

Intellectual Property and Technology Management

- Protecting innovations: Filed 45 patent applications at Indian Patent Office (IPO), generated by 23 institutes.
- Ten copyright and twelve trademark applications filed for products and processes.
- 56 varieties (51 extant and 5 new) granted registration certificates, raising the cumulative figure of registered varieties to 756.
- 25 Agri-business Incubation (ABI) centers established in various institutes.

Reaching out to Farmers

- Safeguarding soil health: 1.62 lakh Soil Health Cards distributed to farmers through 599 KVKs.
- Production of over 12500 tonnes of breeder and other seeds of new varieties and establishment of additional 97 seed hubs for pulses and oilseeds.
- Dedicated KVK Portal launched with user interface to enable monitoring and management of KVKs.
- Thirty four new KVKs were established taking the total to 676 in the country.
- Organized 4.69 lakh extension programmes, involving 198.67 lakh participants, creating awareness among farmers.
- Organized 1.13 lakh & 76 thousand demonstrations respectively, promoting cultivation of pulses & oilseeds through KVKs.
- Nation wide campaign for Pradhan Mantri Fasal Bima Yojana at 525 KVKs.
- Mobile advisory provided for timely and need based information to the farming community through 557 KVKs.
- Technology week, organized by KVKs benefiting 20.60 lakh farmers, farm women, extension personnel, rural youth and members of self-help groups.



- Declared 15 October as Mahila Kisan Diwas to appreciate the role of women in agriculture.
- Mera Gaon Mera Gaurav: Adopted over 13,500 villages across the country, benefitting about 3.5 lakh farmers.
- Launched new initiative "Pandit Deen Dayal Upadhyay Unnat Krishi Shiksha Yojana" for training of farmers in organic farming and sustainable farming.
- Encouraging small and marginal farmers through Pt. Deen Dayal Antyodaya Krishi Puruskar.
- Launched KVK Portal, KVK App, Kisan Mobile Advisory-KMA SMS portal, KRISHI-ICAR data portal and mobile apps: PusaKrishi, RiceXpert and Chana Mitra and more.....



Personnel Reforms

- Personnel Information Management System (PIMS): An electronic platform created.
- Posting and Transfer System (PATS): An electronic platform for posting and transfer created.
- Reforms in score card to redefine criteria for senior research management positions in ICAR.
- Portals for e-governance created.
- 18 schemes brought under Direct Benefit Transfer (DBT)
- Ease of business: Procurement through Govt-e-Market (GeM) & cashless transaction

Active participant in "Swachh Bharat Mission"



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INDIAN COUNCIL OF AGRICULTURAL RESEARCH

89th Foundation Day

16 July 2017

Major Milestones 2016-17

Highest ever food grain production of 274 mt in 2016-17, with wheat (97mt), pulses (22.4 mt), *kharif* (135 mt) and horticultural production of 290 mt.

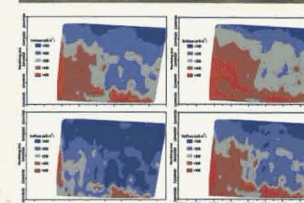


Headway in New Technologies/IT

- Record number of 310 new field crop varieties released, of which 155 cereals, 43 pulses, 50 oilseeds, 33 fibre crops, and 9 of sugarcane and 51 new varieties of horticultural crops have been notified.
- First Canola-type Indian mustard variety, Pusa Double Zero Mustard 31 (PDZ-1), with less than 2% erucic acid in oil and less than 30 ppm glucosinolates in seed-meal released.
- Developed technology for rapid detection of Tobacco Streak Virus (TSV) on cotton and soybean.
- IPM module developed for the management of root grubs in arecanut gardens.
- 53 new farm implements and 15 new farm technologies developed for small and marginal farmers.
- Mridaparikshak: Upgraded soil test to measure all parameters in soil health card.
- Developed "Rapo-compost technology" for rapid decomposition of biomass.
- Three new vaccines and 15 diagnostic kits developed, assuring better livestock health management; and forecasting disease outbreaks.
- Buffalo cloning reached farmers' field with the birth of cloned calf, Hisar-Gaurav.
- Commercialized drug formulations, Diarrionex-HS.
- Registered nine new breeds of livestock and poultry taking the total number of registered breeds to 160.
- Developed breeding and seed production technologies for the marine food fish *Lethrinus lentjan* and ornamental fishes *Marcia anthias*, *Pseudanthias marcia* and *Rhynchocinetes durbanensis*.
- Developed anti-obesity nutraceutical, (Cadamin™ Ace) product from seaweeds.
- Developed Vanami ShrimpApp to provide information on better management practices of Pacific white shrimp, *Penaeus vannamei* farming.



- Developed a Gender Knowledge Portal (<http://icar-ciwa.org.in/gks/>) for empowering farm women and girls.
- Launched ICAR Research Data Repository for Knowledge Management in Agriculture "KRISHI" (Knowledge Based Resources Information Systems Hub for Innovations) portal (<http://www.krishi.icar.gov.in>).
- Developed salinity and sodicity mapping of canal commands, using geophysical survey technology (DUALEM-21) for improved management strategies.
- To promote digital agriculture, mobile app for rice (riceXpert) and a web-based application, Pulse Expert developed.



Enriching Higher Agricultural Education

- In the memory of Dr. Rajendra Prasad, declared 3rd December as the National Agricultural Education Day, creating awareness about higher agricultural education among school students.
- The Rajendra Agricultural University upgraded to Dr Rajendra Prasad Central Agricultural University.
- Four new colleges opened under Rani Laxmibai Central Agricultural University, Jhansi.
- Opened 6 new colleges under Central Agricultural University, Imphal raising the total number of its constituent colleges from 7 to 13.
- Attracting Talent: Enhanced National Talent Scholarships and its introduction in PG.
- Quality assurance of higher agricultural education: Revision of course curricula for UG programmes making them more robust by Fifth Deans Committee.
- Accredited 59 agricultural universities.
- Completed ranking process of 57 agricultural universities.
- World bank and Government of India sponsored National Agriculture Higher Education Project (NAHEP) approved.
- Declaration of UG degrees in Agriculture and allied subjects as professional degree courses.



Linkages and Global Outreach

- Linkages with other scientific organizations such as CSIR, ICMR, DST, DRDO, ISRO, IMD etc.
- Assistance in establishing Afghanistan National Agricultural Sciences and Technological University and an Advanced Agricultural Research Centre in Myanmar.
- MoU signed among BRICS nations to establish a BRICS Research Platform for Agriculture with its coordinating centre in India.
- Strengthened agricultural research through international collaborations with ICRISAT, IRRI, ICARDA, IFPRI, Bioversity International and some foreign Universities.

Building Confidence and Skill

- Agri-entrepreneurship: 25 agribusiness incubators for development of entrepreneurship and value chains.
- Skill Development: 100 KVKs identified for skill development in collaboration with Agriculture Skill Council of India.
- Youth Talent: Implemented ARYA project in 25 states to train 5,000 youth in entrepreneurial activities through KVKs.
- 'Village Incubation Centre for Value Addition of Tuber Crops' in North Eastern Hill (NEH) Regions initiated in Manipur.
- Student "Rural Entrepreneurship and Awareness Development Yojana" (READY) implemented: Over 11,000 UG student benefitted through Hands-on-Experience

