



# Central Institute of Post Harvest Engineering & Technology Ludhiana

Our Slogan: Produce, Process and Prosper

CIPHET E - Newsletter for September-October, 2012  
Vol. 7 No. 9-10

## Director's Column



Dear All

An interface meeting on 'Milk Quality Assurance and Dairy based Health Foods' was organized.

Dr. R.K. Gupta, Head, FG&OP Division participated in ASEAN - India workshop/ Technology Mission on Functional Food at Bangkok, Thailand.

To promote the national language, CIPHET celebrated Hindi fortnightly celebrations.

I heartily congratulate Dr. S.N. Jha for getting the recognition award of National Academy of Agricultural Sciences (NAAS) of the biennium 2011-12 in the area of Agricultural Engineering & Technology for his outstanding work in Non Destructive Evaluation of Food Quality and Improved Design of Evaporative Cooled Storage Structures.

National Farm Innovators Meet was organized to provide a common platform to innovative farmers who have developed technologies at their own level.

Various training programs on post harvest technology for farmers across the country were also organized.

With best regards,

U. S. Shivhare  
Director

## **In this Issue**

**Interface Meeting With NDRI, Karnal and Punjab Halwai Association**

**Participation in ASEAN Meeting at Bangkok**

**Hindi Pakhwara Celebrated**

**NAAS Recognition Award for biennium 2011-12**

**Farm Innovators Meet Organized**

**Training programs conducted**

**Participation in Kisan Mela**

**Publication of the Month**

**Technology of the Month**

**Transfer/ Promotions**

## **Interface Meeting With NDRI, Karnal and Punjab Halwai Association**

One day interface meeting on 'Milk Quality Assurance and Dairy Based Health Foods' was organized on October 3, 2012 jointly by NDRI, Karnal; CIPHET, Ludhiana and Punjab Halwai Association. The objective of this interface was to increase the awareness among sweet-makers to improve quality by adopting latest technologies developed by various institutes of ICAR. The programme was organized in association with National Agricultural Innovation Project (NAIP). On the occasion, Scientists of NDRI created awareness among sweet-makers about various kits for detection of adulterants in milk. Dr A.K Srivastava, Director, NDRI apprised the audience that NDRI has developed number of low calorie products, which could generate high demand from health conscious consumers. During the meeting, fast, cheap and convenient methods for detection of adulterants in milk, food safety norms, shelf life extension of *Khoya*, safe storage and transportation of milk were major areas of focus. Dr U.S Shivhare, Director, CIPHET said that sweet makers should focus on maintaining quality and adopt latest technologies developed by the ICAR institutes. Mr. Narinder Pal Singh, President, Punjab Halwai Association said that they have no system to detect adulterants. He expressed the desire to collaborate with CIPHET for establishing laboratory for food safety. Scientists from GADVASU, Ludhiana were also present during this programme.



## **Participation in ASEAN Meeting at Bangkok**

Dr. R.K. Gupta, Head, FG&OP Division participated in ASEAN-India workshop/Technology Mission on Functional Food at Bangkok, Thailand during September 6-7, 2012. The mission of the meeting was to provide a platform for interaction and exchange of ideas among participants from India and ASEAN member states working in the fields of research and development, industry and academic on functional foods as well as to increase the potential of collaboration between institutes and countries in the future in research and development of functional foods. The event was organized by Tamil Nadu Technology Development and Promotion Centre in cooperation with Thailand Institute of Scientific and Technological Research, Bangkok. The workshop



was sponsored by International & Regional Cooperation Division, Department of Science and Technology, GOI, New Delhi. The workshop consisted of five technical sessions namely collaborative R&D in functional foods, food safety & regulatory affairs in functional foods, training program/short courses, Bilateral workshop/Symposia/ Conferences and ASEAN-India call for proposal in Functional Foods. Field visits to Ampol Food Processing Limited, Bangkok and Thailand Institute of Scientific and Technological Research, Bangkok were also organized.

## **Hindi Pakhwara Celebrated**

To promote the national language, CIPHET celebrated Hindi fortnightly celebrations during September 14-28, 2012. Prof. Rajinder Jain, Head, Hindi Department, Government College for Boys, Ludhiana was the chief guest. He said that many developed countries in the world are giving preference to their own language. One should be proud of the national heritage. We must make every effort to protect and promote our language. Dr. U.S Shivhare, Director, CIPHET said that scientists should make effort to do maximum publications in Hindi. Dr D. R. Rai, Head, Transfer of Technology Division said that on September 14, 1949, Hindi was declared the official language of the Indian union. He said that by organizing various programmes, they have made an attempt to inculcate national pride in staff for use of Hindi.

## **NAAS Recognition Award for Biennium 2011-12**

Dr. S.N. Jha, Head, AS & EC Division has been selected for the recognition award of National Academy of Agricultural Sciences (NAAS) of the biennium 2011-12 in the area of Agricultural Engineering & Technology for his outstanding work in Non Destructive Evaluation of Food Quality and Improved Design of Evaporative Cooled Storage Structures. The award consists of Rs.50,000/- cash prize, a gold medal and a citation. It will be presented jointly with Dr. K.K. Singh, ADG (PE) ICAR, during February 7-9, 2013 in XI<sup>th</sup> Agricultural Science Congress to be held at Odisha University of Agriculture and Technology, Bhubaneswar.

## **Farm Innovators Meet Organized**

CIPHET organized second National Farm Innovators Meet on 31<sup>st</sup> October, 2012. About 50 farmers across the country showcased their technologies. The aim of the meet was to provide platform to innovative farmers who have developed technologies at their own level and scientists were expected to give their technical inputs for further refinement of the technology. Prof V.K Sehgal of Punjab Agricultural University graced the occasion as chief guest. He said that if scientists and farmers innovate together; progress in agriculture could go manifolds. As production has already increased many times in past few decades and reached the stage of nearly plateau, farmers need to go for processing and value addition for increasing their income. He suggested that farmers could play role in checking post harvest losses and crores of rupees could be saved. Dr U.S Shivhare, Director, CIPHET said that attempt has been made to provide platform to farmers through this meet so that they get better technical inputs from the scientists and this will also help them to propagate their technologies to other parts of the country. He apprised that idea of this meet was originally conceived by Dr S. Ayappan, Director General, ICAR who wished to provide national platform to innovative farmers. The event was marked with presentations from innovative farmers during technical sessions and feedback. Technologies like husk based steam engine



developed by Mr. Nand Lal Vishwakarma, a farmer from Bihar; Eco-friendly sprayer by Mr. Sagar Rawale from Gujarat and portable water irrigation system by Mr. Prince from Damla, Yamunanagar attracted the audience. An exhibition was also organized on sidelines of this function.

## Training programs conducted

- Aiming to increase the income of farmers through value addition, five days training program on Post Harvest Technologies for Rural Catchments was organized during September 11- 15, 2012 for 22 farmers from Nagpur, Maharashtra.

- Training programme on Post Harvest Technologies for Rural Catchment for the farmers from Ahmednagar, Maharashtra was organized during September 17-21, 2012. Sixteen farmers participated in training programme sponsored by ATMA, Ahmednagar. The five day programme consisted of practical trainings, lectures and field visit to impart trainees comprehensive skills and knowledge regarding latest trends in food processing industry. The training included product development and processing of oilseeds, value added products from beet root crops, agro processing technologies, marketing of agricultural produce, value addition technology for soybean and evaporative cooled structure, dehydration of ginger & garlic, production of green chilli powder & puree, shed house technology and preparation of cattle feed pellets from potato waste.



- A five-day training programme on post harvest technologies for rural catchments was conducted for 13 farmers from Katol, Maharashtra during September 24-28, 2012. The training was sponsored by ATMA, Katol, Maharashtra. The training programme included millet processing, value added products from beet root crops, vegetable puree production, agro-processing technologies from All India Coordinated Research Project (AICRP) on PHT, value addition technology for soybean and EC Room, ginger and garlic dehydration, marketing of agriculture produce. Besides, lecture on production of green chilli powder and puree, preparation of cattle food pellets from potato waste, minimal processing and modified atmosphere packaging of vegetables were also covered.



- A total of 14 participants from Nagaland underwent training on Post-Harvest Technologies for Rural Catchment at CIPHET, Ludhiana during October 8-10, 2012. As Nagaland has difficulty of small landholdings and uneven terrain, here farmers' income could be increased by value addition through adoption of processing technologies and growing high value cash crops. The training included lectures and training on value addition technologies in horticulture, minimal processing and modified atmosphere packaging, low cost storage of horticulture produce, green chilli powder and puree and value added products from fruits.



- A five-day training programme on post harvest technologies for rural catchments was organized by CIPHET during October 10-14, 2012 for 10 farmers from Punjab. It was sponsored by NABARD under FTTF fund. The training programme included technologies from All India Coordinated Research Project on post harvest sector, value added products from beet root crops, marketing of agriculture produce, production of green chilli powder and puree, ginger, garlic and onion dehydration technologies, modified atmosphere packaging of fruits and vegetables, value addition technology for soybean and evaporative cooled structure for fruits and vegetables, preparation of cattle feed pellets from potato waste, etc.



- Training on groundnut processing sponsored by the Reviving Green Revolution (RGR) Cell of Sir Ratan Tata Trust, was conducted at CIPHET during October 15-16, 2012. Around 20 farmers from Punjab underwent training programme, which provided hands-on-training for processing technologies of groundnut milk, curd and paneer. During inaugural, Dr. U. S. Shivhare, Director, CIPHET said that by using value addition technologies, groundnut producing farmers could increase their income manifolds. Products like milk, curd and paneer of high nutritious value and oil could be produced from groundnut. Dr G.S Chahal, Executive Director, Reviving Green Revolution (RGS) Cell of Sir Ratan Tata Trust said that need of the hour is to provide farmers viable alternative to wheat-paddy cycle. The cell is also forming marketing groups of farmers to help them sell their crops.

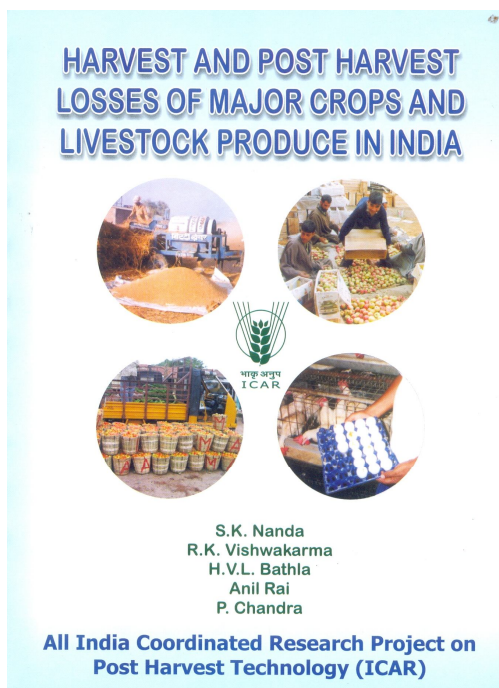


## Participation in Kisan Mela

CIPHET attended and participated in kisan mela organized at PAU, Ludhiana during September 21-22, 2012. The major attraction at the institute stall was technology for bottling of sugarcane juice. This process technology has been standardized under the All India Coordinated Research Project (AICRP) on Post Harvest Technology. The bottled sugarcane juice could be preserved for four months and its acceptability level is as high as 98 percent. A farmer from Jalandhar said that sugarcane juice bottling technology could be especially useful for farmers of Punjab. Other attractions for the farmers were mechanical pomegranate aril extractor, low cost evaporative cooled room operating without electricity. CIPHET also displayed processes and technologies of minimal processing of fruits and vegetables, makhana kheer mix, guava bars, low cost extruded products, pearl millet upma dry mix, banana comb cutter, green chilli powder, etc. A large number of farmers visited the CIPHET stall. Literature of various technologies developed by CIPHET for developing viable business opportunities was also distributed to farmers on the occasion.



## Publication of the Month



The report on “*Harvest and Post Harvest Losses of Major Crops and Livestock Produce in India*”, a comprehensive study undertaken by AICRP on PHT, has been published after getting permission to use data by the Hon. Speaker, Lok Sabha. It contains estimate of quantitative losses in harvest and postharvest (i.e., on-farm operations and storage channels) for 46 major agricultural commodities (food grains, horticultural crops and livestock produce), based on data collected from 12000 respondents in 106 districts of India distributed over 14 Agro-Climatic Zones. The data were collected through enquiry as well as by observation and analyzed in collaboration with IASRI, New Delhi. The results indicate appreciable reduction in losses than what is generally believed, giving credence to the scientific community for their contribution in developing improved post harvest equipment and technology and also to various agencies involved

in supply chain management (starting from farmers to the consumers). The report is expected to help research workers, policy makers and other stake holders in discerning the critical unit operations resulting in high post harvest losses and adopt suitable remedial intervention towards reduction of such losses.

## Transfer/ Promotions

- Dr. D.D. Nangare was transferred from CIPHET, Abohar to National Institute of Abiotic Stress Management (NIASM), Baramati, Pune (MS).
- Sh. Lakhwinder Singh (Fitter) was promoted to T-3 w.e.f. 19.06.12.
- Sh. Bhajan Singh (Fitter) was promoted to T-3 w.e.f. 15.07.12.
- Sh. Jaswant Singh (Welder) was promoted to T-3 w.e.f. 30.07.12.

### For Further Details Contact:

Dr. U.S. Shivhare, Director or  
Dr. M.R. Manikantan, Sr. Scientist  
Dr. Indu Karki, Scientist  
Central Institute of Post Harvest Engineering & Technology  
Ludhiana, 141004 (Pb.)  
Phone: 91-161-2308669, 2305674, 2313119; Fax: 91-161-2308670  
Email: [ciphet@sify.com](mailto:ciphet@sify.com); Web Page: <http://www.ciphet.in>