



# NINFET Newsletter



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January - 2020 to June 2020

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## Editor-in-Chief

Dr N. C. Pan

## Editors

Dr. Sanjoy Debnath

Dr. Manik Bhowmick

Dr. Nageshkumar,T

## Photography

Sh. Kausik Mitra

## Printer

Semaphore Technologies Pvt Ltd.

Ph. +91 9836873211

## Director's Desk

Government of India is emphasizing on the "Doubling farmers' income" to make agriculture sector profitable and lucrative, while giving due importance to "Make in India", to promote village level yarn and handicraft making, mechanization of fibre extraction from natural fibre for income and employment generation. Moreover, government has taken some measures to minimize the use of plastic in packaging and more emphasis towards use of natural fibre-based material. In this regard, development of quality natural fibre, specially, lingo-cellulosic fibre for packaging and other value added diverse products needs to be escalated. ICAR-NINFET has been working tirelessly in this area for the cause of farmers and stakeholders since its inception.



In 2020, jute and other natural fibre production and post processing operations during March-April are affected by covid-19 pandemic. During this period, Institute has empowered different social groups through value addition of jute and other fibres. Institute has also conducted skill development training to farm women and other stakeholders to make diversified products and handicrafts to enhance the economic empowerment.

The Institute has also associated with other organization to arrange events for discussions on important issues related to farmers involved in natural fibre. During this period, institute has conducted 1 self-sponsored training programs; 05 training programs on Jute Handicrafts under ABI, 19 training programs on various topics & 2 workshops-cum-demonstration under SCSP, 1 MGMG program and participated 3 exhibitions for the benefit of natural fibres' stakeholders.

I also congratulate our staff member, Dr. L. K. Nayak, Principal Scientist for "Best marketable product display award" at "Social Entrepreneurs Meet" held at Tura, Meghalaya, organized by North Eastern Hill University (NEHU) in collaboration with ICAR-CTCRI, Thiruvananthapuram during March 5-6, 2020.

I am confident that our R&D efforts of the institute in line of RAC and IRC recommendations will lead towards inclusive growth of the stakeholders linked and will continue to support millions of farm families for their livelihood. It is my privilege to release the newsletter of our institute and I am appreciating the efforts taken by the editorial team for bringing this newsletter in time.

*Dr Nimai Chandra Pan*

**Director**

## Institutional Activities

### Celebration of Institute Foundation Day

The ICAR-National Institute of Natural Fibre Engineering and Technology, Kolkata celebrated its 82<sup>nd</sup> Foundation Day on 3<sup>rd</sup> January 2020. In this auspicious occasion, renowned Scientist and former Vice-Chancellor, Dr. Ranajit Kumar Samata graced the programme as Chief Speaker. Smt. Kamala Bisth, Under Secretary, Agriculture Engineering Division marked her presence as Guest of Honour from Indian Council of Agriculture Research Head Quarter, New Delhi in the programme.



### Institute Foundation Day Celebration

The foundation day programme was started with welcome address by Dr. N.C. Pan, Director of the Institute and told about importance of Natural fibre and the disadvantage of synthetic fibres. Dr. Samanta elaborated the role of Indian Scientists in development of Indian Agriculture. He also advised the all level of staff regarding improvement of output and work culture. Dr. Debanjan Sur, Chief Guest of the inaugural session, describe the role of ICAR-NINFET and its journey from JTRL to NINFET. The Guest of Honour, Smt. Kamala Bisth congratulated the institute staff for the great achievements of the Institute and its contribution to the farmers particularly in jute agriculture. The Chairman of the organizing committee, Dr. S.N. Chattopadhyay, Principal Scientist, presented the diary of events of the Institute for last one year and its total development. A large number of ex-employees, present employees and several dignitaries from nearby ICAR institutes, Jute Industries, incubates, small entrepreneurs and artisans were present in the programme. Dr. S. Debnath, Principal Scientist, proposed the formal vote of thanks.

### Celebration of the Constitution Day

A lecture on 'Important Constitutional Amendments & their significance' was organized at ICAR-NINFET, Kolkata on 28 January 2020 to celebrate the constitution day for the month of January. The Chief-guest and the main speaker of the programme was Dr. Prabhas Mandal, Assistant Professor, Day Section, Netaji Nagar Collage, Kolkata. Director,



ICAR-NINFET chaired the programme. He elaborated on the different chapters and amendments of the constitution of India. The event was a grand success and all staff members of ICAR-NINFET attended the lecture.



**Constitution Day Celebration**

Another lecture was arranged on ‘Constitution and citizen duties, Land Legislations and Reforms’ at the auditorium of ICAR-NINFET, Kolkata on 22nd February, 2020. The lecture along with PowerPoint presentation in trilingual (Hindi, English and Bengali) was delivered by Mr. Navin Kumar Jha, Senior Administrative Officer of ICAR-NINFET, Kolkata. He explained the constitutional rights and duties of the Indian citizens in detail.

## Organisation of Library workshop

A library workshop was organized by ICAR-NINFET, Kolkata on the theme, “Citation Index: An important tool for academic and research professionals” on 18.02.2020. Dr. Binod Bihari Das, Ex Chief Librarian, Jadavpur University, Kolkata graced the Chair as a Chief Guest. Dr. N. C. Ghosh, Chief Librarian of IIM, Joka, Kolkata presented a paper entitled “Application of bibliometric indicators for assessing scientific performance: citation analysis and beyond”. All staff members of ICAR-NINFET participated in the Workshop together with librarians from adjoining ICAR- Institutes, CSIR- Institutes, Colleges and Universities.



**Library workshop**



**Yoga practice by institute staff**

## Celebration of International Yoga Day

International Day of Yoga was observed by staff members of ICAR-NINFET, Kolkata on 21.06.2020. Due to the pandemic situation, the Yoga Day was observed in the morning by the staff along with their family members at their homes. They practiced different Asanas, Mudras and Meditations.

## Celebration of International Women’s Day

International Women’s Day was observed on 08.03.2020 to celebrate the power of women, their rights and role in our lives and society. To salute the outstanding contribution of women in every sphere, ICAR-NINFET has arranged a programme to showcase the achievements of women and to establish the need for empowerment for progress of human society.



### International Women's Day Celebration

ICAR-NINFET conducts various training programme on Jute Hand Bags/ Shopping Bags, Jute Handicrafts/Ornaments and Bleaching and Dyeing, etc., to develop entrepreneur from grass root level throughout the year. The main target groups are rural women of the SHGs or Mahila Mandals. Two lady entrepreneurs & trainers came to the programme on 07<sup>th</sup> March, 2020 and explained how the trainings have imparted a vast change in the livelihoods of poor women of rural areas. Also, a debate competition was arranged on “Women’s reservation in Society vs. Gender equality” (in English/Hindi/Bengali) for all staff members of the Institute.

### Swachhta Hi Sewa Pakhwada

ICAR-NINFET officials are conducting weekly sanitation and cleanliness drive every Wednesday to keep the institute neat and clean. On this occasion samplings were planted in the Institute garden on Environmental Day on 5<sup>th</sup> June 2020.

### XXIX Research Advisory Committee Meeting

The XXIX Research Advisory Committee Meeting of ICAR-NINFET, Kolkata was held on January 14, 2020. Prof. B.C. Mal, Vice-Chancellor of JIS University, Kolkata was the Chairman of this committee. The meeting was inaugurated with the Welcome speech of Dr. N.C. Pan, Director, ICAR-NINFET followed by Action Taken Report (ATR) of last RAC proceedings by Dr. S.N. Chattopadhyay, Principal Scientist & Member Secretary. Head of the Divisions of Quality Evaluation and Improvement (QEI) Division, Chemical and Bio-Chemical Processing Division (C&BP),



Cleaning Institute by staff members



XXIX Research Advisory Committee Meeting



Mechanical Processing Division (MP) and Transfer of Technology Division (ToT) presented the progress of their respective divisions. Dr. J. Mitra, Director, ICAR-CRIJAF, Barrackpore and Dr. G. Bose, Former Principal Scientist of this Institute, was present as special invitee. The programme ended with the vote of thanks by Dr. S.N. Chattopadhyay, Principal Scientist and Member Secretary.

## Institutional Research Council Meeting

NITI-VI Institute Research Council (IRC) Meeting was held on February 24-25, 2020. Dr. S. K. Biswas, Former Director, Directorate of Jute Development, Govt. of India; Shri A. K. Mukherjee, Managing Director, Velona Enterprises, Kolkata and Prof. Sunil Kumar Sett, Former Professor, DJFT, Calcutta University, Kolkata were the External Expert members of this meeting. Dr. N. C. Pan, Director (Acting) chaired the meeting and critically reviewed the progress of all research projects. All scientists and Technical staff of PME Cell were attended the meeting. During the meeting all new ad-hoc, on-going ad-doc and on-going research projects were critically reviewed. Expert members gave their suggestions and recommendations for further improvement.



**Institutional Research Council Meeting**

## 4<sup>th</sup> C.R. Nodder Memorial Lecture

The 4<sup>th</sup> C.R. Nodder Memorial Lecture was held in the memory of institute's first Director, Late Mr. C. R. Nodder on February 11, 2020 at ICAR-NINFET auditorium. Director ICAR- NINFET, DR. N.C. Pan welcomed all the dignitaries' and participants followed by Dr. brief presentation of life sketch of Late C.R. Nodder by Dr. Sengupta, Principal Scientist & Head MP Division. Prof. (Dr.) Sumanta Bhattacharyya, former Principal, Govt. College of Engineering and Textile Technology, Serampore, WB, and Prof. (Dr.) Atanu Ghosh of Shailesh J Mehta School of Management,



**4th C.R. Nodder Memorial Lecture**

I.I.T. Bombay, were present as chief guest and guest of honour of the programme, respectively. Dr. Avijit Das and Dr. Manik Bhowmick introduced the chief guest and the guest of honour respectively. Prof. Bhattacharyya during his deliberation talked about contribution of Late C.R. Nodder in jute and allied fibres. Prof. Ghosh presented the memorial lecture on “Challenges for the organizations in the Changing Paradigm”. The programme was concluded with the formal vote of thank by Dr. Sanjoy Debnath, Principle Scientist, ICAR-NINFET. There was large gathering from different jute and textile teaching and research institutes and other natural fibre related organisation including industries. Ex-scientist of ICAR-NINFET also participated in that occasion.

### Workshop on Technological Innovation under CRP

One day workshop on “Technological Innovation under the Consortia Research Platform on Natural Fibres” was organized at Institute Auditorium, ICAR-NINFET, Kolkata on 21.02.2020. In this occasion, Dr. P. Chakraborty, Director, ICAR-NRC on Yak, Dirang Arunachal Pradesh, and Dr. S.K. Roy, Principal Scientist, ICAR-ATARI, Kolkata, graced the Chairs as Chief Guest and Guest of Honours, respectively. Dr. N.C. Pan, Director, ICAR-NINFET welcomed all the delegates from Krishi Vigyan Kendras, Universities and Research Institutes and industries. In this occasion a book on ‘Technological Innovations under Consortia Research Platform on Natural Fibres’ was released by the dignitaries. Dr. S.N. Chattopadhyay, Co-Nodal Officer-CRP & Principal Scientist, ICAR-NINFET, Kolkata, highlighted the salient progresses made in technologies, machines and process protocols such as grading instruments for sisal, flax, ramie and multifibres, efficient fibre extractors, eco-friendly processing for lignocellulosic fibres, value chain for yak fibre and light weight jute based carry bag under the CRP on Natural fibres. Dr. A.S.M. Raja, Principal Scientist, ICAR-CIRCOT, Mumbai, Co-ordinator of Projects at Project Implementation Unit also presented the technologies developed under CRP on Natural fibre. In technical session, respective PIs of the five projects of ICAR-NINFET, Kolkata presented their output which was acclaimed by the house. In second session, all the technologies developed through Consortia Research Platform were exhibited and demonstrated. Dr. S. Debnath, Principal Scientist, ICAR-NINFET, Kolkata, offered the formal vote of thanks and total programme was coordinated by Dr. Deb Prasad Ray, Principal Scientist, ICAR-NINFET, Kolkata.



**One day workshop on “Technological Innovation under the Consortia Research Platform on Natural Fibres”**

### Activities of the Institute Technology Management Unit

ITMU of this institute is maintaining liaison between Patent Office, GOI, Patent attorney in the process of new patent filing and follow up old cases etc. During this period, ITMU conducted two ITMC meetings on dated 04.01.2020 & 29.06.2020 in the BPD hall of the institute.



**ITMC Meeting**



## Training programs under ABI

Name of training programme	Training venue	Duration	No. of participants
Manufacture of Handicrafts from Jute & Allied fibres	College of Community Science, Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar	February 11-19, 2020	20
Manufacture of jute Handicrafts	KVK Howrah, West Bengal	February 26 – March 6, 2020	40
Manufacture of jute Handicrafts	Dewanchak-II Gram Panchayat, Paschim Medinipur, West Bengal	March 12-21, 2020.	40
Manufacture of jute Handicrafts	KVK Howrah, West Bengal	March 12-21, 2020	40



### ABI sponsored training

### Organisation of Self-sponsored training programs:

A self-sponsored training programme on “Jute Hand/ Shopping Bags” for two weeks from January 13-25, 2020 have been organized at ICAR-NINFET, 12 Regent Park, Kolkata- 700 040 for sustainability of entrepreneurship development and self-employment generation. In the training programme eleven (15) persons were participated, among them 07 were female and 08 were male. In this training programme different types of Hand Bags, Shopping Bags, ladies purse, printed bags, water bottle bags, Laptop bags different types of folders etc. were fabricated from jute fabric by the participants.



### Self-sponsored training

## Mera Gaon Mera Gaurav programs

Under MGMG, Institute has adopted 25 villages at five different districts i.e. Howrah, Hooghly, 24 Parganas North, 24 Parganas South and Nadia to carry out the different demonstration and training programs on institute developed technologies. Each district has five different villages and respectively monitored by one coordinator for each district and the overall monitoring was done by Dr. Sanjoy Debnath, Nodal Officer. On 05.02.2020 scientists visited village Paltapara, Shyamnagar-II, District North 24 Parganas and discuss about the prospects of jute agrotextile mulch, training on jute handicrafts, training on jute carry bag, etc. aspects.



**MGMG programme at village Paltapara and field trial on jute mulch**

## Participation in Exhibitions

Program	Venue	Duration
Krishi Samriddhi Mela	RKM, Sargachi	10-13 January, 2020
Krishi Mela	College of Community Science, Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar	February 16-18, 2020
Krishi Mela	Mela Ground, IARI, New Delhi	March 1-3, 2020



### Exhibitions

## Programs under Scheduled Caste Sub-Plan (SCSP)

### One Day Workshop-cum-Demonstration on Jute Agrotextile Mulch

Two numbers of One-Day workshops on “Application of Jute Agro-textile Mulch and its Field Demonstration” held on 07.01.2020 at North 24 Parganas KVK, Ashoknagar, P.O. Haripur, 24 Parganas (North) and on 06.02.2020 at Sabuj Sathi farmers club, Beleswar, Basna, Balagarh, Hoogly, West Bengal organized under SCSP of ICAR-NINFET. Dr. S. Debnath, Principal Scientist delivered lecture on Benefits of Jute agrotextile mulch in cultivation of high value horticultural crops. Total fifty (50) progressive farmers have participated in each programme and each SC farmers have distributed 50 m<sup>2</sup> of jute agrotextile mulch for their usages.



**Demonstration on Jute Agro-textiles**



## Training programmes organized

Different skill development training programme under scheduled caste sub-plan (SCSP) have been organized successfully in different parts of West Bengal.

Name of training programme	Training venue	Duration	Participants
Manufacture of Jute Bags & Manufacture of Advanced Jute Handicrafts	Itahar, Uttar Dinajpur, West Bengal	January 13-24, 2020	20
Manufacture of Jute Bags	RKM, Sargachi, Murshidabad, West Bengal	January 16-25, 2020	20
Manufacture of Jute Handicrafts	KVK Nadia, Gayeshpur, Nadia, West Bengal	January 22 -February 05, 2020	40
Manufacture of Jute Handicrafts	Sabuj Sathi Farmers Club, Basana, Beleswar, Hooghly, West Bengal	January 26 -February 06, 2020	40
Manufacture of Jute Bags & Manufacture of Advanced Jute Handicrafts	Kaliyagunj, Uttardinajpur, W.B	February 3-14, 2020	40
Manufacture of Jute Jewellery & Manufacture of Advanced Jute Handicrafts	ICAR-NINFET, Kolkata	February 04-14, 2020	40
Manufacture of Jute Bags & Manufacture of Advanced Jute Handicrafts	Karandighi, Uttardinajpur, W.B	February 15-26, 2020	40
Manufacture of Jute Handicrafts	Dewanchak II Gram Panchayat, West Mednapur, W.B,	February 17-26, 2020	40
Manufacture of Jute Handicrafts	Dubra Gram Panchayat, Purba Bishnupur, Chakdaha, Nadia, W.B,	February 22- March 2, 2020	40
Manufacture of Jute Bags & Manufacture of Advanced Jute Handicrafts	Hemtabad, Uttardinajpur, W.B,	February 27- March 9, 2020	20



Training programme under SCSP



Training programme under SCSP

## In-house seminar

Date	Presenter	Topic
31.01.2020	Dr. L. Ammayappan, Principal Scientist, CBP Division	Physical modification of jute nonwoven fabric for improvement in mechanical properties of a biocomposite
15.02.2020	Dr. L. Ammayappan, Principal Scientist, CBP Division	Effect of Pre-treatments on Coating of Silver Nanoparticles on Jute Fibre

## Distinguished visitors

Date	Visitors
03.01.2020	Dr. Ranajit Kumar Samanta , Former Vice-Chancellor , BCKV Smt. Kamala Bisth, Under Secretary, Agriculture Engineering Division Dr. Debanjan Sur, Ex-Deputy Director, IJIRA
14.01.2020	Prof. B.C. Mal, Vice-Chancellor of JIS University, Kolkata Dr. Jeeban Mitra, Director, ICAR-CRIJAF, Barrackpore Shri Shiv Narayan Lahoti, Group President (Works), M/s The Empire Jute Co. Ltd., Kolkata Prof. Debabrata Chakrabarty, Ex-Head, Department of Polymer Science & Technology, University of Calcutta for Chemical
11.02.2020	Prof. (Dr.) Sumanta Bhattacharyya, Former Principal, Govt. College of Engineering and Textile Technology, Serampore Prof. (Dr.) Atanu Ghosh, Shailesh J Mehta School of Management, I.I.T. Bombay
18.02.2020	Dr. Binod Bihari Das, Ex Chief Librarian, Jadavpur University, Kolkata Dr. N. C. Ghosh, Chief Librarian of IIM, Kolkata Sh Jiban Krishna Pal, Scientific and technical professional, ISI, Kolkata
21.02.2020	Dr. P. Chakraborty, Director, ICAR-NRC Yak, Dirang Arunachal Pradesh Dr. S.K.Roy, Principal Scientist, ICAR-ATARI, Kolkata,
24 & 25.02.2020	Dr. S. K. Biswas, Former Director, Directorate of Jute Development Shri A. K. Mukherjee, Managing Director, Velona Enterprises, Kolkata Prof. Sunil Kumar Sett, Former Professor, DJFT, Calcutta University

## Hindi cell activities

Institute Hindi Cell organized following events to popularizing the Official Language Hindi

Event type	Date	Venue
Meetings	13/03/2020 and 11/05/2020	Director's room, ICAR-NINFET

## Hindi workshop

One day Hindi Workshop on the topic “Rajbhasha Hindi ka Karyanvayan” and “Computer per Hindi ke Takniki Samadhan” on 15/02/2020 and “Bharat Sarkar ki Rajbhasha Niti” and “Bhartiya Samvidhaan” on 02/06/2020 was organized in the Institute.





**Hindi workshop**

### Awards:

Dr. Lakshimikanth Nayak, Principal Scientist received an award for “Entrepreneurship development in natural fibre sector” and “Best marketable product display award” for exhibiting Pineapple Leaf Fibre (PALF) based value added products during “Social Entrepreneurs Meet” held at Tura, Meghalaya, organized by North Eastern Hill University (NEHU) in collaboration with ICAR-CTCRI, Thiruvananthapuram during March 5-6, 2020.

### Patents:

List of patents applied during January, 2020 to June, 2020 as mentioned

SL No.	Date of filing Application in Patent Office	Application Number allotted by Patent Office	Title	Inventors	R &D Areas
1.	27.01.2020	202031003645	Bleaching of jute using peracetic acid as bleaching agent	Dr. S. N. Chattopadhyay Dr. Nimai Chandra Pan Dr. Alok Nath Roy Dr. Kartick Samanta	Chemical processing
2.	18.02.2020	202031006996	System for measurement of drupe coefficient of flexible sheets.	Dr. Manik Bhowmick, Dr. Goutam Basu	Instrumentation

List of patent granted from January, 2020 to June, 2020

SL No.	Date of filing Application in Patent Office (complete)	Application Number allotted by Patent Office	Title	Inventors	Date of Patent grant	Additional Remarks
1.	13.03.2014	293/KOL/2014	A soil substituent for seed germination obtained of renewable natural fibre	Dr. S. Sengupta Dr. S. Debnath Dr. G. Basu	03.03.2020	Patent No-333780

SL No.	Date of filing Application in Patent Office (complete)	Application Number allotted by Patent Office	Title	Inventors	Date of Patent grant	Additional Remarks
2.	14.03.2011	330/KOL/2011	Method of chemical retting of coconut fibres and preparing yarns from said fibres.	Dr. Goutam Bose, Ms. Leena Mishra, Mr. Ritwik Chakroborty, Sk. Md. Jaheer Abbas	11.03.2020	Patent No-334411
3.	31.03.2008	648/KOL/2008	Flyer speed controller and measurement system of spinning machines	Dr. Gautam Roy, Mr. Govindo Kripa Bhattacharya Dr. S. K. Bhattacharya	04.06.2020	Patent No-337956

## Personnel

### NEW ENTRANTS

Name	Post	wef	Division /Section	Your work ethic and positive attitude has been an asset to this institute and will take you far in your new venture. Congratulations!
Dr. Sanchita Biswas	Scientist	04.04.2020	MP	
Dr. Niranjan Kumar	Scientist	04.04.2020	QE&I	
Dr. Nageshkumar T.	Scientist	04.04.2020	QE&I	
Anweshha Sasmal	Technician	06.02.2020	C&BP	

### SUPERANNUATION

Name	Designation	Date	Division	This is another beginning of your life. Hearty Congratulations on your retirement
Sh. Subir Kr. Bardhan	Skilled Support Staff	31.03.2020	C&BP	
Sh. Bhikari Nayak	Skilled Support Staff	29.02.2020	Library	

## OBITUARY

With profound sorrow it is informed that Smt. Dipa Roy, Personal Assistant, Adm-I Sec. of the Institute was passed away on 24.03.2020. Let us pray for the departed soul and for the bereaved family members.



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 The Director, ICAR- National Institute of Natural Fibre Engineering and Technology  
 (Erstwhile ICAR-NIRJAFT)  
**An ISO 9001: 2015 certified Institute**  
 12, Regent Park, Kolkata – 700040, West Bengal  
 Phone: 033-24711807 (Director)  
 Office - 033 24212115/16/17 (EPBX); Fax : 033 2471 2583  
 Email : director.ninfet@icar.gov.in; nirjaftdirectorcell13@gmail.com  
 Website: www.nirjaft.res.in



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