



हर कदम, हर डगर
किसानों का हमसफर
भारतीय कृषि अनुसंधान परिषद

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Report on Management of Krishi Vigyan Kendras submitted

New Delhi, 20 December 2013. The ICAR has constituted a High Power Committee on 'Management of Krishi Vigyan Kendras' for suggesting mea-



sures to improve relevance, efficiency and guidelines for implementation of policies pertaining to Krishi Vigyan Kendras. The Committee has made recommendations on Mandate and Domain of activities; Establishment and Infrastructure; Co-ordination, Implementation and Monitoring; Convergence and Linkage; Administrative Guidelines; Financial Management and Visibility of KVK System. Dr R.S. Paroda (Chairman, High Power Committee on Management of Krishi Vigyan Kendra) presented a report on 'Management of Krishi Vigyan Kendras' to Union Minister of Agriculture and Food Processing Industries, Shri Sharad Pawar. The Indian Council of Agricultural Research has established 636 Krishi Vigyan Kendras in 4 decades of successful journey to build a strong network in almost all districts in the country.

GIS and climate analogue tools for PGR Management and enhanced use

Delhi, 6 December 2013. With the aim to impart contemporary knowledge on GIS, climate data, climate analogues and their applications in Plant Genetic Resources (PGR) management and utilization along with hands-on experience on various software, databases, clustering and analyses, the National Bureau of Plant Genetic Resources (NBPGR) organized a five-day Regional training workshop on 'GIS and climate analogue tools for the PGR Management and enhanced use' under the aegis of CCAFS and in collaboration with Bioversity International at NBPGR from 2 to 6 December 2013. The Workshop was inaugurated by Dr J.S. Chauhan (Assistant Director General, Seed) on 2 December 2013. He stressed upon the need for employing GIS tools for searching the suitable germplasm in climate change scenario. Dr K.C. Bansal (Director, NBPGR) focused upon the making the most of all modern tools and technologies including GIS for preparedness.

Dr P.N. Mathur (Regional Director, Bioversity International) highlighted the collaborative programmes taken up by Bioversity International and NBPGR in the field of identifying pre-adapted germplasm for climate change. The participants included researchers from India (ICAR/SAU) and neighbouring countries of the South-East Asia engaged in PGR management and interested in employing climate analogue tools. Ten Indian participants and four from abroad (Vietnam, Laos and Cambodia) participated in the workshop.

Shri Sharad Pawar visits Directorate of Medicinal and Aromatic Plants Research

Anand, 21 December 2013. The Union Minister of Agriculture and Food Processing Industries, Shri Sharad Pawar, interacted with the scientists and farmers at the Directorate of Medicinal and Aromatic Plants Research (DMAPR). He inspected Herbal Garden, maintained at the DMAPR, Botanical Garden, and Field Gene Bank at Lambhvel Farm. He showed keen interest in life saving plants being used in various Indian Systems of Medicine (ISM).

Dr Satyabrata Maiti (Director, DMAPR) made a presentation on 'Country Status Report on Medicinal and Aromatic Plants: India'.

26th Foundation Day of CIRB, Nabha campus,

Nabha, 2 December 2013. The sub-campus of Central Institute of Research on Buffaloes is dedicated for conservation and improve-ment of Nili Ravi breed of buffaloes. On 26th



Foundation Day this Sub-campus organized 'Nili Ravi Buffalo Mela' in which buffalo farmers, breeders and the dairy entrepreneurs from adjoining areas of Punjab and Haryana participated, and showcased their pride possession of Nili Ravi germplasm. The participating animals were adjudged under three categories: heifers, milch buffaloes and breeding bulls to decide the champion animals in each category. Dr K.M.L. Pathak (DDG, Animal Sciences) highlighted the importance of indigenous breeds of livestock, lauded Punjab farmers for their enormous contributions towards food and nutritional security through high-tech agricultural and livestock farming. He added that the Nili Ravi buffalo is native to Punjab and plays a significant role in fulfilling the requirement of milk and dairy products in the region. He appreciated CIRB for establishing strong linkages with the farmers and providing scientific inputs for efficient buffalo production and breeding. Dr Pathak further suggested for greater incentives to farmers contributing to Nili Ravi germplasm conservation and improvement. The most coveted award was the overall Nili Ravi Champion of the Show.

XVII National Conference of Agricultural Research Statisticians

Karnal, 28 November 2013. Two days Conference of the ICAR institutes, Project Directorates and agricultural universities in the country was inaugurated by Dr R.S. Paroda (Chairman, Trust for Advancement of Agricultural Sciences) on 27 November 2013 at Indian Agricultural Statistics

Research Institute, Pusa. He emphasized that value addition to the data should be considered on priority by the agricultural statisticians and scientists. He added that Statistics can play vital role in addressing the issues like Climate Change and Natural Calamities. The agricultural scientists should have two-fold endeavours, i.e., research as well as service to society. He advised the scientists that the research should be institute- and national need-based rather than scientist-based, so that its benefits can reach the society at large. The statisticians can certainly help in achieving this goal by developing effective 'Decision Support Systems' for equipping the stakeholders with intelligent information to enable them to make informed-decisions.



Eco-friendly Adda leaf plates and cups as an enterprise

'Adda leaf plate making unit' was introduced at Devarapalli, a tribal village of Maredumilli mandal under DBT funded project entitled 'Nutritional Security of Tribals of East Godavari District through Community-based Approach' sponsored by the Department of Bio-technology, New Delhi (2012-2015) for the benefit of Self-Help Groups (SHG). Agro-eco system analysis through PRA techniques was carried out for resource availability.



In the survey, it was identified that lot of minor forest products viz., adda leaf (*Bauhinia vahlii*), amla (*Embolica officinalis*), gum karaya (*Sterculia urens*), karakkaya (*Terminalia chebula*), tamarind (*Tamarindus indica*), mushini seed (*Strychnos nux-vomica*), black cashew (*Semecarpus anacardium*), honey, hill brooms etc. are abundantly available in the surrounding forest area of Devarapalli village. During off season, the tribal women stitch the adda leaves together to form leaf plates with the help of small minute sticks. Value addition was done to the products by stitching the leaves with the help of sewing machines and making the leaves into gorgeous plates with the help of advanced machinery. Five different types of units, viz. adda leaf plate unit, cup making unit, buffet plates unit, tiffin plate making unit with necessary machinery was established with the help of the project for increasing the work efficiency, reducing the time consumption and drudgery and adding value to the finished products.

Through this activity, 20 tribal women are making about 20,000 buffet plates, 10,000 meal plates and 10,000 cups per day. During this year, as a year of start, an additional family income of ₹8000/- p.m/ group (four members) is obtained by selling these plates and cups to the A.P. Tourism Department, Maredumilli. The tribal women supplying these adda leaf plates and cups to restaurants, hotels at tourism spots. By utilizing the agricultural by-products, it helps conserving the forest fauna and flora, and reduces the usage of plastics.

Glimpses of ICAR Achievements in 2013

Front Science and Technology

- Blast resistance gene Pi 54 incorporated into major rice varieties viz. 'Pusa Basmati 1', 'Swarna', and 'BPT 3204'.

- First supercomputing hub (ASHOKA) was established to provide access to biological computing resources.
- World's first test tube yak (Nargyal) was born.
- First cloned calf (Purnima) was born from an adult buffalo for multiplication of elite animals.

Productivity Enhancement

- Released over 104 new improved varieties/hybrids of major agricultural horticultural crops for different agro-climatic regions.
- Produced over 11,835 tonnes of breeder seed; 14,984 tonnes of foundation seed; 22,281 tonnes of certified seed; 14, tonnes of truthfully labeled seed; and 5,237 tonnes of quality planting material of different crops.

Climate Resilience and Natural Resource Management

- Demonstrated climate resilient technologies in 100 most-vulnerable districts under National Initiative on Climate Resilient Agriculture.

Mechanization and Value Addition

- Designed a multi-millet thresher having 95% efficiency that reduces drudgery and minimizes post-harvest losses; machines for roasting and popping of *makhana*; and extraction of pulp from custard apple.

Reaching out to Farmers

- Integrated farm interventions in Bali Islands of Sunderbans, West Bengal.
- Approved five new Krishi Vigyan Kendras: three in Jammu and Kashmir, and one each in West Bengal, and Arunachal Pradesh, raising the number of Krishi Vigyan Kendras to 636 in India.

IP Portfolio and Knowledge Management

- Commercialized 82 technologies/products; transferred 58 technologies to private entrepreneurs.
- Adopted Open Access Policy for free on-line sharing of knowledge resources.
- The ICAR literature is consulted in 206 foreign countries through www.icar.org.in/epubs
- The *Handbooks of Animal Sciences* and *Handbook of Agricultural Engineering* were published.

HRD and Capacity Building

- Provided on-line access for over 3,000 scholarly journals to 142 NARS institutions through CeRA Consortium.
- Foundation Stone laid for the First College of Agriculture at Pasighat, Arunachal Pradesh under Central Agricultural University.

Partnership and Linkages

- First exchange visit of ASEAN and Indian farmers under the ASEAN-India Co-operation.
- Established 91 public-private partnerships in over 200 sub-projects under NAIP.

Awards and Recognitions

- DARE and ICAR recognized as one of the first departments with ISO 9001-2008 organization certification for Quality Management System.

Way Forward

- Formulated operational guidelines for the new programmes, Consortia Research Platforms, External Funding and Performance Indicators of Institutes.

ICAR Mail wishes

HAPPY NEW YEAR 2014