



Celebrating Silver Jubilee of Tezpur University

&

Decadal Existence of the IPR Cell



## REGIONAL WORKSHOP ON TRANSLATIONAL RESEARCH AND INNOVATION

.....MAKING USE OF IPR ACROSS VALUE CHAIN

30<sup>TH</sup> DEC, 2018



Organized by

**Tezpur University Intellectual Property Rights Cell**

**Tezpur University**

In collaboration with

**National Research Development Corporation (NRDC)**

An enterprise of the Department of Scientific & Industrial Research

Department of Science and Technology, Government of India

The Report on

Regional Workshop on  
**Translational Research and Innovation-.....making  
use of IPR across value chain**

As part of celebration of its silver jubilee, a regional workshop on “Translational Research and Innovation-.....making use of IPR across value chain” was organized on 30th of Dec (Sunday), 2018 at Tezpur University. This workshop cum training programme, jointly organised by TUIPR Cell with NRDC, was aimed at providing solutions to technological demands through deliberations from top technocrats belonging to various sectors like Oil India Ltd, Duliajan, M/s Medlis Healthcare Pvt Ltd. , Ahmedabad, Bhogali Food Products Pvt. Ltd., Guwahati, Williamson Magor Group etc. and professionals from organisations like LS Davar and Co. (IP attorney), Indian Patent Office, Kolkata and NEIST Jorhat.

The programme started with the deliberation from Prof. Pritam Deb, Coordinator, TUIPR Cell. In his welcome address, he shared with the gathering the idea behind organizing such a workshop for the innovators. It was stated how the 1<sup>st</sup> Industry-Academia Conclave, RITES-2018, organised to celebrate 10 years of establishment of the Cell on 26<sup>th</sup> April 2018, paved the way for this 2<sup>nd</sup> conclave in the form of this regional workshop. On the other front, he informed how the National IPR Policy of India has been load and clear about protection and commercialization of the intellectual outputs at institutional level.



Thus, to think beyond the conventional deliverables of an academic research was the message that set the tone for the commencement of the regional workshop. The spirit of the workshop on translating innovations to marketable technologies was further elaborated by the Dean Research and Development Tezpur University, Prof. A.K.Mukherjee.



He expressed “to think beyond papers... is the need of the hour”. He was further supported by the Director, IQAC, Prof. D.C. Baruah, who is also the ex-coordinator of the IPR Cell. He further elaborated how commercialization of technologies shall help institutions in becoming less dependent on Govt. agencies for funding support for research. However, he requested the innovators to think rationally while making available the essential technologies to the society .

Photo: Prof. Pritam Deb, Coordinator, TUIPR Cell (Top) and Prof. A. K. Mukherjee, Dean, R&D, Tezpur University (Bottom)



Inaugurating the workshop, Dr. H. Purushotham, CMD, NRDC stressed “inventors must focus on Technology Readiness Level (TRLs) and work more aggressively on bridging the gap between technology and market requirement”. He further elaborated on investment patterns of developed countries on successful technology translation from Lab Scale and market ready prototype.



Photo: (Top) Chief Guest Dr. H. Purushotham, CMB NRDC, during his deliberation in the inaugural session



Photo: (Left) Guest of Honour, Shri.B.P.Sarma, RCE, OIL Duliajan during his address in the inaugural session

Resident Chief Executive, OIL, Shri B.P.Sarma, the Guest of Honour, while discussing the research and development activities of Oil India Limited, provided a sneak peek into the perspective with which the industries like OIL see translational research. Elaborating on the technologies invented and secured by the organisation in terms of patents, he further stated that very soon these will be rolled out for commercialization. Expressing hope for collaboration with academic institutions, he stated that that technology infusion and collaboration seems possible in terms of certain areas like Enhanced Oil Recovery (EOR), reducing wastage of crude oil while exploration etc. This was followed by a brief introductory session with the participants.



Photo: The participants of the workshop with the resource persons

The workshop was attended by 30 select participants from various fields of science and technology, who had one or more technologies in hand and are getting ready for translation in the next level. 14 innovators showcased their innovations to the industry representatives and IPR professionals for comments.



Photo: (Left) Glimpses of the presentation by the innovators in the Technical Session-II. These innovations were seen and commented upon by Industry and IPR specialists for better outcome. Some of the innovations were appreciated and discussed further for collaborative work.

Photo: (Right) The participants asked questions and tried to learn from the experiences shared by the industry personnel. This paved the way for post workshop informal interaction where the innovators wanted specific inputs regarding their innovations and way-out for initiating industry collaborations.







Photo: (Top)Felicitation of the speaker by the Coordinator, TUIPR Cell and (Bottom) Presentation by Dr. H. Purushotham, CMD, NRDC.

The TECHNICAL SESSION -I on 'Translational Research and Success Stories' started with the presentation on **Role of NRDC: IP & Technology Commercialization a support to Industry-Academia** by Dr. H. Purushotham, CMD, NRDC. This presentation informed the participants about the initiative taken by NRDC to promote and commercialize home grown technologies from Academic and Technical institutions. Various schemes under which technologies are supported were also discussed. It was stated that one of the major problems faced during technology translation from academic institutions is the inappropriate **Technology Readiness Level (TRL)** while technology transfer. Thus, it has been found that the technology may not have adequately matured to be taken up by industries. Thus, we must focus on upgrading the technology from Lab Scale to appropriate TRL before focussing on Technology Transfers for successful commercialization. He also mentioned various schemes available for supporting upgradation of such technologies.

The second presentation of the TECHNICAL SESSION-I was on **Challenges and Opportunities in Oil Sector** by Shri. P.K. Dhodapkar, General Manager, R&D Department, Oil India Limited, Duliajan. He narrated some of the important bottlenecks that the Oil sector is facing in terms of its regular drilling /extraction and transportation activities. He pointed out how his department is working to find solutions for them, and some of which can be further taken up by the academic institutes for collaborative works. He mentioned about the two technologies taken from two different foreign universities for overcoming some of the technical problems during exploration.



Photo: Shri. P.K. Dhodapkar, General Manager (R&D), Oil India Limited, Duliajan.



Photo: The speaker is felicitated by Prof. P. Deb, Coordinator, TUIPR Cell, Tezpur University

He also cautioned on the high risk nature of the operations conducted by the OIL officials on daily basis and thus, expressed that field trials on any prospective technology from Academic Institutions for validation will have to be performed very selectively without endangering safety requirements. Elaborating further on support provided by OIL for homegrown technologies, he shared with the gathering, the support provided through Start-Up scheme which is initiated in collaboration with IIT Guwahati.

The third presentation of the TECHNICAL SESSION -I was on **Converting Market Challenges to Opportunities in pharmaceuticals** by Shri. Sunil Kulshrestha, Director, M/s Medlis Healthcare Pvt Ltd., Ahmedabad. Initiating the deliberation with the scenario of technology requirement in the Health Sector of India, he revealed the amount of investment that is required to make a lab scale technology ready for market consumption. He also stated that about 40% of the generic drugs sold to foreign countries are developed in India.

Further, he also discussed about the amount of investment that is required to get validation reports after performing clinical trials. The different types of clinical trials that have to be performed before any drug can be released for human consumption made the picture very clear for the pricing system for lifesaving drugs. At this point, he asserted the importance of IPR for getting the adequate return on such investments made. Discussing about the drug delivery system, he also demonstrated some new equipments in the pharma sector which shall help in managing the hospital wastes more effectively.



Photo: Shri. Sunil Kulshrestha, Director, M/s Medlis Healthcare Pvt Ltd., Ahmedabad presenting in the Technical Session - I

He also mentioned about the technologies like biocompatible tubing for injecting drugs which can be very promising as research problem, having scope for translation. This session witnessed some very interesting questions from the participants of the Department of Molecular Biology and Biotechnology, who had one or more technologies in this direction. He advised them on how to approach industries for conducting trials for validating results.





Photo: (Left) Felicitation of the IP attorney from M/S L.S.Davar and Co., Shri D. Ray from Kolkata. (Top) Shri. Ray during his deliberation in the Technical Session-II

The technical session -II mostly looked into the IPR protection regime in India and the challenges that the inventions from academic institutions generally face while protecting the same in the Patent Office. While discussing various types of patent specifications in his presentation **“DRAFTING AND PROSECUTION A BRIEF OVERVIEW OF KEY POINTS”**, Mr. Ray from M/S L. S. Davar and Co. explained how a single smartphone is protected by more than one type of IP Rights like Patents, Copyrights, Industrial Designs and Trademarks. Discussing the IP Filing trends in India, he stated how Trademark remained the most popular IP Rights registered and exercised. Discussing about the Divisional Application and the Patent of Addition, he further hinted on the various provisions available for splitting an invention into two or improving and already applied patent application. The following presentation was by Dr. S.K. Mitra on **“IP SYSTEM FOR DEVELOPMENT OF SCIENTIFIC COMMUNITIES”** where he deliberated on Intellectual Property Rights in general and inventions in particular. Focusing on dichotomy of inventions that are patentable from those which are merely novel, he discussed the Role of Patent System in India and certain other important conventions like PCT and TRIPs.



Photo: (Left) Deliberation by Dr. S. K. Mitra, Ex-Deputy Controller of Indian Patent Office, Kolkata and and Director, Centre for Intellectual Property Rights (CIPR), Adamas University, Kolkata during the technical session -II





Photo: Presentation by Dr. Jatin Kalita, Principal Scientist, NEIST Jorhat and felicitation of the speaker by the Coordinator, IPR Cell Prof. P. Deb

The Technical Session -III on **TECHNOLOGICAL NEEDS OF THE INDUSTRIES OF THE REGION** started with the Presentation on **Dissemination of CSIR-NEIST Technologies** by Dr. Jatin Kalita, Principal Scientist, NEIST Jorhat. In his deliberation, Dr. Kalita highlighted about the Major Research Activities taking place in NEIST with special emphasis on the current areas of technology development like Bio-fertilizers, Pest Control, Bioremediation, Membrane Technologies, Active Pharmaceutical Intermediates, Healthcare/Herbal Formulations, Medicinal Aromatic & Economic Plants etc. Discussing on Top Down and Bottom Up approach for technology commercialization, he shared some of his experiences on the successfully commercialized technologies from their institute. Emphasising on the importance of visibility among the stakeholders, he discussed various approaches adopted for creating awareness about the technologies available like advertisement in newspaper, advertisement in other publicity material: annual report, newsletter, souvenir reports etc. and participation in exhibition at urban/ semi-urban/ rural level etc. This was followed by the deliberation on **Technological Interventions in Food Industry** by Shri. Ajit Sharma Baruah, Director, Bhogali Food Products Pvt. Ltd., Guwahati. In his presentation, he narrated how the journey of the present brand “Bhojali Jalpan ” began in a modest way 1994. Reiterating the vision of the enterprise i.e. To innovatively recharge our cultural foods as a “package of



Photo: (Top Left) Shri. Ajit Sharma Baruah, Director, Bhogali Food Products Pvt. Ltd., Guwahati presenting in the technical session-III and (Top Right) by Sri. Bipul Gogoi, Manager, Boroi Tea in the concluding session.



Photo: The participants of the workshop with the resource persons

*“package of complete Food solution”: a dedication to our customers, our culture and our country*, he impressed upon the importance of standardizing the traditional sweet/snack items together with proper packaging to serve the national and international consumers authentic yet satisfactory products. Sharing various initiatives taken by his organisation to popularise the traditional food items, he stressed that constant innovation in terms of taste and presentation is the key to establish the traditional items among the young folks. Providing some potential areas of association Mr. Sarma Baruah further stated that the potential areas of probable association with University could be: 1. *Product/recipe standardization based upon ‘nutrition value’ and ‘taste’ of new generation customers*, 2. *Automation/mechanization of production system to enhance productivity and food safety etc.* The concluding presentation was on **Technological Interventions in Tea Industry** by Sri. Bipul Gogoi, Manager, Boroi Tea Estate where he deliberated on the whole process of tea production in detail. Discussing the scope for technical intervention for better production like mechanical plucking etc., he encouraged the innovators to think about the steps where losses can be reduced due to erratic handling of the leaves and the produced curls. Talking on the Minimum Residual Limits (MRLs) of the pesticides sprayed on

the saplings, he shared with the inventors how the organic movement is happening across the gardens and how it is catalysed by the demand in the international market. The daylong programme ended with concluding remarks from the Coordinator, TUIPR Cell, Prof. P. Deb and a brief vote of thanks from the Research Officer, IPR Cell Dr. Juri B. Saikia



Photo: (Right) Dr. Juri B. Saikia, Research Officer TUIPR Cell, delivering the summary and vote of thanks to the participants



### *Detailed Programme*

Date: 30.12.2018 (Sunday)		Venue: Guest House	
TIME	PROGRAMME		
9.00 AM—9.15 AM	Registration		
9.15 AM—9.45 AM	INAUGURATION		
	Welcome Address and Introduction of the theme by Prof. Pritam Deb, Coordinator, TUIPR Cell, Tezpur University		
	Inaugural Address by Shri B.P. Sarma, Resident Chief Executive, Oil India Limited, Duliajan		
	Address by the Chief Guest, Dr. H. Purushotham, CMD, NRDC		
9.45 AM —10.00 AM	High Tea		
10.00 AM—12.00 Noon	TECHNICAL SESSION -I <i>Translational Research and Success Stories</i>		
	Session A: Presentation on <b>Role of NRDC: IP &amp; Technology Commercialization a support to Industry-Academia</b> by Dr. H. Purushotham, CMD, NRDC		
	Session B: Presentation on <b>Challenges and Opportunities in Oil Sector of the region</b> by Shri B.P. Sarma, Resident Chief Executive and Shri. P.K. Dhodapkar, General Manager (R&D), R&D Department, Oil India Limited, Duliajan		
	Session C: Presentation on <b>Converting Market Challenges to Opportunities in pharmaceuticals</b> by Shri. Sunil Kulshrestha, Director, M/s Medlis Healthcare Pvt Ltd. , Ahmedabad		
12 Noon- 12.10 PM	Tea Break		
12.10 PM—2.00 PM	TECHNICAL SESSION-II <i>Learning the nuances of protecting the technology and translating research to technologies in need</i>		
	Session A: Presentation by Shri Diptarka Ray, IP Attorney, LS Davar and Co. on <b>Drafting of Patent and its Prosecution in India</b>		
	Session B: Presentation on <b>Overview of IP and Patent System in India</b> by Dr. S. K. Mitra, Ex-Deputy Controller of Indian Patent Office, Kolkata and Director, Centre for Intellectual Property Rights (CIPR), Adamas University, Kolkata		
	Session C: Presentation by young innovators		
2.00 PM —2.45 PM	LUNCH		
2.45 PM— 5.00 PM	TECHNICAL SESSION -III <i>Technological needs of the industries of the region</i>		
	Session A: Presentation on <b>Dissemination of CSIR-NEIST Technologies Dissemination of CSIR-NEIST Technologies Dissemination of CSIR-NEIST Technologies</b> by Dr. Jatin Kalita, Principal Scientist, NEIST Jorhat.		
	Session B: Presentation on <b>Technological Interventions in Food Industry</b> by Shri. Ajit Sharma Baruah, Director, Bhogali Food Products Pvt. Ltd., Guwahati		
	Session C: Presentation on <b>Technological Interventions in Tea Industry</b> by Sri. Bipul Gogoi, Manager, Boroi Tea Estate.		
5.00—5.30 PM	Concluding Ceremony		

**List of Participants for**  
**WORKSHOP ON TRANSLATIONAL RESEARCH AND INNOVATION**  
*MAKING USE OF IPR A CROSS VALUE CHAIN*  
**30th December, 2018**

SL. NO	NAME OF THE PARTICIPANTS	DEPT/CELL/INSTITUTES
1	BHABANA DAS	MBBT, TEZPUR UNIVERSITY
2	RIJUANA AKHTAR FARUQUE	MBBT, TEZPUR UNIVERSITY
3	DIPEN DEKA	ELECTRONICS AND COMMUNICATION ENGINEERING, CIT, KOKRAJHAR
5	ABHISHEK CHANDA	MBBT, TEZPUR UNIVERSITY
6	APARUP PATRA	MBBT, TEZPUR UNIVERSITY
7	SWAGATA DAS	MBBT, TEZPUR UNIVERSITY
8	TAUFIKUL ISLAM	MBBT, TEZPUR UNIVERSITY
9	BHARGAB KALITA	MBBT, TEZPUR UNIVERSITY
10	SUMITA DUTTA	MBBT, TEZPUR UNIVERSITY
11	NITISHA BORO	MBBT, TEZPUR UNIVERSITY
12	DEBASISH GOGOI	MECHANICAL ENGINEERING, TEZPUR UNIVERSITY
13	SANDEEP KUMAR VISHWAS	MECHANICAL ENGINEERING, TEZPUR UNIVERSITY
14	NAYANITA KALITA	MECHANICAL ENGINEERING, TEZPUR UNIVERSITY
15	RAKTIM RANJAN HAZARIKA	MECHANICAL ENGINEERING, TEZPUR UNIVERSITY
16	KORABI KONWAR	PHYSICS, TEZPUR UNIVERSITY
17	PRASTUTI SHIVAM	ELECTRONICS AND COMMUNICATION ENGINEERING, TU
18	MUNTI KUMAR NATH	MECHANICAL ENGINEERING, TEZPUR UNIVERSITY
19	MAYURI BORA	PHYSICS, TEZPUR UNIVERSITY
20	MEENAKSHI TALUKDAR	PHYSICS, TEZPUR UNIVERSITY
21	SURAJ SINGH	ELECTRONICS AND COMMUNICATION ENGINEERING, TU
22	SIDDHARTHA BHUYAN	COMPUTER SCIENCE AND ENGINEERING, TEZPUR UNIVERSITY
23	SUHAS.D	ELECTRONICS AND COMMUNICATION ENGINEERING, TU
24	MRINAL KALITA	ELECTRONICS AND COMMUNICATION ENGINEERING, TU
25	KASTURI SARMAH	COMPUTER SCIENCE AND ENGINEERING, TEZPUR UNIVERSITY
26	SHUBHAM ROHILLA	FOOD ENGINEERING AND TECHNOLOGY, TEZPUR UNIVERSITY
27	SAURANGA DAS	MECHANICAL ENGINEERING, TEZPUR UNIVERSITY
28	GITANGALI GAUTAM	FOOD ENGINEERING AND TECHNOLOGY, TEZPUR UNIVERSITY
29	SWAGATA DAS	MBBT, TEZPUR UNIVERSITY
30	HIMAKSHI BAISHYA	FOOD ENGINEERING AND TECHNOLOGY, TEZPUR UNIVERSITY



## The Speakers



Dr. H. Purushotham, CMD,  
NRDC,  
Ministry of Science and  
Technology, GOI



Shri B.P. Sarma, Resident Chief  
Executive, Oil India Limited,  
Duliajan



Shri. P.K. Dhodapkar, General  
Manager (R&D), R&D  
Department, Oil India  
Limited, Duliajan



Shri. Sunil Kulshrestha, Director,  
M/s Medlis Healthcare Pvt Ltd. ,  
Ahmedabad



Shri Diptarka Ray, IP Attorney, LS  
Davar and Co.



Dr. S. K. Mitra, Ex-Deputy  
Controller of Indian Patent  
Office, Kolkata and Director,  
Centre for Intellectual  
Property Rights (CIPR),  
Adamas University, Kolkata



Dr. Jatin Kalita, Principal  
Scientist, NEIST Jorhat



Shri. Ajit Sharma Baruah, Director,  
Bhogali Food Products Pvt. Ltd.,  
Guwahati



Sri. Bipul Gogoi, Manager,  
Boroi Tea Estate.,  
Boroi Tea Estate.,.

### **About Tezpur University:**

Tezpur University was established by an Act of Parliament in 1994 and is outcome of the historic Assam Accord signed by the Government of India, Government of Assam and the All Assam Students' Union in 1985. The University is nestled in a 262-acre campus at Tezpur in middle Assam with 3800 students, 290 faculty and 300 non-teaching staff. The university is currently offering 72 programmes through 22 departments and 12 centres under four schools of studies. It has been securing recognition from various government and non-governmental organisation at national as well as international levels including the "Best University" award by the Visitor (President of India) in 2016, 5th Position in the National Institutional Ranking Framework of Ministry of Human resource Development, Government of India, 2016, 100th rank in the Times Higher Education Asia University Rankings 2018, and 146th amongst the BRICS nations as stated in the QS (Quacquarelli Symonds) BRICS University Rankings 2019. In pursuit of the holistic development of the students, the University has created state-of-the art facilities -academic as well as co-curricular– on its campus. Apart from the in camps activities, the Students are encouraged to make meaningful contributions to the development of the society at large.



### **About TUIPR Cell:**

The Tezpur University Intellectual Property Rights Cell (TUIPR Cell) came into existence in Tezpur University in 2009. In the year 2010, the University was awarded the prestigious MHRD IPR Chair that started functioning under the umbrella of the TUIPR Cell. Besides assisting the TU fraternity for IPR related matters, the Cell has been conducting various workshops, training and outreach programmes on regular basis.

The aim behind all the conducted programmes is to introduce intellectual property (IP) consciousness to a wide spectrum of audience representing different strata of the society. IPR has been introduced in the University curriculum to develop a sense of respect among students for the intellectual property and equip them with knowledge of various IPR tools. In order to make research activities rewarding and self-sustaining, the TUIPR Cell has been taking a number of initiatives to promote protection of IPs resulting from the research activities undertaken in the University. The Cell has come in collaboration and agreement with government agencies for receiving support for filing of patent applications and also is in agreement with a reputed IP attorney firm to handle certain critical issues related to the filing procedure. Another MoU is signed with a government agency for commercialization of the protected technologies. Besides this, assistance from various government agencies have been availed from time to time for getting financial support associated with procedural requirements for protecting various IPs emanating from academic research. Currently, the Cell is focusing on creating a conducive environment for the industries to feel confident while seeking solutions to their problems with the innovators of the University, thereby paving way for successful technology transfer and commercialization.