



NATIONAL SEMINAR ON **STRENGTHENING of SEED SYSTEMS in the NORTH EASTERN AND UNREACHED REGIONS - Problems, Prospects and Policies**

February 3-5, 2019
at Jubilee Hall, RIMS, Imphal, Manipur

ORGANISED BY
Indian Society of Seed Technology

In Collaboration With
**ICAR RESEARCH COMPLEX FOR NEH REGION, MANIPUR CENTRE, IMPHAL
&
CENTRAL AGRICULTURAL UNIVERSITY, IMPHAL**

SPONSORED BY



North Eastern Council, MoDONER
Government of India



Deptt. of Agriculture, Cooperation &
Farmers Welfare, MoAFW, Govt. of India



Indian Council of Agricultural
Research, New Delhi



राष्ट्रीय बागवानी बोर्ड
National Horticulture Board
Government of India



Manipur Organic Mission Agency
Imphal



National Bank for Agriculture &
Rural Development, Manipur RO



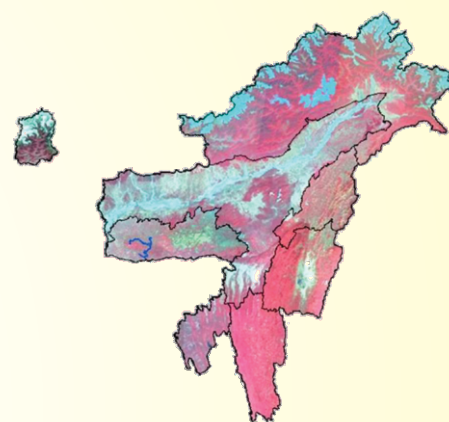


ABOUT THE ISST

Indian Society of Seed Technology (ISST) was formed and formally inaugurated by Shri Fakhruddin Ali Ahmed, the then Union Minister of Agriculture, Govt. of India on 21st April, 1971. The primary objective of ISST is to serve as a forum for the Seed Scientists and Technologists of the country to share their experiences and disseminate the knowledge relating to production, certification, testing, processing, storage and marketing of seed. For meeting the objectives, the society till now has organised one International and fourteen national seminars/ symposiums on various themes at different places throughout India.

GENESIS OF THE SEMINAR

A strong seed improvement programme can make agriculture more viable, profitable and sustainable. The need for conservation of germplasm for developing new and improved varieties is recognized and is expected to promote in future, to combat the impact of climate change resulting in adverse biotic and abiotic stresses. Starting with the establishment of the National Seeds Corporation in 1963, the seed sector in India has grown considerably in the last 50 years, with more than 500 big, medium and small seed companies and 17 State Seed Corporations.



However, the seed system could not grow as well in the North Eastern Region due to several factors; e.g. modest crop-wise seed requirements of each state to meet their own statutory requirements under Seeds Act; limited scope for seed production of many crops due to unsuitable agro-climate; infrastructural bottlenecks in transportation, warehousing and storage; limited choice of improved varieties due to varied adaptability; availability of skilled human resource; market preference and profitability. Many of the newly released varieties as well as those commonly marketed often are neither adapted to local climates nor preferred by the farmers and consumers of the region. Moreover, the dependence on seeds from outside could not fulfil the need even after so many years of trials due to one or other of above reasons. At the same time, the region has a great potential and need for organic seed production, provided necessary infrastructure, skill and capacity, certification system are built up. Hence, developing a strong seed system for the region as a whole, and identifying its niche areas are vital for improving farmers' profitability. This necessitates to bring together, the seed scientists, extension personnel, policy makers and seed industry leaders of the country as well as farmers to discuss the new research leads, novel seed technologies, seed policies suitable for the regions, problems and opportunities in the domestic and export markets, IPR issues and trade rules to share and exchange new ideas. This will help to create opportunities for developing future research and development agenda on viable partnership platforms to provide technologies for welfare and economic prosperity of the farmers through seed-based interventions.





CHALLENGES OF SEED PRODUCTION IN NORTH EASTERN HILL REGION

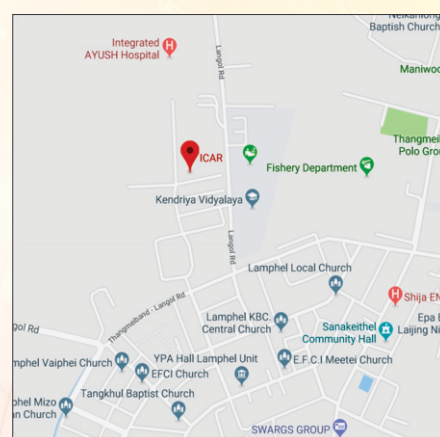
RICE DIVERSITY

MAJOR THEMATIC AREAS

1. Redefining the research needs in Seed Science, Technology and Policies
2. Exploring the potentials of Seed production of high value Vegetable & Horticultural crops and Medicinal plants
3. Knowledge and skill development needs in Seed Science and Technology
4. Conservation of Biodiversity, Crop Improvement and Plant Variety Protection
5. Role of public, private and informal sectors in Seed production and Supply Chain Management in NE and other Resilient Regions.
6. Identifying opportunities, problems and policy support for strengthening the Seed supply and Organic Seed Production and Certification Systems in NE and other Resilient Regions.

VENUE

ICAR Research Complex for NEH Region, Manipur Centre, Lamphelpat, Imphal, established by Dr. M.S. Swaminathan in 1975, adjoining the CAU, Imphal HQs. is one of the best centres of the Institute with five KVKs attached with it, and located in the Centre of Imphal City near the Central School, Imphal and Regional Institute of Medical Sciences, Imphal is well linked with air from Delhi, Guwahati and Kolkata. The venue is located within 10 km from Imphal Airport and is 3 km from AOC Bus stand. The nearest railway station is Dimapur in Nagaland, which is 208 kms from Imphal and connected through road buses/trippers (NH-39).



CLIMATE

Manipur is a sub Himalayan eastern most hilly state of India having a total geographical area of 22,327 square kilometres with about 90 per cent of the total area under hills with altitudes ranging from 790 m above msl at Imphal valley to peaks of Tenipu with 2,994 m above msl. The climate of Imphal is mild with a maximum of 34°C in May-June to the lowest of 0-4°C in December-January. The temperature in February would be pleasant with a minimum of 6-7.5°C during night and maximum of 27-29°C during daytime.



CALL FOR PAPERS

Interested participants involved in research in the field of seed science and technology, seed policy development, seed programme management, marketing, finance, variety development, conservation and protection; expert organizations and seed industry may submit conceptual, review, research and case study based concise abstracts of about 500 words to the Secretary, ISST (isstseminar.imphal@gmail.com) on or before 31 December, 2018. Abstracts must clearly indicate the main findings and conclusions. The abstracts would be evaluated by a Technical Committee for their suitability for oral/poster presentation. Those selected for oral presentations will be required to submit a soft copy of full-length paper in the format of the 'Seed Research' journal within 10 days of receiving the acceptance. Each session will begin with invited lead talks by eminent seed professionals, followed by a few oral presentations. **Not more than two abstracts/papers from each participant will be entertained. The text should be typed in single space and 12 Times New Roman font. On top of the abstract, clearly do mention the Theme to which the abstract/paper relates to, followed by title, author's name and affiliation. In the end, details like; Name of the corresponding author, Designation, Complete address, Phone, Fax and Email may kindly be provided. There will be one poster session exclusively for the students. Best oral presentation and three best posters will be awarded.**

REGISTRATION

Participants are requested to register for the seminar by paying a registration fee through Demand Draft/Pay Order/NEFT as per the bank details given below. Out station cheques will not be accepted. Registration form may be downloaded from <http://www.isst-india.com/>. Those registering on or before 31st December, 2018 will be entitled to early bird concession. Registration fee is non-refundable or non transferable against any other person(s). The registration fee should be sent either by Demand Draft to be issued in favour of **Indian Society of Seed Technology Imphal Chapter** payable at **Bank of Baroda, Imphal branch** or through NEFT to **Indian Society of Seed Technology Imphal Chapter (A/c No. : 10160100021279; Bank : Bank of Baroda, Imphal branch, Thangal Bazar; IFSC Code : BARB0IMPHAL)**.

Type of Delegate	Early Bird (Before 31.12.18)	Normal (After 31.12.18)
ISST Members	₹ 2500.00	₹ 3000.00
Non-Members	₹ 3000.00	₹ 3500.00
Students, Scholars and Farmers	₹ 1500.00	₹ 2000.00
Corporate and Industry Sector	₹ 6000.00	₹ 8000.00
Accompanying person(s)*	₹ 1500.00	₹ 1500.00

**Not entitled to registration kit and publications.*

ACCOMMODATION

Due to limited availability, the accommodation in University and other Institutes' Guest houses will be reserved for the confirmed delegates from SAUs and state departments on first-come first-serve basis. For others, booking in nearby hotels may be facilitated subject to payment of half tariff in advance. Kindly confirm your participation well in advance, mentioning the number of accompanying persons and mode of travel so as the necessary arrangements may be made at our end. The hotel rates are indicated in the registration form. The request for accommodation may be sent on or before 31st December, 2018 to Dr. I. Meghachandra Singh (email: meghais@rediffmail.com, Phone no.: 9436027223).



OTHER ATTRACTIONS

Manipur falls in the Indo-Burma Centre of "Biodiversity Hotspot" of global significance. The state is rich in anthropological, biological and cultural diversity. The state is birth place of 'Polo' and also known for its contribution to Indian sports. The state borders Myanmar with its capital Imphal, 110 km away from the border town, Moreh. One day trip would be arranged for the interested delegates on 6th February, 2019 on payment basis. Literally meaning "*The Jeweled Land*", Manipur is richly endowed with natural beauty and splendour. Home to Sangai (a rare species of brow-antlered deer) and the Shirui Lily (the only terrestrial lily grown on the hill tops of Shirui hills), Ethel St. Clair Grimwood described Manipur as '*A Pretty Place more beautiful than many show-places of the world*'. Decorated by innumerable beautiful flora and inhabited by a number of attractive fauna, Manipur shines with nature's grace.



LOKTAK LAKE



SHIRUI PEAK



SANGAI DEER



KANGLA FORT



IMA MARKET



INA MEMORIAL



MOREH TOWN



POLO GROUND

Historically, it is the place of great significance. The fiercest battle of Imphal of World War-II was fought here. A place called Moirang was the headquarters of Azad Hind Fauz. Colonel Shaukat Malik of the Indian National Army (INA) hoisted the tricolor for the first time on Indian soil on 14th April, 1944, in Moirang. Loktak Lake, the largest freshwater lake in Eastern India is a Ramsar site of importance, which attracts many migratory birds from as far as Siberia (Russia). The Keibul Lamjao National Park is the only floating park in the world, located in North East India, and an integral part of Loktak Lake.

Imphal is important tourist centre because it is a centre of cultural and commercial activities with two war cemeteries, which are maintained by the Commonwealth War Graves Commission, Kangle Fort, fascinating Ima Keithel - which is one of Asia's largest women market, Shri Govindaji Temple, ISKCON temple, Ruins of the Old Palace, Khonghampat Orchidarium, Manipur State Museum, RKCS Art Gallery and Zoological Garden, etc. Other outstation tourist attractions include Shirui Peak, Dzuko Valley, INA Museum, Kaina Tourist Home, Sendra Resort and Leimaram Waterfall.



ISKCON TEMPLE



MARTIAL ARTS



GOVINDAJI TEMPLE



RAAS LEELA DANCE

ORGANIZATION

PATRONS

Dr. R. S. Paroda, Chairperson, TAAS; Former Secretary, DARE & DG, ICAR, New Delhi

Dr. S. Ayyappan, Chancellor, Central Agricultural University, Imphal

Dr. R. B. Singh, Former Chancellor, Central Agricultural University, Imphal

CHAIRMAN

Dr. T. Mohapatra, Secretary, DARE & Director General, ICAR, New Delhi

CO-CHAIR

Dr. D. K. Yadava, ADG (Seed) & Head, DSST, ICAR-IARI, New Delhi

NATIONAL STEERING COMMITTEE

Dr. K. Alagusundaram DDG (NRM) ICAR, New Delhi	Dr. A. K. Singh DDG (Agri. Ext.), ICAR & Director, ICAR-IARI, New Delhi	Dr. A. K. Singh DDG (CS & HS) ICAR, New Delhi
Dr. Malavika Dadlani President, ISST New Delhi	Sh. Ashwani Kumar Joint Secretary (Seeds) Min. AC & FW, GOI	Dr. S. Rajendra Prasad Vice Chancellor, UAS, Bangalore & Former President, ISST
Dr. M. Bhaskaran Vice President, ISST & Vice Chancellor Tamil Nadu Open University, Chennai	Prof. M. Premjit Singh Vice Chancellor CAU, Imphal, Manipur	Dr. K. M. Bujarbaruah Vice Chancellor AAU, Jorhat, Assam
Dr. Balraj Singh Vice Chancellor, Agricultural University Jodhpur, Rajasthan	Dr. S. K. Rao Vice Chancellor, RVCKVV Gwalior, Madhya Pradesh	Dr. M. Mahadevappa Former Chairperson, ASRB Bengaluru
Dr. S. A. Patil Former Director, IARI & Former Chairman Farmers' Commission of Karnataka	Dr. H. S. Gupta Former Director ICAR-IARI, New Delhi	Mr. V. K. Gaur CMD, National Seeds Corporation New Delhi
Dr. S. Bhaskar ADG (AAF & CC) ICAR, New Delhi	Dr. Kuldeep Singh Director, ICAR-NBPGR New Delhi	Dr. Vilas A. Tonapi Director, ICAR-IIMR Hyderabad
Dr. N. Prakash Director, ICAR RC NEH Region Umiam (Barapani), Meghalaya	Dr. H. Pathak Director, ICAR-NRRI Cuttack, Orissa	Dr. S. Rakshit Director, ICAR-IIMR Ludhiana, Punjab
Prof. J. M. Laishram Dean, College of Agriculture CAU, Imphal	Dr. D. K. Agrawal Director, ICAR-IISS Mau, U.P.	Dr. J. K. Sharma Vice President, ISST & Dean (Agri), Baddi University, Solan, H.P.
Dr. B. K. Kandpal Joint Director, ICAR RC NEH Region Tripura Centre	Dr. R. K. Avasthe Joint Director i/c, ICAR RC NEH Region, Sikkim Centre	Dr. D. J. Rajkhowa Joint Director i/c, ICAR RC NEH Region Nagaland Centre
Dr. Sandeep Kumar Lal Member Secy. NSC Secretary, ISST & Principal Scientist DSST, ICAR-IARI, New Delhi	Dr. Zakir Hussain Treasurer, ISST & Principal Scientist Div. of Vegetable Science, ICAR-IARI, New Delhi	Dr. Dilip Kumar Srivastava Asstt. Comm. (QC), Min. AC & FW, GOI
Dr. H. Kalita Joint Director i/c, ICAR RC NEH Region Arunachal Pradesh Centre	Dr. I. Shakuntala Devi Joint Director i/c, ICAR RC NEH Region Mizoram Centre	Dr. Shiv K Yadav Chief Editor, ISST & Principal Scientist DSST, ICAR-IARI, New Delhi
Dr. B. S. Tomar Joint Secretary, ISST & Head Division of Vegetable Science, ICAR-IARI, New Delhi	Dr. Purna K. Barua Prof. & HoD, Seed Science and Technology AAU, Jorhat	Dr. I. Meghachandra Singh Organizing Secretary, Joint Director i/c, ICAR RC NEH Region Manipur Centre, Imphal

ORGANIZING COMMITTEE

Chairman	: Dr. N. Prakash
Convener & Member Secretary, NSC	: Dr. Sandeep Kumar Lal
Co-Convener	: Dr. Purna K. Barua
Organizing Secretary	: Dr. I. Meghachandra Singh

Members

Dr. C. A. Srinivasmurthy	Dr. R. K. Saha	Dr. S. B. Singh	Dr. K. P. Mohapatra
Prof. L. Nabachandra Singh	Prof. K. Momocha Singh	Prof. Ph. Sobita Devi	Dr. Ch. Basudha Devi
Dr. Subhra Saikat Roy	Dr. M. R. Shahoo	Dr. S.P. Das	Dr. Amit Kumar
Dr. M. A. Ansari	Prof. D. Shastri	Dr. Romila Akoijam	Dr. E. Lamalakshmi Devi
Dr. Kh. Rishikanta	Dr. Blessa Sailo	Mrs Aruna Beemrote	Dr. Konsam Sarika
Dr. Anup Das	Dr. Chongtham Sonia	Dr. Chongtham Tania	Dr. N. Lal
Dr. T. Basanta Singh	Dr. Deepak Singh	Dr. P. K. Saraswat	Dr. Y. Ramakrishna
Sh. N. Arunkumar Singh	Sh. Kh. Hera Singh	Sh. S. Gunamani Singh	Dr. Shusheel Kr. Sharma
Dr. Rame Gowda	Dr. Arvind Kapoor	Dr. Satish Kr. Yadav	Dr. Th. Robindro Singh
Dr. Kalyan Rao Patil	Dr. Sushil Pandey	Dr. N. Arati Devi	Dr. Sunil S. Mahajan



SPONSORSHIPS AND ADVERTISEMENTS

The seminar will be supported by contributions and grants from corporations, foundations and government agencies. A number of conference support levels and exhibitor opportunities are available for the seminar. Various types of sponsorships; Silver Sponsors (6 nos.), Golden Sponsors (4), Diamond Sponsors (2) and one Platinum Sponsor opportunities are available. The smaller companies or vendors may also avail the opportunity by advertising their firm and or products in seminar souvenir to reach to masses throughout the country. The details of sponsorships and advertisers are available on ISST website (<http://www.isst-india.com/>).

IMPORTANT DATES

Submission of Abstracts	: December 31, 2018
Acceptance of Abstracts & request for full length papers	: January 5, 2019
Early Bird Registration	: Up to December 31, 2018
Normal Registration	: After January 1, 2019

FOR FURTHER DETAILS, PLEASE CONTACT

Dr. Narendra Prakash

Chairman, Organizing Committee &
Director, ICAR Research Complex for NEH Region
Umiam, Meghalaya - 793103
Mobile: +91-9436894982
Email : nprakashicar@gmail.com

Dr. I. Meghachandra Singh

Organizing Secretary &
Joint Director i/c, ICAR Research Complex for NEH Region
Manipur Centre Lamphelpat, Imphal- 795004
Phone No.: 0385-2414749(O)
Mobile: +91-9436027223
Email : meghais@rediffmail.com

ADDRESS FOR CORRESPONDENCE & TECHNICAL INQUIRY

Dr. Sandeep Kumar Lal

Member Secretary, National Steering Committee &
Principal Scientist, Department of Seed Science & Technology
ICAR-Indian Agricultural Research Institute, New Delhi-110012
Ph. No.: 011-2841428 (O)
Mobile: +91-9811048932
Email : skl_nsp@yahoo.com

**National Seminar
on
Strengthening of Seed Systems in the North Eastern and
Unreached Regions - Problems, Prospects and Policies
February 3-5, 2019
Imphal, Manipur**

REGISTRATION FORM

Delegates' Category: Chair/Co-Chair/Rapporteur/Participant/Sponsor

1. Name (Ms./Mr./Dr.) :
2. Designation :
3. Organization (With full address) :
.....
4. Telephone : Fax :
Mobile : E-mail :
5. **Purpose of attending the seminar**
Paper Presentation: Yes/ No
Poster Presentation: Yes/ No
Participation: Yes/ No
- i. Date of arrival :
- ii. Expected time of arrival :
- iii. Number and names of accompanying persons :
- iv. Flight No./ by Road :
- v. Date of departure :
- vi. Expected time of departure :
- vii. Mode of departure :
- viii. Flight no./Bus :
6. Request for accommodation **
Single bedded accommodation : Hotel
Double Bedded accommodation : Hotel (Shared Occupancy)
Double Bedded accommodation : Guest House (Limited no.)
7. Details of registration fee paid or spot payment : Cash or DD (in favour of Organizing Secretary, ISST Imphal Chapter, payable at Imphal) or NEFT dated
DD/UTR No.:

Signature

Note:

Boarding and lodging charges will be charged as per the accommodation provided.

* Single bedded accommodation @ ₹ 2500 - 4000/- per day

** Double bedded Shared accommodation @ ₹ 3500 - 5000/- per day

*** Accommodation in Guest House on first - come first - serve basis.

To be mailed at meghais@rediffmail.com and isstseminar.imphal@gmail.com