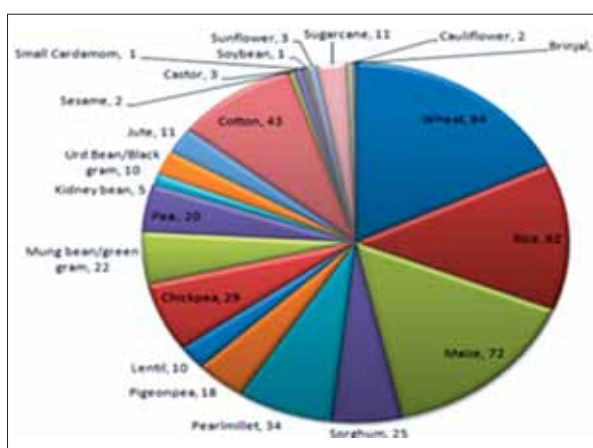
Copyrights: Fourteen copyrights were filed/registered by CSWRT&I, Dehara Dun; IASRI, New Delhi; and IVRI, Izatnagar. These *inter-alia* included: web-based software for survey data analysis (SSDA 2.0); Indian NARS Statistical Computing Portal; Knowledge data Warehouse for Agricultural Research (KWAR); Soil Loss Tolerance Limit (SLTL) calculator (software); Decision support system for contour trenching; Design resource server; Monograph α -designs; and USAR-An EIA tool for managing salt affected agricultural lands and irrigation waters. A total of 48 filed copyrights have been thus recorded from 11 ICAR institutes.

Designs: Five applications were filed by IVRI, Izatnagar: (i) urinary catheter, (ii) interlocking nail system for tibia of cattle and buffaloes, (iii) designer locking compression plate for tibia of cattle and buffaloes, (iv) designer locking plate for repair of fracture in radius, and (v) portable restraining device for large animals (TRAVIPORT). The 17 filed design applications have been thus recorded from 31 ICAR institutes.

Trademarks: Registered trademarks included: (i) CARI, Izatnagar (*CARIBRO-DHANRAJA* - commercial multicoloured broiler chicken; *CARISWETA* - white feathered quail; *CARIPRIYA* - commercial layer chicken; *KADAMBARI*-guinea fowl); and (ii) CPCRI, Kasaragod (word and logo). A total of 33 trademarks have been filed from 16 ICAR institutes.

Plant varieties: As the Protection of Plant Varieties and Farmers’ Rights Authority notified new genera, applications for 87 varieties (72 extant, 04 new and 11 farmers’ varieties) were filed at the Registry. For earlier applications, 138 varieties (127 extant, 9 new and 2 essentially derived) were granted registration certificates; taking the cumulative figure of registered varieties to 469.

The cumulative total for plant variety protection applications rose to 982 (875 extant; 96 new and 11 farmers’ varieties; which included: (i) cereals 518 (wheat, rice, maize, sorghum, pearl millet); (ii) oilseeds 89



Crop-wise distribution of registered plant varieties

(sesame, groundnut, castor, sunflower, soybean, linseed, Indian mustard, safflower, yellow *sarson*, *toria*, *gobhi sarson*, brown *sarson*); (iii) pulses 179 (pigeon pea, lentil, chickpea, *mung* bean/green gram, pea, kidney bean, *urd* bean/black gram); (iv) commercial crops 152 (jute, cotton, sugarcane); and (v) horticultural crops 44 (chrysanthemum, ginger, turmeric, black pepper, small cardamom, potato, cauliflower, cabbage, brinjal, tomato).

Outreach activities

A total of 79 awareness generation programmes/ interface/product specific meets/ workshops/ seminars were organized by 33 ICAR institutes. These *inter-alia* included: Agri-business camps/investors’ Meet for different commodity groups (viz. fisheries, cotton technologies, seed and planting materials, and plant health management); Entrepreneurship Development Programmes (EDP) for technologies on biomass utilization and biotechnology in horticulture; Farm Innovators Day; ICAR-Industry Interface Workshop 2013; Interactive Meeting on ‘Quality standards for raw cashew nuts’; NAIP Zonal Food Processing and PHT Industry Meet, 2013; National Workshop on Business Opportunities in Freshwater Fisheries; NDRI Industry Meet; Post-harvest Technology-cum-Agricultural Engineering Entrepreneurs Meet; and Training and Capacity Building for Plant Variety Protection and DUS Testing.

Technology Transfer/Commercialization

Business relationships were developed through Memoranda of Understandings, Licensing Agreements and Consultancies/Contract Research/Contract Service

with farmers, NGOs, government and private organizations (including seed/veterinary/processing/pesticides companies). A total of 340 partnership agreements were finalized by 42 ICAR institutes with 193 organizations. These agreements were entered into for 157 technologies from different disciplines of agriculture viz, Agricultural Engineering (29), Animal Sciences (31), Crop Science (53), Fisheries (10), and Horticulture (34).

TECHNOLOGIES COMMERCIALIZED BY THE ICAR INSTITUTES

Farm Machinery: Adjustable row marker; Broad bed furrow machine; *Cassava* harvester and hand-operated and motorized chipping machine, Cono weeder, Palmyrah fibre separator, and Pusa aqua ferti-seed drill.

Veterinary Science: Diagnostic kits for parentage verification in buffaloes, camels (single and double humped), Indian ruminant livestock, and Zebu cattle (*Bos indicus*).

Dairy Science: A qualitative and quantitative test for anionic detergent in milk; Detection of *Enterococci* in milk technology; New colour-based method technology for detection of detergent in milk; Two stage enzyme-based assay for detection of *Listeria monocytogenes* in milk.

Animal-based value added products: Emulsion based chicken products; Hurdle technology-based meat pickle; method for preparation of salted chicken eggs.

Plant varieties: Rice, DRRH-2, DRRH-3, Pusa Punjab Basmati Rice-1509, Rice Hybrid HI 1544; cauliflower, Pusa Hybrid-2, Kartik Shankar; Carrot, Pusa Rudhira; Cucumber, Pusa Sanjog; Cowpea, Kashi Kanchan, Kashi Nidhi; tomato - Swarna Sampda, Swarna Vijaya; and gladiolus, Pusa Manmohak, Pusa Unnati, Red valentine.

Plant growth promotion and protection: Novel insecticidal WP formulations of *Heterorhabditis indica* strain NBAlI *Hi1* for the biological control of white grub and other soil insects pests; Customised leaf colour chart; Seedpro—a microbial plant growth promoter and fungal disease suppressor; Nano-formulations of bioactive molecules i.e. Carbofuran, *Azadirachtin*, Imidacloprid; Nano-sulphur (Monoclinic, Orthorhombic and Nano-hexaconazole sulphur).

Post-harvest products and processes: Anthocyanin extraction from Black/ Purple Carrot, *Capsicum* salsa; Iron fortified biscuits; Lac-based Nail Polish; Pusa Nutri Cookies, Pearl Puff, Soya Nuts; Steviol glycoside extraction from *Stevia* leaves; Virgin coconut oil preparation by hot process; Wine from litchi fruits; and Nanocellulose production technology.

Fish production technologies

A device for breeding and culturing marine fish in open sea; Asian Sea base seed production technology; CIFABROOD - an exclusive carp brood stock diet; cadalminTM GAe (anti-inflammatory drug from

seaweeds); FRP Portable Carp Hatchery; Immunoboost C- an immuno-stimulant for brood fish health.

ADMINISTRATION

Recruitment

During 2012-13, the following posts have been filled up under direct recruitment and promotion quota: Director (1); Deputy Secretaries (4); Administrative Officer (14); Deputy Director/Chief Finance and Accounts (5); Senior Finance and Accounts Officer (2); Finance and Accounts Officer (6); Section Officers (5); Assistants (40); Principal Private Secretary(1); Private Secretary (1); LDC(1).

Financial up-gradation granted under MACP scheme

During 2012-13, large number of eligible officers and staff of ICAR (Headquarters and Institutes) were granted assured career progression scheme in accordance with the Government of India (Department of Personnel and Training) instructions in this regard.

Staff Welfare Fund Scheme

During 2012-13, the following activities have been made under staff welfare:

- As per the recommendations of the Managing Committee of ICAR (Headquarters) Welfare Fund, financial assistance of ₹ 25000 was extended to the family of one deceased employee of the ICAR Headquarters.
- Forty-six Scholarships (₹ 2500/- each) were awarded to the meritorious wards of the Council's employees under the scheme.
- Ward of one employee of ICAR (Headquarters) who died in harness has been appointed on compassionate ground.

New Initiatives

ISO 9001:2008 Certification for ICAR: The DARE and ICAR have become one of the first departments in the country in obtaining the certification by implementing the Quality Management System in the organization as per the ISO 9001:2008 standards. Shri S.K. Khanna (Deputy Director General, Bureau of Indian Standards) presented the certificate to Dr S. Ayyappan (Secretary, DARE and DG, ICAR) on 16





July, 2013. Acquiring ISO 9001:2008 certification is one of the performance monitoring indicators required to be complied with by all the Government Departments in the country as per the Result Framework Document (RFD) prescribed by the Performance Management Division, Cabinet Secretariat.

The pesticide residue laboratory, IIHR was accredited in accordance with the standard ISO/IEC 17025:2005 in the field of chemical testing by National Accreditation Board for Testing and Calibration Laboratories, Department of Science and Technology, Government of India, on 16 October 2012.

Implementation of Office Automation system in ICAR (Headquarters): In a step towards e-governance for better transparency and efficiency, ICAR has undertaken office automation of the headquarters office. The e-office introduced involves computerization of the workflow covering the transmission of files, requests for leave, tour proposals, availability of required information for day-to-day work and many other useful features.

The Council is also on the RTI portal of the Government of India for online receipt, disposal and monitoring of the RTI applications. Other major initiatives at computerization include a systems for monitoring Court cases and Vigilance cases.

The Council is following the directions of the Ministry of Finance regarding publishing of all its tenders on the e-procurement portal of the Government of India and will also undertake the procurement process electronically to maximize participation and transparency.

Facebook page of ICAR: The ICAR has its facebook page (www.facebook.com/InAgrisearch) to connect with the people of the Country in general and youth in particular. The facebook page provides relevant information in a crisp and interesting manner. It has become popular with more than 15,000 likes in nine months.

FINANCE AND AUDIT

The Plan and Non-Plan allocation (R.E.) to DARE/ICAR for 2012-13 were ` 2,520.00 crore and ` 2,100.00 crore respectively. An internal resources of ` 185.47 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 for 2012-13. The Plan and Non-Plan allocation (B.E.) for 2013-14 are ` 3,415.00 crore and ` 2,314.17 crore respectively.

PROGRESSIVE USE OF RAJBHASHA

DARE

The 'Hindi Section' achieved all the targets pertaining to *Rajbhasha* as detailed below:

- The Official Language Division of the Department manned by an officer of the level of Assistant

Director (OL) has made relentless efforts towards implementation of the instructions issued by the Department of Official Language policy in the Department and the Autonomous Bodies under its administrative purview, Hindi Section of the Department carries out translation work under Section 3 (3) of Official language Act. DARE has made the following efforts for progressive use of *Rajbhasha* in the Official Language Policy of the Government.

- Quarterly Joint Meetings of Official Language Implementation Committee with ICAR were held regularly under the Chairmanship of the Additional Secretary of the Department, who is the nodal officer for implementation of the official language policy in DARE. During the year, four meetings were organized and follow up actions were taken in compliance with the decisions taken in these meeting.
- Quarterly progress reports regarding use of *Rajbhasha* in the Department are sent to the Department of Official Language regularly.
- During the year, 3 offices were inspected and suggestions were given to solve the practical problems being faced by the employees of the offices while working in Hindi.
- Officers have been issued instructions to make use of the services of stenographers, PAs, PSs trained in Hindi Stenography for doing the work in Hindi. The Stenographers not knowing Hindi Stenography are being nominated for such training.
- During the year, some work relating to General Administration has been specified to be done in Hindi.
- Effective check points have been prepared for compliance of the implementation of the Official Language Policy.
- The *Hindi Chetna Maas* was observed from 14 September to 13 October, 2013 in the Department in collaboration with ICAR. On the occasion, the Messages of Union Minister, and Secretary, DARE and DG, ICAR regarding progressive use of Hindi were circulated. Various competitions with active participation of officers and employees were held.
- In an effort to fulfil the provisions of the Official Language Policy in the electronic mode, the Department has hosted its Official website in English and Hindi. Unicode has been installed in all computers to enable officers/staff to correspond to use of *Rajbhasha* in the electronic mode.

ICAR

The ICAR has taken following steps for the promotion of Hindi:

- During reported period one meeting of the Joint Hindi Advisory Committee was held on 9 April, 2013 under the Chairmanship of the Union Minister of State for Agriculture in which all



the three departments of Ministry of Agriculture including DARE participated.

- The progress of Hindi implementation is reviewed in Senior Officer's Meeting (SOC) every month by the Director General, ICAR and instructions to follow the decisions taken in Joint Hindi Advisory Committee were brought to the notice of all concerned.
- Orders were issued by the Director General, ICAR to all the Officers having proficiency in Hindi to do their maximum work in Hindi.
- During the reported period 3 ICAR Institutes/Centres were notified in the Gazette under Official Language Rule 10 (4) thus raising the total number of notified institutes/offices to 121.
- The Additional Secretary (DARE) and Secretary (ICAR) chaired 04 meetings of the Joint Other Language Implementation Committee's of DARE and ICAR as per the Annual Programme. During the reported period 04 workshops were organized for various categories of staff to make them aware of the Other Language Policy of Government of India and to impart training on Unicode. In most of the ICAR Institutes Other Language Implementation Committees have been functioning.
- During the reported period Cash Awards were distributed to 10 officials at ICAR Headquarters for doing their maximum official work in Hindi.
- *Rajarshri Tondon Rajbhasha Puraskar* was awarded to the following ICAR Institutes:

| ICAR Institution | Award |
|--|--------|
| Big Institutes | |
| IARI, New Delhi | First |
| NDRI, Karnal, Haryana | Second |
| Institutes/Centre of 'A' and 'B' Region | |
| DSR, Indore, Madhya Pradesh | First |
| CARI, Port Blair | Second |
| Institutes/Centre of 'C' Region | |
| CRIDA, Hyderabad, Andhra Pradesh | First |
| CMFRI, Kochi, Kerala | Second |

- *Ganesh Shankar Vidyarthi Utkrist Hindi Krishi Partika Puraskar* was awarded to the following Institutes:

| Hindi Magazine | Name of the Institute | Award |
|---------------------|---------------------------------|--------|
| <i>Neelanjali</i> | CIFRI, Barrackpore, West Bengal | First |
| <i>Pusa Surabhi</i> | IARI, New Delhi | Second |
| <i>Dugdha Ganga</i> | NDRI, Karnal, Haryana | Third |

- On-line reporting is started and quarterly progress reports are sent to the Regional Implementation Office. The review of the quarterly progress

reports received from various Institutes were reviewed at the ICAR (Headquarters) and suggestions are being given to them to improve the implementation. Participation in TOLIC was done on behalf of the ICAR.

- This Directorate is imparting training on Unicode and Hindi typing.
- The Union Agriculture Minister delivered an inspiring message on the commencement of *Hindi Chetna Mass* (organized between 14 September and 13 October 2013) that was sent to all the ICAR Institutions. The Director General, ICAR also appealed to all staff of the Council to make progressive use of Hindi in their official work. 'Slogan Competition' was started on 'ICAR Facebook', wherein ICAR employees from all Institutes participated.
- In accordance with the recommendations made by the Department of Official Language more than 36 Institutes were inspected during 2012-13 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 including ICAR (Headquarters) and ASRB.
- *Krishika*, ICAR's Hindi research biannual journal, and *Rajbhasha Alok* depicting the Hindi activities of different Institutes were uploaded on the ICAR website. www.icar.org.in
- The Council and its institutes are organizing *Kisan Mela* and *Gosthies* in Hindi and other Indian Languages.
- Cabinet Notes, Audit Accounts, Annual Plan, SDG, Governing Body, Parliamentary Standing Committee on Agriculture, Annual General Meeting of the ICAR Society and many other meetings were prepared bilingually. The drafts speeches of Union Agriculture Minister and other higher officials of the ICAR were prepared in *Rajbhasha*.



- The Hindi magazine '*Ikshu*' of IISR, Lucknow was awarded Second prize by Hon'ble President of India on 14 September, 2013 at Vigyan Bhavan, New Delhi

ICAR TECHNICAL COORDINATION

The Council provided the financial support to 43 journals for publication, 36 societies/associations/universities for holding National Seminars/Symposia/Conferences and 23 societies/associations/universities for holding International Seminars/Symposia/Conferences. Annual grant to NAAS, Indian Science Congress and IAUA were also released. Fifteen queries from VIPs, 10 queries under RTI Act, 26 Parliament Questions were replied. Of *DARE 2012-13* and *Audit and Account Report* were placed before the Parliament.

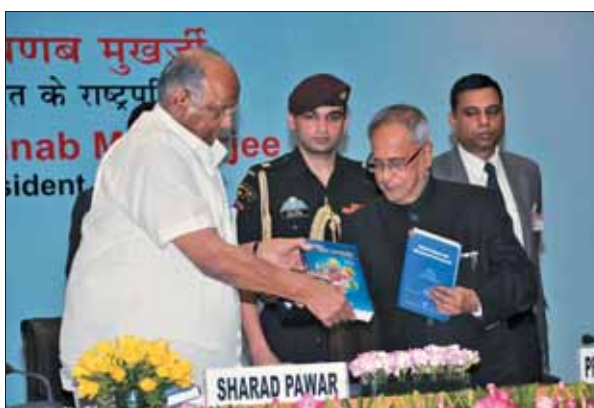
The meeting of ICAR Regional Committee No.III was organized on 17 and 18 April at Assam Agricultural University, Jorhat, and recommendations were issued after approval of the Competent Authority of the ICAR. Monthly reports of major activities achieved in research and other related matter at various ICAR institutes/NRCs/Project Directorates were timely submitted to Cabinet Secretariat and circulated to various Ministries, and the Departments of Government of India. The ICAR collaborated with DSIR in recommending proposals for recognition of in-house research and development units of private entrepreneurs.

Work Plans (20) were prepared for collaboration in the field of agriculture and allied sectors with different countries. The deputation reports of scientists /staff of ICAR were evaluated and screened. The Memoranda of Understandings with State Agricultural Universities were approved by the Competent Authority of the ICAR.

The Proceeding of the Directors' Conference (held on 19 and 20 March 2013) was circulated on 12 April 2013. The Conference was inaugurated by Padam Vibhushan Shri N R Narayana Murthy (Chairman, Infosys Ltd.). Professor M S Swaminathan (MP, Rajya Sabha) also addressed the gathering. During the Conference, Best Annual Report award was conferred to Central Research Institute for Dryland Agriculture, Hyderabad for Big Institute Category, and National Research Centre for Grapes, Pune and National Research Centre for Banana, Tiruchirapalli in Small Institute Category.

ICAR FOUNDATION DAY AND AWARD CEREMONY

President of India, Shri Pranab Mukherjee bestowed the Best Institution Awards on University of Agricultural Sciences, Bengaluru, ICAR Research Complex for North-Eastern Hills Region, Umiam, and National Institute of Animal Nutrition and Physiology, Adugodi, Bengaluru on the occasion of 85th Foundation Day of the ICAR at NASC Complex, New Delhi on 16 July 2013.



Hon'ble President of India, Shri Pranab Mukherjee and Union Minister of Agriculture Shri Sharad Pawar releasing ICAR publications

The Union Minister of Agriculture and Food Processing Industries, Shri Sharad Pawar, distributed awards along with Shri Tariq Anwar and Dr Charan Das Mahant (Union Ministers of State for Agriculture and Food Processing Industries) on the occasion of ICAR Award Ceremony, 2012 (held at NASC Complex, New Delhi) on 16 July, 2013. Shri Sharad Pawar said that the recognition through Awards should lead to enhanced zeal and creative work by the Awardees.

Dr S. Ayyappan (Secretary, DARE and Director General, ICAR) announced that 79 awardees under sixteen different categories were conferred awards. These comprise 3 Institutions, 1 All India Co-ordinate Research Project, 9 Krishi Vigyan Kendras, 9 farmers, 2 journalists and 55 scientists including 10 women scientists.

□