

*Circular*

# **NATIONAL SEMINAR**

On

## ***Emerging Problems of Potato***

November 1-2, 2014

At

**Central Potato Research Institute, Shimla**

*Organized by*

**Central Potato Research Institute, Shimla**

and

**Indian Potato Association, Shimla**



Potato is a major food crop of the world. Although a crop native to cooler region, its adaptation from temperate to the sub-tropical world has driven its potential as a cheap and plentiful food crop that grows in a wide range of agro-climates. The ability of potato to produce highest nutrition and dry matter on per unit area and time basis, among major food crops, led the United Nations to officially declare 2008 as the *International Year of the Potato* to address future global food security and poverty alleviation, calling potato a "hidden treasure".

Potato is the third most important non-cereal food crop of the world, after rice and wheat, with a global production of 365 million tonnes (MT). Globally India stands third in terms of area under potato but with a production of 45 MT, it is the second largest producer of potato after China. Though, potato yield has been erratic across the world during the past decade (16.3 to 18.9 t/ha during 2000-12), Indian-potato productivity (23.6 t/ha) is above the world average (19.2 t/ha). In India, potato is the predominantly consumed as vegetable. At present, roughly two-thirds of the domestic supply of potatoes is consumed as fresh and hardly 7.5% is consumed in processed form. A considerable amount of potato is wasted due to post-harvest losses (16%). The "CPRI Vision 2050" has projected a domestic demand of potatoes in India to 125 MT in 2050, which is roughly three times of the current production. Demand for processing quality potatoes will increase from current level of 2.7 MT to 25 MT, whereas the demand for potato seed will grow nearly 2.1 time by the year 2050. So, to achieve these production targets, country must raise its productivity to a level of 34.5 t/ha and area to 3.62 million ha.

Under the present scenario of climate change, productivity of potato in India is likely to be affected negatively. Crop modelling research has shown that the problem of bacterial wilt, late blight, viruses, vectors (aphids and white flies), potato tuber moth and rising night temperature & fog will aggravate under the regime of climate change. Besides, non-availability of healthy and quality seeds for potato production, abiotic and biotic stresses and evolution of new strains of pathogens or their resistance against pesticides are expected to pose serious most constraints for the future growth of potato in India. Non-availability of additional agricultural area, small land holdings, rising input costs and shortage of farm labour are also posing very serious short-term challenges for potato cultivation in India. Moreover, high post-harvest losses, lack of state of the art

transport infrastructure facility and shortage of cold storage capacity have negatively affected potato growth of the country. Food and nutritional security through potato is likely to gain much higher importance in the near future as medium and long term challenges. Increasing production potential of potato under the era of enhanced biotic and abiotic stresses under climate change scenario is a complicated challenge before us in the long term. Besides, agricultural labour would be a scarce commodity in future primarily due to faster economic growth of the country. Emphasis is required on designing and development of implements and machines for small and marginal farmers, combine harvesting and grading systems/machines, and implements for potato production. Dissemination of refined potato technologies to a very large number of small and marginal farmers in India is another challenge of its own type in India.

To meet these challenges, technological interventions through application of new science in the fields of bio-technology, nanotechnology, genomics, diagnostics, precision farming, aeroponics, ICT, GIS and remote sensing are needed to be addressed. The potato processing sector is emerging as a fast growing industry in the country with more entrepreneurs joining and existing ones increasing the capacity of their processing units. It is necessary to step up effort to cater to this fast emerging sector. Potato research in India has so far revolved around the farmers only. Technology stakes for potato are undergoing a radical transformation. Thus the technology development and commercialization require considering all the stakeholders of the supply chain *i.e.* producers, service providers, processors and consumers.

In this context, it is proposed to hold a two days National Seminar on 1<sup>st</sup> and 2<sup>nd</sup> November 2014 at Central Potato Research Institute, Shimla to address the emerging problems of potato. The focus of the Seminar will be to deliberate on the issues and challenges ahead to enhance the production of potato in India. The target groups for the seminar are farmers, researchers, academicians, service providers, entrepreneurs and other stakeholders involved in the production and utilization of potato.

#### **THEME**

**Emerging problems of potato – Reviewing threats and devising strategies**





## **DATE AND VENUE**

The Seminar is scheduled to be held at Central Potato Research Institute, Shimla during 1-2 November, 2014.

## **CALL FOR INVITED LECTURES AND ABSTRACTS**

**Invited lectures:** Eminent speakers of National/International repute will make their presentation on various sub-themes of the Seminar. The Lead Papers are invited from eminent workers, who will present a comprehensive review on present status and new advances in potato under different sub-themes.

**Abstract/Poster papers:** Researchers of related disciplines are invited to participate and submit their abstract in the seminar. The contributed article will be considered for poster presentation related to the theme of the session on a given date and time. Abstracts should not be more than 250 words and submit latest by 30 September 2014 through email at [rkrana2004@yahoo.com](mailto:rkrana2004@yahoo.com). Poster size should be 60 cm x 90 cm.

Lead papers/contributed papers and abstract will be published in Souvenir and Book of Abstracts, respectively.

## **ABOUT THE ORGANISERS**

The Seminar is being jointly organised by the Central Potato Research Institute and the Indian Potato Association, Shimla.

### **CPRI**

Central Potato Research Institute is actively involved in research and development in potato crop. The institute is located in the heart of beautiful city of Shimla, the capital of Himachal Pradesh (31.61°N, 77.10°E at an altitude of 2000 m). It is situated near Bemloe, 4 km from old Shimla bus stand, 6 km each from new Shimla bus stand and Railway Station. The weather at Shimla during the month of October will be little cool with mean temperature ranging from 15-20° C. The institute has 5.2 ha of area for research and development. The major thrust areas at of the institute are potato improvement, plant protection, potato processing, post-harvest technology, and agronomical research including cropping systems, nutrient and water management, and seed production through tissue culture and aeroponics.

### **IPA**

Established in 1974 with some scientists working in the field of potato research, the Indian Potato Association has grown several folds since then. It organizes periodical conferences, symposia, workshops, meetings, seminars etc and also publishes books, reports, summaries of papers and other forms of technical literature for the benefit of its members. The headquarters of the Association is located at Shimla. Potato Journal is the official organ of the Association which brings out the new findings and research related to potato crop. The present strength of the association is about 1000 which includes life and annual members, both from India and abroad. The association has so far organized two international conferences and several national seminars/symposia/panel discussions etc to provide platform to all stakeholders for setting the research priorities.

## **ANNUAL GENERAL BODY MEETING**

Annual General Body Meeting of the IPA will be held in the afternoon of 2<sup>nd</sup> November 2014. Resolutions if any, may be submitted to the Secretary, IPA latest by 30<sup>th</sup> September 2014.

## **ACCOMMODATION**

Accommodation of the participants will be organized in hotels and guest houses on payment basis. The average rate of hotels (medium class) ranges from Rs. 2000 to 5000 day for single bed. Accommodation may be booked in the hotel on request. However one day advance will be required to book the hotel in this case.

## **REGISTRATION FEES AND MODE OF PAYMENT**

All participants are requested to register for the Seminar by paying a Registration Fee, as detailed below by 30<sup>th</sup> September 2014. Additional Fee of ₹. 1000/- will be charged for late registration Fees. However, inclusion of Abstracts in the Book of Abstracts cannot be guaranteed in case of late registration. The registration fee in the form of account payee demand draft/multi city cheque drawn in favour of 'Indian Potato Association' payable at Shimla along with the registration form is to be sent so as to reach the Secretary, Indian Potato Association on or before 30<sup>th</sup> September 2014.

<b>Category</b>	<b>Registration Fees (₹)</b>
IPA Member	3000/-
Non Member	4000/-
Students/RA/SRF etc	2000/-
IPA Farmer Member	2000/-
Non Farmer Member	3000/-
Late fee for all categories	+1000/-

## **EXHIBITION**

A national level exhibition will also be organized during this seminar. Since, a large number of delegates from different potato R&D organization will be participating in this function, so prospective exhibitors are invited to display and showcase their technologies and products related to potato through stall. Stall charges for a size of 3X3 m2 area will be ₹ 15000/- (₹ fifteen thousand only). The amount may be paid through Demand Draft in favour of Indian Potato Association payable at Shimla.

## **IMPORTANT DATES**

Last date for submission of abstract	: September 30, 2014
Last date for registration with normal fee	: October 15, 2014
Date of Seminar	: November 1-2, 2014

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## **ADDRESS FOR CORRESPONDANCE**

**Dr. Bir Pal Singh**

Chairman and Director

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**Dr. NK Pandey**

Organizing Secretary

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**National Seminar**  
**On**  
**Emerging Problems in Potato**  
**1 -2 November 2014**

**Chief Patron** S. Ayyappan  
**Patron** NK Krishna Kumar

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	Sachid Madan
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	KS Baswana
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	SH Khan

<b>Organizing Secretary</b>	NK Pandey
<b>Conveners</b>	VK Dua
	Brajesh Singh



## Registration Form

### **National Seminar on Emerging Problems of Potato**

1-2 November, 2014

Central Potato Research Institute, Shimla – 171 001 (HP)

1. Full name :-----
2. Designation :-----
3. Organization :-----
4. Mailing address :-----
5. Mobile No. :-----
6. Email: :-----
7. Title of the paper :-----  
:-----
8. Sub-theme :-----
9. Registration Fee particulars:  
    Demand Draft/Multi-City  
    Cheque No. & Date :-----  
    Amount (₹) :-----  
    Payable at : Shimla  
    Name of the bank :-----  
    In favour of :Indian Potato Association

**Date**

**Signature**

**Please mail this form along with D/D to:**

Dr NK Pandey  
Organising Secretary  
Division of Social Sciences  
Central Potato Research Institute  
Shimla – 171 001 (HP)

Registration form may also be emailed to: [nkpcpri@gmail.com](mailto:nkpcpri@gmail.com)