Central Institute of Post Harvest Engineering & Technology Ludhiana

OUR SLOGAN: PRODUCE, PROCESS AND PROSPER

CIPHET E - Newsletter for May, 2012
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Director's Column

Dear All

A two-week training programme for ASEAN member states on production and processing technology for value addition of horticultural products was held.

Nigerian delegates visited the institute to learn about the developed technologies and also to find collaborative means to achieve excellence.

QRT review meeting (AICRP on PHT) was held at OUAT, PHT centre Bhubaneswar and the progress and constraints during XI Plan of three co-operating centres, viz. Anakapalle, Baptala and Bhubaneswar were reviewd.

For the demonstration of black plastic mulching, a farmer participatory field day programme was organised under AICRP on APA by CIPHET, Abohar at Monsoon harvest farm, Balluana, Abohar.

On behalf of CIPHET family, I welcome Sh. Rajkumar, Senior Administrative Officer on his joining at CIPHET, Ludhiana.

I also wish good luck to Sh. K. S. Chauhan, Administrative Officer and Dr. Manjunatha M, Scientist on their transfer from CIPHET, Ludhiana.

With best regards

U. S. Shivhare
Director

In this Issue

International Training Programme For ASEAN States

A two-week training programme for ASEAN member states on Production and Processing Technology for Value Addition of Horticultural Products was held from 30th April to 12th May 2012. Six participants from ASEAN member countries including Indonesia, Thailand, Vietnam, Malaysia, Cambodia and Philippines attended the programme. Dr. R.K. Gupta was Course Director and Er. R.K. Vishwakarma was Co-Course Director for the programme.

Notably, CIPHET is a nodal institute for lead research and providing consultancy in the area of Postharvest Engineering and Technology appropriate to the agricultural and food processing industries, for setting up pilot plants, industrial liaison, technology transfer, national and international cooperation.

Participants visited vegetables production under polyhouse at Field Fresh Foods, Ludhiana

The training module covered major topics including advances in cultivation of important vegetables, poly house design and construction for production of off season vegetables, nursery operations and orchard management, high density plantation and canopy management of fruit crops. Several other areas were covered during the training such as improvement of post harvest quality of horticultural produce using bio-technological tools, harvesting and grading of fruits and vegetables, post harvest diseases and disorders of fruits and their control, Controlled atmosphere packaging (CAP), Modified atmosphere packaging (MAP) and storage of fruits and vegetables, cold chain management of horticultural crop produce, storage of fruits and vegetables, low cost storage structures design, minimal processing of fruits and vegetables, processing and value addition

of fruits, non-chemical, non-thermal processing of fruits and horticultural waste utilization for production of value added products. Besides, training module also included visits to fruits and vegetables handling and processing industries, research laboratories and departments.

Nigerian Delegation Visited CIPHET For Collaborative Areas

Nigerian delegates visited the institute on May 23, 2012. Dr Orif. Mathew O. Abatan, Acting Director, Department of Life and Earth Science, University of Ibadan, Nigeria said India is a lead partner in agricultural research with west African nations and CIPHET could play a significant role in development of post harvest sector.

He was accompanied by Prof. Ayo Arowojolu and Mr. Michal Alastise. Dr Orif. Mathew said that sustainability of agriculture production was a big challenge in west African nations and we can learn a lot from each other's experiences and find collaborative means to achieve excellence. He was quite impressed with research initiatives taken at the CIPHET in the area of post harvest. Dr U.S Shivhare, Director, CIPHET said that we would be happy to provide help to the Ibadan university and African nations by all feasible means. He informed that CIPHET had done significant research in the post harvest sector and could contribute for development of this sector in the West African region.

Dr H. S. Gaur, Joint Director Education, Indian Agricultural Research Institute, who was accompanying the delegation, said that India could specifically help in development of laboratories and training faculty in the agriculture institutes of western African countries. Saying that Nigeria and India shares lot of similarities in socio-economic conditions, Dr. Gaur said that cooperation between two sides could bring synergy. On the occasion, a film on research activities of CIPHET was also screened for the delegates.

CIPHET Conducted Training On Soybean Processing

For encouraging self employment, Central Institute of Post Engineering and Technology (CIPHET) conducted two-day training programme on soybean processing during May 24-25, 2012. Eight participants from varied professions including farmers, entrepreneurs, traders and employees took part in the training programme. Head, Transfer of Technology (TOT) Division Dr D. R. Rai said that ICAR is committed for generating self employment among youth. Soybean processing could provide handsome business opportunity for farmers and due to high demand from consumers; soy products have become popular now.

QRT Meeting (AICRP on PHT)

QRT (AICRP on PHT) review meeting was held at OUAT, PHT centre Bhubaneswar during May 17-19, 2012 and the progress and constraints during XI Plan of three co-operating centres, viz. Anakapalle, Baptala and Bhubaneswar, were reviewd. QRT members along with the OUAT staff met Dr. D.P.Ray, Vice-Chancellor of OUAT and also the representative of an NGO named 'Vasundhra' involved in processing and selling of *mahua* based products. The following QRT

QRT (PHT) review meeting at OUAT, Bhubaneshwar

members reviewed the progress: Dr. R.P Kachru, Chairman, Dr. B. Ranganna, Member and Dr. J. Sahoo, Member. Dr. D.N. Yadav, Secretary, QRT noted the comments and recommendation of the QRT. Dr. S.K. Nanda, PC (AICRP on PHT) briefed about the overall performance of centres. Sectoral PI (Jaggery and Khandsari) Dr. Jaswant Singh also attended the meeting.

Farmers' Field Day Programme

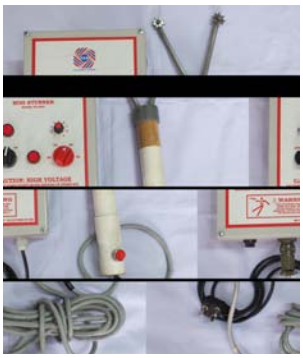
A farmer participatory field day programme was organised at Monsoon harvest farm, Dhani Thakur Singh, Balluana on May 16, 2012 for the demonstration of black plastic mulching, under AICRP on APA. Progressive farmer, Sh. Pretendra Singh Aulakh and other neighbouring farmers participated & learnt strategies of protected cultivation, plastic mulching and drip irrigation for weed control, soil moisture conservation and disease management etc. in fruits and vegetables. Dr. D.D. Nangare, Scientist & I/C APA suggested the feasibilities of drip irrigation for soil salinity management and also preventing water logging in these areas. Sh. V.S. Meena, Scientist discussed about horticultural, agronomic and storage aspects of kinnow and other fruits. Dr. Jitendra Singh, Sr. Scientist emphasized on IPM strategies to pest and disease management in kinnow and guava orchards and he also advised to use black plastic mulch for the weed and soil borne disease management in vegetables.

Transfer/Joining

- Sh. Rajkumar, Senior Administrative Officer joined CIPHET, Ludhiana from IARI, New Delhi on 17-05-2012.
- Sh. K. S. Chauhan, Administrative Officer transferred from CIPHET, Ludhiana to IARI, New Delhi on 16-05-2012.
- Dr. Manjunatha M, Scientist (AS&PE) transferred from CIPHET, Ludhiana to NDRI, Bangalore on 26-05-2012.

Technology of the Month

Electric stunner



Electric stunning is an effective method to induce instantaneous insensibility. To meet humane animal treatment regulations, an electric stunner is developed to stun the pig/sheep. The stunner has been designed for head only stunning. The stunner is able to pass sufficient amperage (current) through the animal's brain to induce an epileptic seizure. A timer is provided to stun animal for particular time. When electrodes with spurs are in contact with animal, an electrical current is passed for particular time (1-9 seconds). This unit has a transformer attached to convert the input current to high voltage current in the range of 300-600V. Two electrodes with spurs are fixed in insulated rod and assembled with hollow PVC tube to get proper insulation and rigidity. It has been tested on pig and found effective to stun the animal for 20 seconds.

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