

Organization and Management

DARE

The Department of Agricultural Research and Education (DARE) was established in the Ministry of Agriculture in December 1973. Subjects allotted to the DARE as per the Government of India (Allocation of Rules) are specified in Appendix I 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 one more autonomous body, viz. the Central Agricultural University, Imphal under its administrative control. The University, which was established in 1993 has its jurisdiction over Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Sikkim and Tripura and is wholly financed by the Government of India.

The DARE has 17 Group A, 15 Group B, 12 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. The 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 Classes. Presently, DARE has 6 Scheduled Castes and 1 Scheduled Tribes employees.

A detailed break up of the posts and names of the important functionaries is given in Appendix II of DARE. The financial requirement (Grant

No. 2) includes budget estimates (BE) and revised estimates (RE) of DARE and ICAR (Plan and Non-Plan) 2008-2009 respectively and BE for 2009-10 (Plan and Non-Plan). The detailed break up of these financial figures is given in Appendix III of DARE.

ICAR

The Indian Council of Agricultural Research is an apex organization at the national level for promoting Science and Technology Programmes in the agricultural research and education.

The ICAR was set up on 16 July 1929, as the Registered Society under the Societies Registration Act 1860, on the recommendations of the Royal Commission of Agriculture. It was 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 is also the 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 Minister for 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, education institutes, scientific organization 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. It consists of eminent agricultural scientists,

educationists, legislators and representatives of the farmers. It is assisted by the Standing Finance Committee, Accreditation Board, Regional Committee, Policy and Planning Committee, several Scientific Panels, and Publications Committee. In the scientific matters, the Director-General is assisted by 8 Deputy Directors-General, one each for (i) Crop Sciences, (ii) Horticulture, (iii) Natural Resource Management, (iv) Agricultural Engineering, (v) Animal Sciences, (vi) Fisheries, (vii) Agricultural Education, and (viii) Agricultural Extension. The DDGs are responsible for the Institutes, National Research Centres, and the Projects Directorates belonging to their respective fields. The Senior Officers posted at the ICAR (Hq) are listed in Appendix 3 of the ICAR.

The ICAR receives funds from the Government of India and from the proceeds of the Agricultural Produce Cess.

The ICAR develops technologies and disseminates knowledge to farming community not only for increasing yields of crops and maintaining natural resources but also for elevating community's economics status.

The Research set-up of the ICAR includes 49 Institutes (Appendix 4), 6 National Bureaux (Appendix 5), 25 Project Directorates (Appendix 6), 17 National Research Centres (Appendix 7), and 78 All-India Co-ordinated Research Projects including Network Projects (Appendix 8).

The Directorate of Information and Publications of Agriculture is working independently with the approval of the Competent Authority. It also includes Media and Information Unit, ARIS Unit and Library. This integration of various units under DIPA provided organized strength and efficient use of human, financial and infrastructural resources for creating public awareness through dissemination of information globally by print media as well as electronic media.

DIPA is also working on projects funded by NAIP and increasing public awareness globally through ICAR website.

The ICAR promotes research, education and extension education in 44 State Agricultural Universities, 5 Deemed Universities, 1 Central Agricultural University for the North-Eastern Hills Region, and 4 Central Universities with agriculture faculty by giving financial assistance in different forms (Appendix 9).

For effective communication of research findings among farmers, the ICAR maintains an effective network of Krishi Vigyan Kendras and Trainers' and Training Centre along with Zonal Co-ordinating Units.

The total sanctioned as well as existing strength of the employees of the ICAR system, including

scheduled castes, scheduled tribes and other backward classes, is given in Appendix 10.

Thus with an 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

The capacity building and Human Resource Development efforts made in the past two years have given dividends (number of ICAR institutes seeking IPR protection, number of alternate forms of IPR secured, and number of IPR grants to ICAR has risen). During 2009, ICAR received 1,048 IPR applications (385 patents, 635 plant varieties, 14 trademarks, 17 copyrights for software) from 42 ICAR institutes.

IP disclosure and grant of titles

Patents: Thirteen ICAR institutes filed a total of 55 patent applications [CIRCOT, Mumbai and CIFT, Kochi (13 each), NDRI, Karnal (7), CICR, Nagpur (6), CMFRI, Kochi (4), IARI, New Delhi (3), CPCRI, Kasaragod and CSWRI, Avikanagar (2 each), and CRIDA, Hyderabad; IGFRI, Jhansi; IVRI, Izatnagar; NIRJAFT, Kolkata and NRCMAP, Anand (1 each)]. Also, 2 patent applications earlier filed under the Patent Cooperation Treaty (PCT) entered into national phase in USA, France and Japan. The patents (55) were granted to ICAR.

Plant varieties: Applications for 28 varieties (23 extant and 5 new) of the notified genera/crops were filed at the Plant Variety Registry; raising the cumulative total to 635 applications (577 extant and 58 new varieties). So far, 63 extant varieties have been registered and granted protection; and 301 applications have been published in the *Plant Variety Journal*. Applications submitted/ registered are illustrated.

Other forms of IPRs

Trademarks: ICAR institutes secured 4 Trademarks to distinguish the ICAR products and services offered by these institutes ('Vanaraja' and 'Gramapriya' for breeds by Project Directorate on Poultry, Hyderabad; 'CIFABROOD' for Carp Brood stock diet developed by CIFA, Bhubaneswar; and 'IISR' by Indian Institute of Spices Research, Calicut).

Copyright: The copyrights (6) were registered by ICAR institutes to protect their softwares from unauthorized copying ('Software for design and layout of drip and sprinkler irrigation systems' and 'Decision support system for

Patents granted to ICAR, 2009

Patent Number	Granted on/ With effect from	Title	Inventors/ Institute
227533	13.1.09/4.4.01	Palmyrah fibre separating machine	I. Srinivasan, R. Sudhakar, K. Nagarajan/ CTRI, Rajahmundry
227536	13.1.2009/4.4.01	Additives for improved photostability of <i>Azadirachtin-A</i>	Prem Dureja, S. Johnson, S. Dhingra/ IARI, New Delhi
227691	16.1.09/23.12.05	Biofertilizer-cum-biofungicide/ biobactericide composition B5	V. Sunaina, V. Kishore/ CPRI, Shimla
231054	28.2.09/20.8.02	Seed-cum-fertilizer grain drilling machine	B.K. Dutt/ IARI, New Delhi
232467	17.3.09/12.11.03	The synergistic mineral mixture for increasing milk yield in cattle.	M. C. Sharma, N. Pathak, C. Joshi/ IVRI, Izatnagar
233742	2.4.09/12.4.06	Design and development of coconut deshelling machine	T. Vidhan Singh/ CPCRI, Kasaragod
233744	2.4.09/12.4.06	Development of a manually operated tender coconut punch and cutter	T. Vidhan Singh, K.G. Narayanaswami, M.V. Krishnan/ CPCRI, Kasaragod
234480	29.5.09/14.2.06	Biopesticidal formulation with improved shelflife and the process of preparation	Prem Dureja, B. S. Parmar/ IARI, New Delhi

farm machinery management for optimum selection and matching with power sources' by CIAE, Bhopal; and 4 data arrangement and analysis softwares developed at Directorate of Soybean Research, Indore).

Strengthening the IP and technology management mechanism

The premise of centralized planning and decentralized execution for intellectual property management in ICAR was strengthened; the 3-tier mechanism is operationalised with the establishment of 95 Institute Technology Management Units and further strengthened by establishing 5 Zonal Technology Management Centres at NIRJAFT, Kolkata for East zone; CIRCOT, Mumbai for West zone; IARI, New Delhi for North-I zone; IVRI, Izatnagar for North-II zone; and CIFT, Kochi for South zone. Decision-support system was provided, and thereby convergence streamlined, for the Zonal IP and Technology Management and Business Planning and Development activities; with the constitution of zonal level committees (ZITMCs). Assistant Director-General oversees facilitation, coordination and monitoring needs among the ZTM&BPD Units and the ITMUs from the ICAR headquarters.

Commercialization of technologies

Dissemination of ICAR technologies in partnership with public and private sectors is based on the principles of joint IPR ownerships and pre-decided licensing rights on mutually agreed terms as illustrated in the ICAR guidelines for IP management and technology transfer/commercialization. In 2009, CIAE, Bhopal has licensed 36 technology products by entering into 11 Agreements with various companies. It has

also entered into Research and Development partnership with public agencies and private companies for developing microwave energy-based pilot scale unit for production of edible grade soyflour, and straw reaper with rectangular container. Project Directorate on Poultry, Hyderabad has commercialized 2 chicken varieties, viz. Vanaraja™ and Gramapriya™. Vanaraja is a multicoloured dual purpose bird that attains 1.8 to 2.0 kg body weight at 12 weeks of age and lays 110 eggs in laying cycle under backyard conditions. Gramapriya is an egg type coloured bird, which lays 180-200 eggs in a laying cycle. These birds are well accepted across the country and are performing well in different agro-climatic regions. IARI, New Delhi and some other institutes have also entered into MoUs with private and public sector companies for commercialization of plant varieties/hybrids.

ADMINISTRATION

Filling up of vacant posts: A good number of vacant posts like Under-Secretaries, Senior Administrative Officers, Administrative Officers/ Finance and Accounts Officers/Section Officers / Private Secretaries / Assistants / Personal Assistants/ UDCs / Stenographers / Group 'D' posts were filled up.

Details of total number of employees in ICAR (headquarters) and its research institutes mentioning SC/ST/OBC are given in Appendix 10.

Financial upgradation granted under ACP Scheme: As per the Government of India instructions Financial Upgradation was granted to many eligible employees in various grades during this period, viz. SOs/AAOs/AF&AOs/ AD(OL)/Stenographers / LDC and Group 'D' employees.

Staff Welfare Fund Scheme

- (i) As per the recommendations of the Managing Committee of ICAR Hqrs' Welfare Fund financial assistance of Rs 1,00,000 was extended to the family of 4 deceased employee of the ICAR Hqrs.
- (ii) 42 Scholarships (Rs 2,500 each) were awarded to the meritorious wards of the Council's employees under Staff Welfare Fund Scheme.

Finance and Audit

Avoidable expenditure due to excess procurement: Indian Agricultural Research Institute purchased 3 Gas Liquid Chromotographs against the requirement of only 1. As such, the expenditure of Rs 2.592 millions on procurement of 2 additional Gas Liquid Chromotographs was avoidable (paragraph 9.1)

crore, respectively, and BE for 2009-10 (Plan and Non-Plan) is Rs 3,314.77 crore.

PROGRESSIVE USE OF HINDI

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 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.

Items	Budget Estimates 2008-2009		Revised Estimates 2008-2009		Budget Estimates 2009-2010	
	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan
Major Head '3451'090 Secretary	-	175	-	282	-	374
Major Head '2415'80 General						
International Co-operation(010032) -India's membership Contribution to Commonwealth Agricultural Bureau (020032) - India's membership Contribution to Consultative Group on International Agricultural Research	-	10	-	10	-	10
(030032) -Other Programmes	1100	-	1100	-	*2100	-
(040032) -India's contributions to Asia Pacific Association of Agricultural Institutions (050032) - India's contributions to NACA	-	5	-	5	-	5
(060032) - India's contributions to CGPRT	-	9	-	9	-	9
(070032) - India's contributions to Seed Testing Association	-	5	-	5	-	5
(080032) -ISHS Belgium	-	2.25	-	2.25	-	2.25
	-	0.75	-	0.75	-	0.75

*Includes Rs 20.00 crore for National Fund for Basic and Strategic Research in agriculture

Avoidable expenditure due to failure to obtain separate electrical connection for staff quarters: Failure of National Dairy Research Institute to get separate electric connection for its staff quarters, resulted in avoidable expenditure of Rs 2.516 million from April 2001 to May 2008 due to payment of electricity charges at commercial rates for residential staff quarters (paragraph 9.1)

Councils' response: Action taken notes *vide* para at Sl. No. 2 above has already been furnished to Audit. In respect of paras at Sl. No. 1, the Action taken notes shall be furnished to Audit shortly.

The Budget Estimate (BE) and Revised Estimate (RE) of DARE and ICAR (Plan, Non-Plan) for 2008-09 are Rs 2,680.00 crore and Rs 2,982.64.00

ICAR

- During the period under report 6 Institutes/ Centres of the Council were notified in the Gazette of the Government of India thus raising the total number for notified Institution to 114 under rule 10(4) of the Official Language Rule 1976.
- Joint Official Language Committee of the DARE and the ICAR working under the chairmanship of the Special Secretary, DARE/ Secretary, ICAR met fourth time during the period under report. Similarly, Official Language Implementation Committees 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 Hindi received from various institutes at the ICAR Headquarters were reviewed and proper measures were suggested to overcome the shortcomings found therein.

- Roster has been maintained for imparting training in Hindi, Hindi typing and Hindi Stenography and officials were accordingly deputed for training during the year. This year 5 stenographers and 7 typists were nominated for Hindi stenography and typing respectively.
- This year was observed ‘**Hindi Year**’ and ‘**Hindi Chetna Maas**’ at ICAR(Hqrs) and many programmes were organized for staff to promote the progressive use of Hindi in official business. A message of Hon’ble 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/Fortnight/Month was also organized in different Institutes/Centres of ICAR.
- Hindi Workshops (4) were also organized during the reported period for officers/staff.
- Under the cash award scheme during 2008-09 cash awards will be given to 10 officials at Headquarters for doing this maximum official work in Hindi at ICAR (Hqrs).
- “Under the *RAJARSHRI TANDON RAJBHASHA PURASKAR*” following Institute were awarded for doing their maximum work in Hindi during 2008.
- The First Big Institutes Award has gone to Indian Agricultural Research Institute, Pusa, New Delhi and Second to National Dairy Research Institute, Karnal.
- The First Small Institutes Award of ‘A’ and ‘B’ Region has gone to Central Institute for Research on Goats, Makhdoom, Mathura and Second to National Bureau of Soil Survey and Land Use Planning, Nagpur.
- The First ‘C’ Region’s Institute Award has gone to Central Research Institute on Dryland Agriculture, Hyderabad and Second to Central Marine Fisheries Research Institute, Kochi.
- The First *Ganesh Shankar Vidyarthi Utkrist Hindi Krishi Patrika Puraskar* has gone to Central Institute on Sub-tropical Horticulture, Bikaner; Second to Indian Institute of Horticultural Research, Bengaluru; and Consolation to Central Soil Salinity Research Institute, Karnal.
- Under this scheme Hindi publications brought out by various Institutions during 2008, were

evaluated and the following publications got prizes.

- 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 ICAR (Hqrs) as well as its institutes 17 Offices were inspected during 2009, and suggestions were given to improve the shortcomings. Second Sub-committee of the Parliamentary Official Language Committee inspected 3 Institutes/Centres of the Council during this year.
- The 11th issue of *RAJBHASHA ALOK* was released on the 15 July, 2009 on the occasion of ICAR Foundation Day.
- 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 other regional languages in their day-to-day official work.
- Besides material regarding Parliament, Annual Plan Report, Review of Demands for Grants, General Body, Standing Finance Committee, Parliamentary Standing Committee on Agriculture, Annual General Meeting of the ICAR society and many other meetings were translated and got prepared bilingually. The Hon’ble Agriculture Minister and other higher officials delivered many of their speeches in Hindi. The drafts of speeches of Hon’ble Union Agriculture Minister and other higher officials of ICAR were prepared originally in Hindi also.

ICAR AWARD CEREMONY, 2009

The Union Minister of Renewable Energy, Dr Farooq Abdullah awarded 55 awardees under 12 categories at the NASC Complex, New Delhi. This comprised 3 institutions, 47 scientists, 3 farmers and 2 journalists; out of 47 scientists there are 9 women scientists, Appendix 11.

TECHNICAL COORDINATION

The Coordination work comprised financial support to 40 societies for publication of their scientific journals, 18 societies/Associations/Universities for holding National Seminars/Symposia/Conferences and 12 Societies/Association/Universities for holding International Seminars/Symposia/Conferences. It also included work related to selection of Best Annual Report of Institutes, Preparation of ICAR International Training Calender for conducting training, replies to Parliament Questions, VIP references, IMC/RAC of

various Institutes of the ICAR, Deputation Report and queries under RTI Act regarding Awards. One Regional Committee meeting was organized during October 2009 and proposals for holding 3 more Regional Committee meetings have also been finalized for current financial year.

Monthly Cabinet Report containing major breakthroughs achieved in research and other related matters at various ICAR Institutes/NRCs Project Directorates was submitted to the Cabinet Secretariat, Government of India every month. Copies were also circulated to various Ministers and other related Departments.

Assistance of scientific nature was rendered to DST, DSIR, DAC and other Departments of the Government of India. The Coordination Unit assists in preparation of Memoranda of Understandings and formulation of Work Plans for technical cooperation between DARE and various collaborating partners from abroad. Various MoUs with work plans between DARE (ICAR) and various countries were finalized. Besides this, the Directors' Conferences is to be organized by Coordination Unit during current financial year.

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