

ICT for Agriculture - ICAR Initiatives

Dr. T. P. Trivedi

Project Director and Assistant Director General



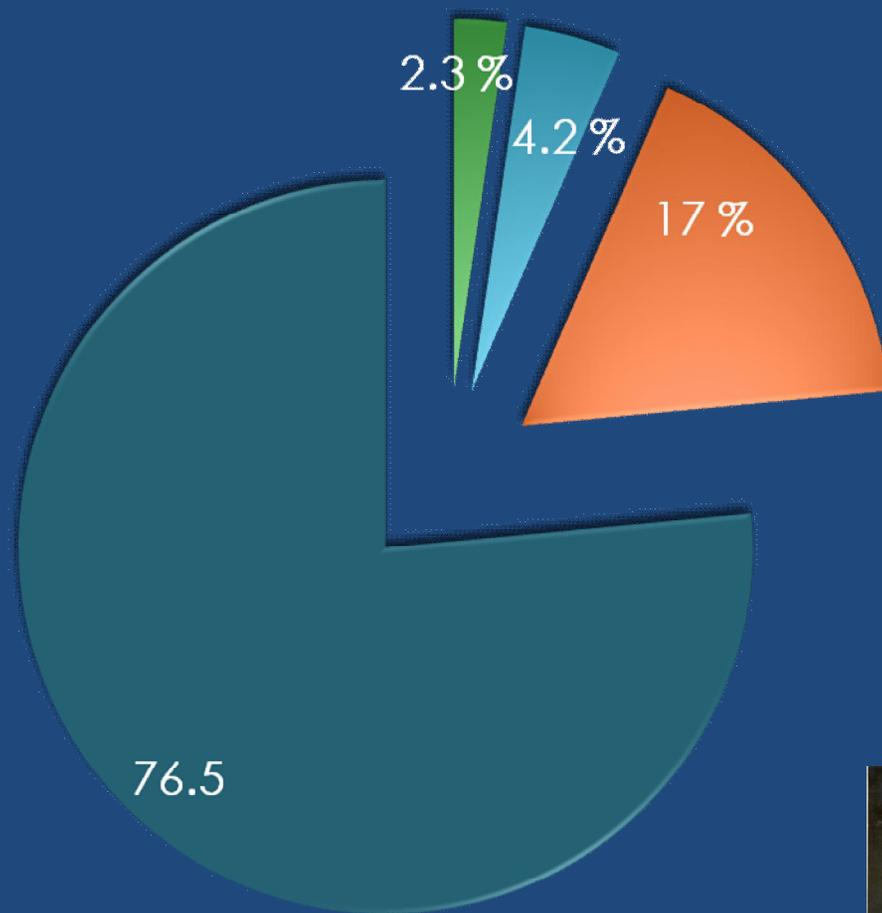
Indian Council of Agricultural Research

Directorate of Knowledge Management in Agriculture

Phone 25842787 e-mail : tptrivedi@icar.org.in

<http://www.icar.org.in/dipa/index.asp>

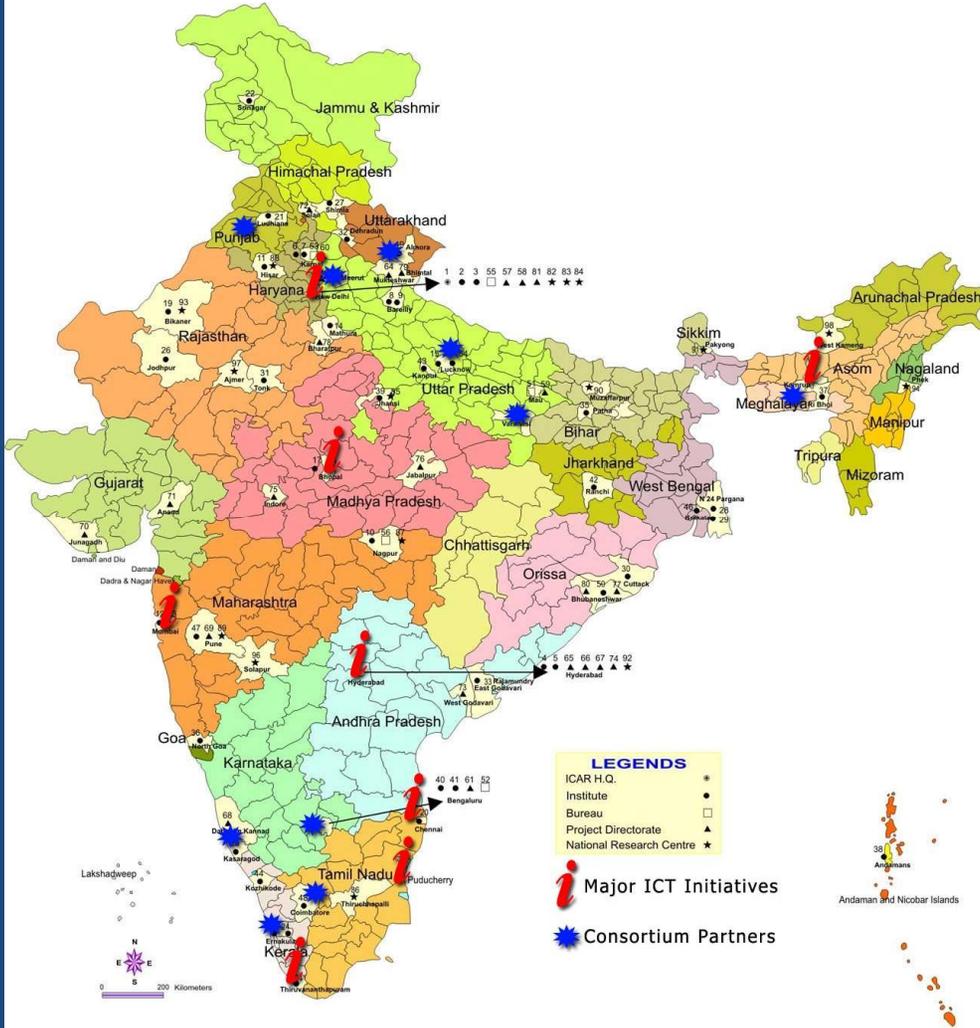
India's Share of Land, Water and Population in World



■ Land ■ Water ■ Population ■ Rest of the World



Indian Council of Agricultural Research (Institutes, Bureaux, Project Directorates and National Research Centres)



LEGENDS

- ICAR H.Q. *
- Institute ●
- Bureau □
- Project Directorate ▲
- National Research Centre ★

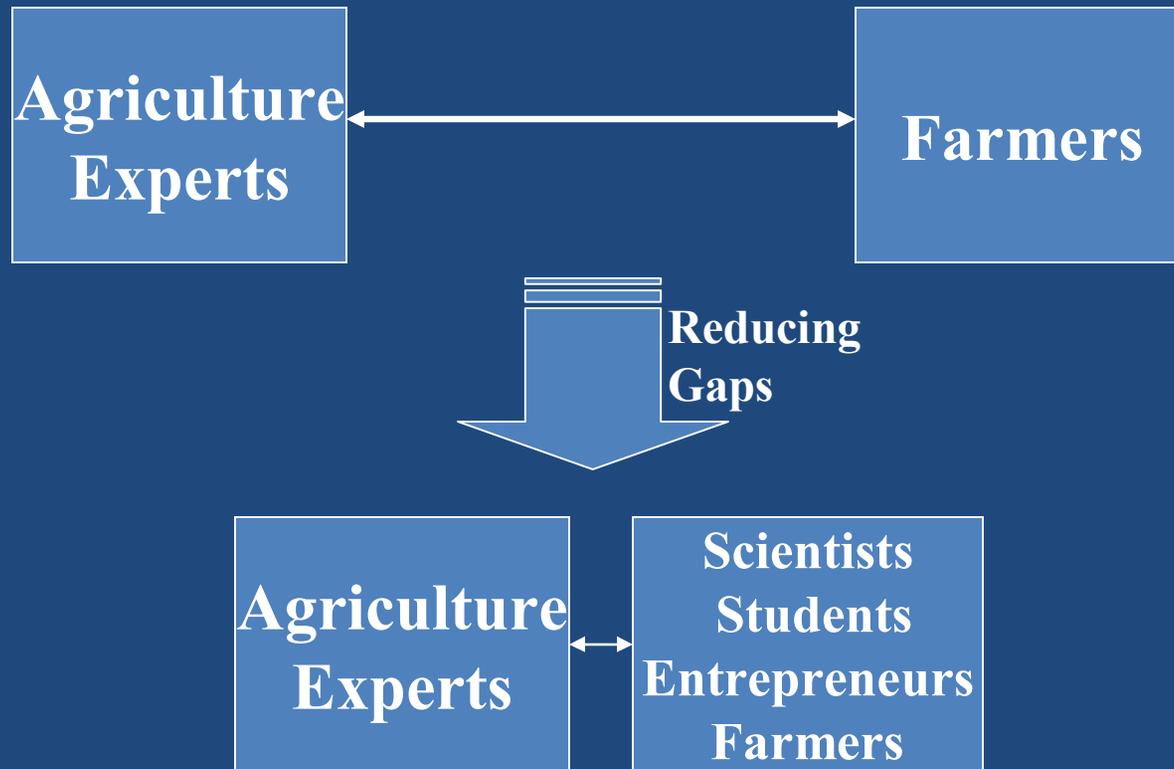
Major ICT Initiatives (Red figure icon)

Consortium Partners (Blue starburst icon)

Entity ID	Headquarters
1	Indian Council of Agricultural Research, New Delhi
ICAR Institute	
2	Indian Agricultural Research Institute, New Delhi
3	Indian Agricultural Statistics Research Institute, New Delhi
4	National Academy of Agricultural Research Management, Hyderabad, Andhra Pradesh
5	Central Research Institute for Dryland Agriculture, Hyderabad, Andhra Pradesh
6	Central Soil Salinity Research Institute, Karnal, Haryana
7	National Dairy Research Institute, Karnal, Haryana
8	Central Avian Research Institute, Bareilly, Uttar Pradesh
9	Indian Veterinary Research Institute, Bareilly, Uttar Pradesh
10	Central Institute for Cotton Research, Nagpur
11	Central Institute for Research on Buffaloes, Hisar, Haryana
12	Central Institute for Research on Cotton Technology, Mumbai, Maharashtra
13	Central Institute of Fisheries Education, Mumbai
14	Central Institute for Research on Goats, Mathura, U.P.
15	Indian Institute of Sugarcane Research, Lucknow, U.P.
16	Central Institute for Subtropical Horticulture, Lucknow, U.P.
17	Central Institute of Agricultural Engineering, Bhopal, M.P.
18	Indian Institute of Soil Science, Bhopal, Madhya Pradesh
19	Central Institute of Arid Horticulture, Bikaner, Rajasthan
20	Central Institute of Brackishwater Aquaculture, Chennai
21	Central Institute of Post Harvest Engineering & Technology, Ludhiana, Punjab
22	Central Institute of Temperate Horticulture, Srinagar, J&K
23	Central Marine Fisheries Research Institute, Cochin
24	Central Institute of Fisheries Technology, Cochin
25	Central Plantation Crops Research Institute, Kasaragod
26	Central Arid Zone Research Institute, Jodhpur, Rajasthan
27	Central Potato Research Institute, Shimla, H.P.
28	Central Research Institute for Jute and Allied Fibres, Barrackpore, West Bengal
29	Central Inland Fisheries Research Institute, Barrackpore
30	Central Rice Research Institute, Cuttack, Orissa
31	Central Sheep and Wool Research Institute, Avikanagar
32	Central Soil and Water Conservation Research and Training Institute, Dehradun, Uttarakhand
33	Central Tobacco Research Institute, Rajamundry
34	Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala
35	ICAR Research Complex for Eastern Region, Patna, Bihar
36	ICAR Research Complex for Goa, Goa
37	ICAR Research Complex for NEH Region, Ri Bhoi,
38	Central Agricultural Research Institute, Port Blair
39	Indian Grassland & Fodder Research Institute, Jhansi, U.P.
40	Indian Institute of Horticultural Research, Bengaluru
41	National Institute of Animal Nutrition and Physiology, Bengaluru, Karnataka
42	Indian Institute of Natural Resins and Gums, Ranchi
43	Indian Institute of Pulses Research, Kanpur, U.P.
44	Indian Institute of Spices Research, Marikunnu, Kerala
45	Indian Institute of Vegetable Research, Varanasi, U.P.
46	National Institute of Research on Jute and Allied Fibre Technology, Kolkata, West Bengal
47	Sugarcane Breeding Institute, Coimbatore, Tamil Nadu

Entity ID	ICAR Institute
48	Vivekananda Parvatiya Krishi Anusandhan Sansthan, Almora, Uttarakhand
49	Central Institute of Freshwater Aquaculture, Bhubaneswar, Orissa
Bureau	
50	Agriculturally Important Micro Organisms, Mau Nath Bhanjan, Uttar Pradesh
51	Animal Genetic Resources, Karnal, Haryana
52	Fish Genetic Resources, Lucknow, Uttar Pradesh
53	Plant Genetic Resources, New Delhi
54	Soil Survey & Land Use Planning, Nagpur, Maharashtra
Project Directorate	
55	Maize, New Delhi
56	Seed, Mau Nath Bhanjan, Uttar Pradesh
57	Wheat, Karnal, Haryana
58	Biological Control, Bengaluru, Karnataka
59	Animal Disease Monitoring and Surveillance, Bengaluru
60	Cropping Systems, Meerut, Uttar Pradesh
61	Cattle, Meerut, Uttar Pradesh
62	Foot and Mouth Disease, Mukteshwar, Uttarakhand
63	Poultry, Hyderabad, Andhra Pradesh
64	Oilseeds, Hyderabad, Andhra Pradesh
65	Rice, Hyderabad, Andhra Pradesh
66	Information and Publications, Pusa, New Delhi
National Research Centre	
67	Agricultural Economics and Policy, New Delhi
68	Integrated Pest Management, New Delhi
69	Plant Biotechnology, New Delhi
70	Agroforestry, Jhansi, Uttar Pradesh
71	Banana, Thiruchirappalli, Tamil Nadu
72	Cashew, Dakshina Kannada, Karnataka
73	Soybean, Indore, Madhya Pradesh
74	Citrus, Nagpur, Maharashtra
75	Equines, Hisar, Haryana
76	Grapes, Pune, Maharashtra
77	Onion and Garlic, Pune, Maharashtra
78	Groundnut, Junagarh, Gujarat
79	Litchi, Muzaffarpur, Bihar
80	Medicinal and Aromatic Plants, Anand, Gujarat
81	Mushroom, Solan, Himachal Pradesh
82	Oilpalm, West Godavari, Andhra Pradesh
83	Orchids, Gangtok, Sikkim
84	Sorghum, Hyderabad, Andhra Pradesh
85	Meat, Hyderabad, Andhra Pradesh
86	Weed Science, Jabalpur, Madhya Pradesh
87	Women in Agriculture, Bhubaneswar, Orissa
88	Water Technology Center for Eastern Region, Bhubaneswar, Orissa
89	Camel, Bikaner, Rajasthan
90	Mithun, Dimapur, Nagaland
91	Pig, Guwahati, Assam
92	Pomegranate, Solapur, Maharashtra
93	Rapeseed-Mustard, Bharatpur, Rajasthan
94	Seed Spices, Ajmer, Rajasthan
95	Cold Water Fisheries, Bhimtal, Uttarakhand
96	Yak, West Kameng, Arunachal Pradesh

KNOWLEDGE SHARING



New Initiatives

- ▣ Centralized, Secure Datacenter
- ▣ National Agriculture Bioinformatics Grid
- ▣ E-connectivity to Farm Science Centers (KVK).
- ▣ Mobile based advisory system
- ▣ Mobilizing mass-media support
- ▣ e-Courses
- ▣ Consortium for e-Resources in Agriculture
- ▣ National knowledge network
- ▣ Introduced uniform e-mail ID tptrivedi@icar.org



Agroweb - Digital Dissemination System

www.icar.org.in



The screenshot displays the ICAR website's Agroweb interface. At the top, the ICAR logo and name are visible. Below the header, a navigation menu includes Home, Speeches, Circulars, Tenders, Events, Innovations, Publications, Contact us, Search, Webmail, and Downloads. The main content area features a featured article titled "First Embryo Transfer Mithun Calf (Bharat)" with a photograph of a mithun calf. To the left, there are sections for "ICAR at a Glance" and "Divisions". To the right, there are sections for "Languages", "News", and "Quick links". A "Press Releases" section is also visible at the bottom of the main content area.

Indian Council of Agricultural Research

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ICAR at a Glance

- About us
- Vision 2030
- AICRPs & Network Projects
- Research Institutes
- Zonal Project Directorates
- Krishi Vigyan Kendras
- Commercialisation of Technology
- Awards Received by ICAR
- ICAR Awards 2011
- Our Partners

Divisions

- Crop Sciences
- Horticulture
- Natural Resource Management
- Agricultural Engineering
- Animal Science
- Fisheries
- Agricultural Education
- Agricultural Extension
- Knowledge Management
- Administration
- Finance

Important Links

- CSICAR
- International Agricultural Organizations
- The Agriculture Centre
- Agricultural Scientists Recruitment Board
- Right to Information Act
- National Agricultural Innovation Project
- National Fund for BSFARA

First Embryo Transfer Mithun Calf (Bharat)

World's first ever mithun calf through embryo transfer technology was born at the National Research Centre on Mithun, Jharnapani, Nagaland on March 27, 2012. Embryo transfer technology (ETT) being one of the best tools for faster multiplication of quality germplasm, the scientists were working to standardize the techniques for mithun since last five years. Mithun (*Bos frontalis*), a rare bovine of South-east Asia is mainly confined in four different States viz., Arunachal Pradesh, Nagaland, Manipur and Mizoram of North-eastern Hill region of India. Presently, the free range system of mithun rearing in its natural habitat (forest) results in inbreeding as well as crossbreeding with the local cattle thereby loss of quality mithun germplasm. To address the issue of inbreeding and crossbreeding, the scientists of Animal Physiology section of the institute have successfully applied the Artificial Insemination (AI) technique both at farm and the field (Khonoma village of Nagaland) and produced AI-borne calves.

News and Highlights

- Top 10 downloaded Articles of Indian Journal of Agricultural Sciences and Indian Journal of Animal Sciences (March 2012)
- Four New Krishi Vigyan Kendras in Odisha, Rajasthan and Andhra Pradesh
- Orientation Programme for African Students Organised
- CIFA Hosts National Conference on 'Aquaculture: Fish for Billion'
- Showcasing of Agricultural Technologies and Media Meet Inaugurated at Thawar village, Mal, Lucknow

Press Releases | **Success Stories** | **Events** | **Recent Publications**

- IWMI office in India celebrates as Institute wins 'world's most prestigious prize' for water
- Landmark conference on regional roadmap for control of Foot-and-Mouth Disease concludes
- Second International Conference & 'APCHNE-2012' Inaugurated
- The President of India's inaugural address on the occasion of International Conference on 9th November 2011
- Union Cabinet Approves Establishment of Borlaug Institute for South Asia (BISA) with Centres in Punjab, Bihar and MP

Languages

- English
- हिन्दी

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News

Four New Krishi Vigyan Kendras in Odisha, Rajasthan and Andhra Pradesh

AIEEA-UG/PG-2012-13

Quick links

- AIEEA-UG/PG-2012-13
- Weather Based Agro Advisory
- Agricultural Universities
- Employment
- Scholarships & Fellowships
- Examinations/Results
- Guidelines / Circulars / Notifications of Education Division
- Results-Framework Documents
- The Draft Delegation of Powers in ICAR for comments
- Guidelines for Uniformity in Contents of Websites of all the ICAR Institutes
- GPF Status for HQ employees



2.5 million visits per year
Google Pagerank 7/10

Hits from top countries United States, United Kingdom, Australia, Germany, Philippines, China



Indian Council of Agricultural Research



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- ▶ Animal Science
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- National Agricultural Innovation Project
- National Fund for BSFARA
- AgriCat

Production of Quality Seedlings Lead to Prestige and Prosperity

Quality seedlings are essential for good growth and performance of vegetable crops. Hence, the practice of seedling production is emerging as a profession and commercial activity. During the past, as most of the vegetable varieties were open pollinated, farmers produced the seedlings at a relatively low cost by preparing their own nursery beds. However, due to increase in demand for seeds of hybrid varieties which cost much more than the open pollinated varieties, many progressive farmers and agriculture entrepreneurs have taken –up the production of quality seedlings using seedling trays as a commercial activity.



One of such enterprising farmers, Mr. Prakash was cultivating finger millets, paddy, marigold and vegetables on 2.5 acres of ancestral land. His crops were plagued with diseases and low yield. Then, he approached Indian Institute of Horticultural Research, Bangalore to find out the solution to his problems and overcome the poverty of his family.

[Read more ...](#)

News and Highlights

- Emeritus Scientist Awardees 2012
- List of Summer/Winter Schools approved by ICAR to be organized during the year 2012-13 in ICAR- AU System
- Top 10 downloaded Articles of Indian Journal of Agricultural Sciences and Indian Journal of Animal Sciences (March 2012)
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[Read more](#)

Press Releases Success Stories Events Recent Publications

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Video Gallery	News Paper Clipping	Virtual Tour Museum	Photo Gallery
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News

Emeritus Scientist Awardees 2012

List of Summer/Winter Schools approved by ICAR to be organized during the year 2012-13 in ICAR.

Quick links

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An online Journal publishing system for open Access Journals in Indian Council of Agricultural Research



The Indian Journal of Agricultural Sciences

A journal devoted to experimental agriculture and abstracted by all the major abstracting services. It includes articles on cytology, genetics, breeding, agronomy, soil science, horticulture, water use, microbiology, plant diseases and pest, agricultural engineering, economics and statistics with emphasis on original articles, from India and countries having similar agricultural conditions.

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The Indian Journal of Animal Sciences

This journal caters to a wide clientele comprising veterinarians, researchers and students. Articles are included on animal breeding and genetics, immunology, biotechnology, diseases, medicine and pharmacology, anatomy and histology, surgery, pathology, physiology, nutrition, milk, meat and other animal products, housing and fisheries from India and internationally.

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Indian Journal of Fisheries

The Indian Journal of Fisheries is published quarterly by the Indian Council of Agricultural Research (ICAR). Original contributions in the field of fish and fisheries science will be considered for publication in the Journal. The material submitted must be unpublished and not under consideration for publication elsewhere.

Papers based on research which kills or damages any species, regarded as threatened/ endangered as per IUCN criteria or is as such listed in the Red Data Book appropriate to the geographic area concerned, will not be accepted by the Journal, unless the work has clear conservation objectives

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Fishery Technology

The journal publishes original peer reviewed research papers and reviews on fishery technology and peripheral areas. It is managed and published by Society of Fisheries Technologists (India) located at Central Institute of Fisheries Technology, Matsyapuri P.O., Cochin-682 029, Kerala, India. Papers of bonafide members of the Society of Fisheries technologists (India) only are published in the journal, except invited review articles. The Society of Fisheries Technologists (India) has instituted the Best Paper Award for the best scientific paper appearing in the journal every year. The Award carries a citation and a cash component of Rs. 5000/-

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CeRA: Consortium for e-Resources in Agriculture

- Connected Institutes & Agricultural Universities – 142
- Number of Journals subscribed: 1687
- Total visits to CeRA website : 2.5 Million
- Total view of full text article: 3.5 Million

Schematic Functioning



Mobilizing Mass Media Support for Sharing Agro-Information

- Around **3100 news clippings** appeared in national (English, Hindi) and regional print media(Punjabi, Malayalam, Kannada)
- Approximately **890 Media persons** participated in Media Meets/ Interactions/ visits expanding the coverage of ICAR technologies and strengthening the media relations
- Facilitated around **620 TV/ Radio programmes** at national and regional level including radio serial on post-harvest technology
- Around **463 news and success stories** posted on ICAR website from across the country and through coverage of national ICAR events
- Around **6700 farmers/entrepreneurs** received first hand information through showcasing of technologies
- **90 Video Films** and Audio Capsules produced for dissemination
- **120 Scientists** received training on creative agricultural communication (IIMC, New Delhi/ knowledge management in agriculture (IIM Lucknow)





THANKS