

Journey of innovation through UIL (University Industry Linkage)

3rd ASEAN India Grassroots Innovation Forum

20th December 2022

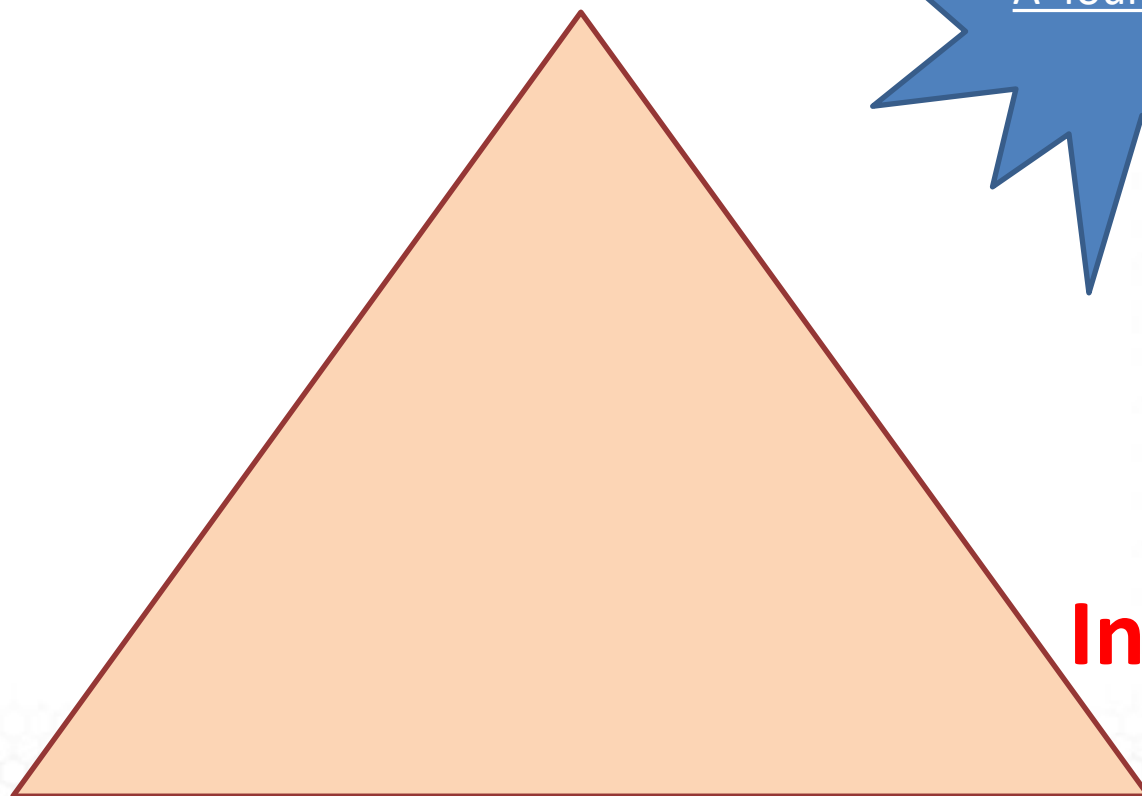
Phnom Penh, Kingdom of Cambodia

Prof K M L Pathak

India

Knowledge

A foundation



Creativity

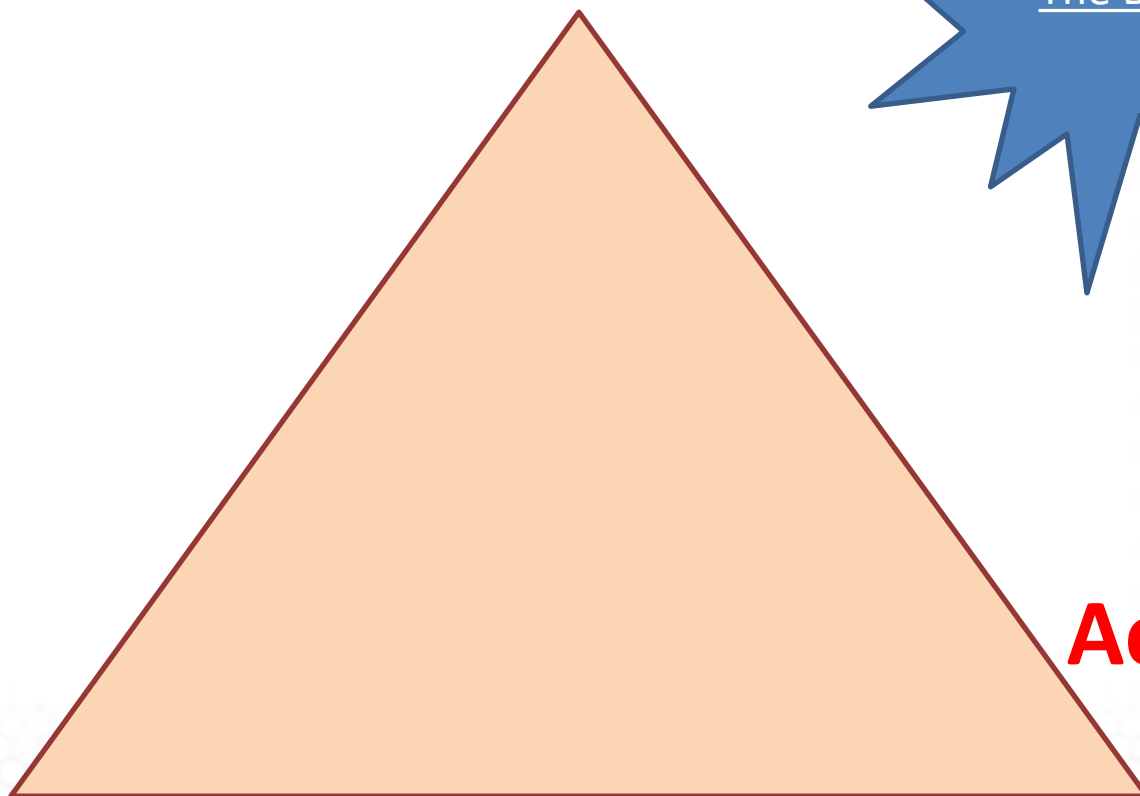
Innovation

Innovation

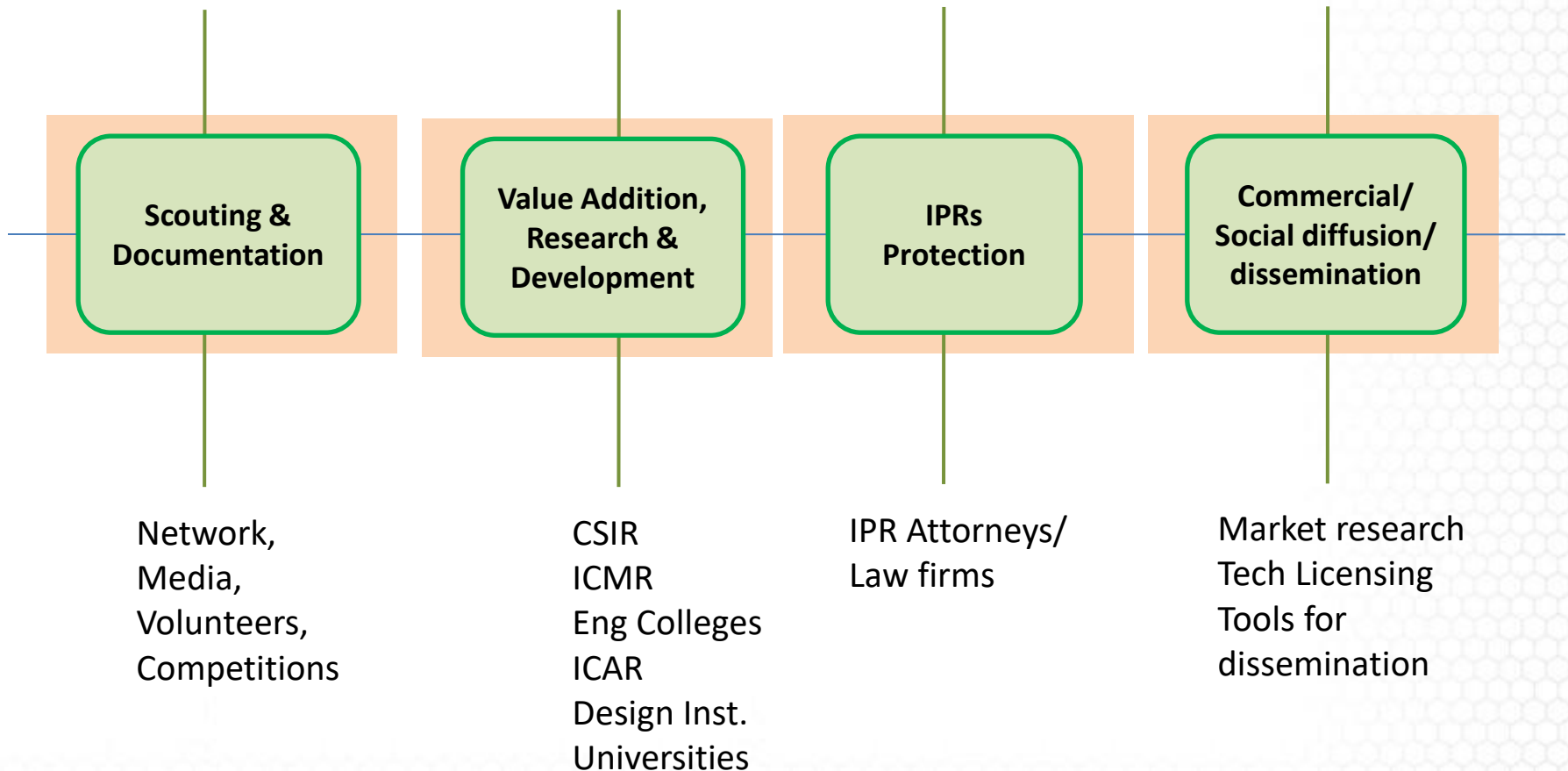
The Bridge

Academia

Industry



Promoting creativity at the grassroots



NIF

**Builds bridges between formal and informal
science, technology and innovation**

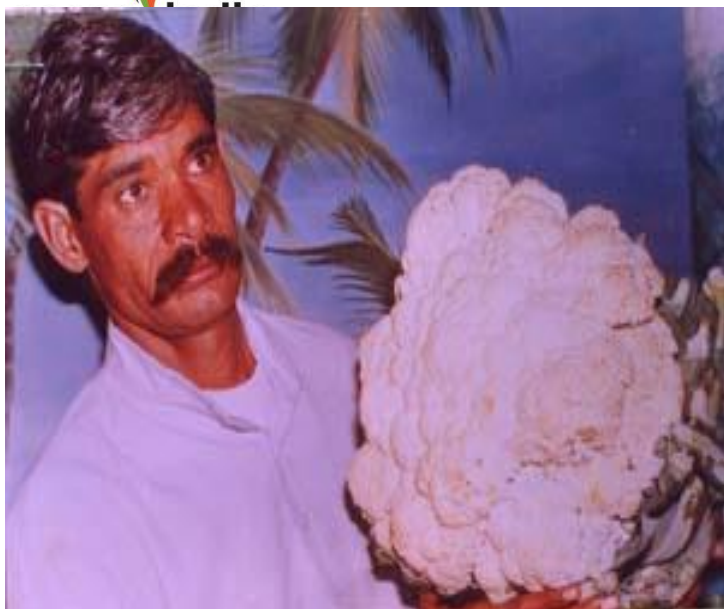
Incubates ideas, innovations and outstanding
traditional knowledge practices for diffusion
with or without value addition through
commercial and non commercial channels as
public goods



Srishti School of Art, Design & Technology, Bangalore

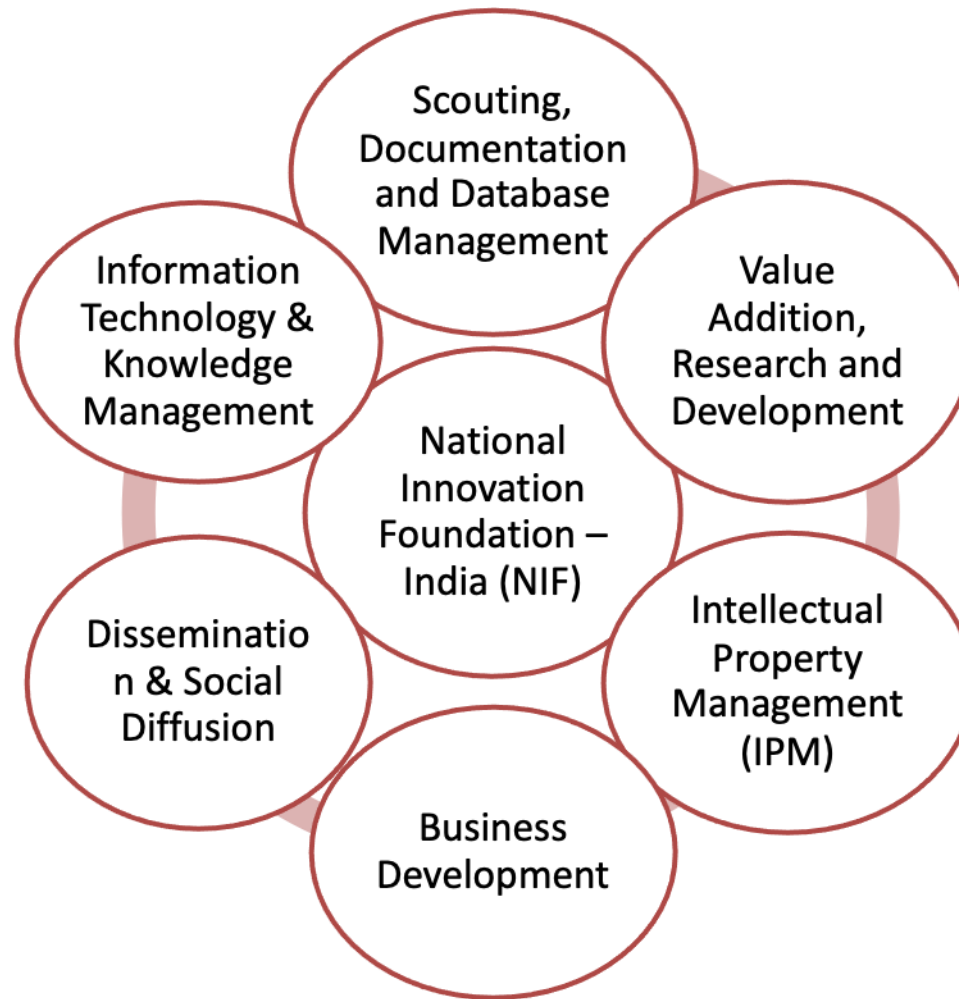


Farmers' Plant Varieties



- **Linkages between formal scientific systems [University] and informal knowledge systems is essential**
- **Institutional support in sustaining grassroots green innovation and outstanding traditional knowledge**
- **Pooling of traditional knowledge to generate contemporary innovations**

- **Innovation incubation chain to leverage product development activities in support with industry for large scale commercial diffusion**
- **Social diffusion to focus on insitu value addition**



Key accomplishments

Pooled a database of 3,40,000 ideas and innovations

708 Grassroots Innovators and Outstanding Traditional Holders recognized under Biennial National Grassroots Innovation and Outstanding Traditional Knowledge Awards

Between 2016-22, a total of 7 grassroots innovators supported by NIF have been conferred with Padma Shri and NIF's award was their first major recognition. Few students first spotted by NIF were later conferred with Pradhan Mantri Rashtriya Bal Puraskar

Nearly 2000 technologies have been supported at different levels through various mechanisms

1244 patents filed and 328 amongst these have been granted

24 Design registrations filed of which 20 are granted; 11 trade mark applications have also been filed of which 7 have been granted

78 plant varieties developed by farmers are filed at the Protection of Plant Varieties & Farmers' Rights Authority, of which 23 have successfully been registered

238 innovation based enterprise projects have been supported for Working capital requirements through SIDBI

120 cases of technology licensing (including products sold internationally and available on online / brick – mortar stores)

INSPIRE Awards - MANAK 22,98,632 ideas and innovations scouted during last 5 FY's and 2,28,925 supported in various ways. 120 have been recognized and provided incubation support. During FY 2021-22, 7.05 Lakh ideas were scouted



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National Innovation Foundation - India

विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY

75
Azadi Ka
Amrit Mahotsav

राष्ट्रीय नवोद्यमन परिषद - भारत
National Innovation Foundation - India


inspire awards - manak
million minds augmenting national aspiration and knowledge

9वीं राष्ट्र स्तरीय प्रदर्शनी एवं प्रोजेक्ट प्रतियोगिता पुरस्कार
डॉ. जितेन्द्र सिंह
माननीय केंद्रीय राज्य मंत्री (स्वतंत्र प्रभार)
विज्ञान एवं प्रौद्योगिकी और पृथ्वी विज्ञान मंत्रालय
के द्वारा

9th National Level Exhibition and Project Competition Awards
By
Dr. Jitendra Singh
Hon'ble Union Minister of State (Independent Charge)
Ministry of Science & Technology and Earth Sciences

सितम्बर 16, 2022, विज्ञान भवन, नई दिल्ली September 16, 2022, Vigyan Bhawan, New Delhi



Motivating children and students for creativity and innovation



A diversified set of Technologies - Selected student innovations in the market

Introducing
for the first time
in India

dura STEP WALKER

A walker that helps you
move and go up & down
the staircase independently
PC No. : 2941

KEY FEATURES:

- Unique lever mechanism to adjust rear and front legs
- Ergonomically designed for stability & support
- Easy to unfold & fold
- Adjustable height (81-91 cm)
- Strong & lightweight



VISSCO
From pain to peak performance



PRODUCT SPECIFICATION

					
Minimum Height 81 cm	Mid-riser Height 91 cm	Overall Width 69 cm	Overall Length 43 cm	Width 47 cm	Length 35 cm

				
Folding Width 15 cm	Up Step 17 cm	Down Step 16 cm	Weight Bearing Capacity 130 Kg	Net Weight 4.650 Kg



To get additional 2 months warranty
register on www.vissco.com/comfortmypain

For enquiry contact: Phone: 022 4333 0333 / 300 | Email Id: customercare@vissco.com



Innovation: Manual waste lifting and dumping cart, based on Idea of Master Sikanto Mandal who was conferred with INSPIRE Awards – MANAK. Later Technology was transferred to a start-up enterprise

Innovation: Walker with Adjustable Legs, based on Idea of Shalini Kumari who was conferred with IGNITE Award. Later Technology was transferred to Vissco, India's leading manufacturer of orthopaedic products and is now available through brick and mortar stores and also through Amazon

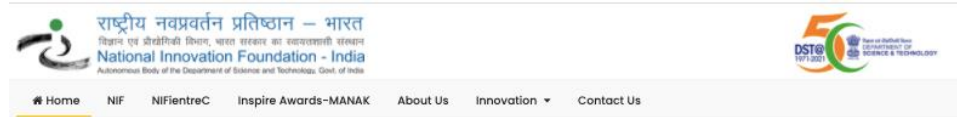


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National Innovation Foundation - India

The Innovation Portal of NIF



Beyond the boundaries of formal institutions, a large number of individuals in the informal sector have been engaged in innovative technological pursuits of their own. Over the last two decades, the National Innovation Foundation - India (NIF) has been earnestly scouting and documenting such technological ideas and innovations of the people at the grassroots and school students from all parts of the country to identify the novel innovations and practices to be taken forward for incubation.

This portal is an initiative of the NIF to bring into the public domain the database of technological ideas, innovations and herbal knowledge available with it. These innovations pertain to various domains such as agricultural machinery, household gadgets, energy, transport, electronics, and communication, general utility, plant varieties, herbal plant protection practices, herbal veterinary practices, among others.

NIF encourages MSMEs and Entrepreneurs to explore the portal, identify innovations for manufacturing and/or marketing, and get in touch for further discussion. Other visitors such as researchers, readers, etc may relish going through the creative work undertaken by grassroots innovators and school students from all parts of the country.



<https://innovation.nif.org.in/>



INNOVATIONS



Modified Combine Harvester

Profile: Surendra Prasad hails from Sant Kabir Nagar district of Uttar Pradesh. Due to poor economic conditions and a father's ill health, he had to leave studies at an early age. [View More](#)



Tractor Operated Paddy Transplanter

Profile: Innovators Mr. Shyamprakash Singh and Mr. Ved Prakash are originally hailing from Uttar Pradesh. They are farmers with knowledge of fabrication and machinery. Ved Prakash tried his hands at farming. [View More](#)



Extra Weft Handloom Machine

Profile: Innovator Mr. Dipak Bhattacharya hails from Kamrupa district of Assam. Purpose: Shri. Dipak has developed a machine that ensures weaving of better quality fabrics. Technical details: The device consists of... [View More](#)



Modified Palmyrah and Coconut Tree Climber (Seating Type)

Profile: Innovator Mr. D. N. Venkat hails from Coimbatore district of Tamil Nadu. He had studied up to 8th standard. He was working in khadi spinning unit as daily wage. [View More](#)

Visitor: 635421

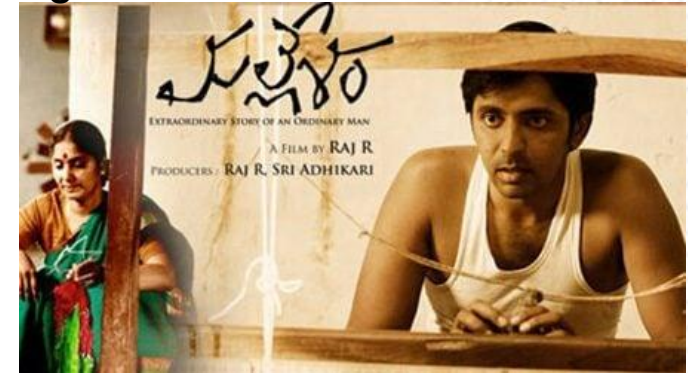
Selected Notable stories

Mr Arunachalam Muruganantham – Sanitary Napkin Making Machine



Selected Notable stories

Mr C H Mallesham – Laxmi Asu Making Machine



Mallesham was conferred with Honorary
Degree of Doctor of Letters by GITAM
(Deemed to be University)

NIF's dissemination efforts with a purpose to bring Inclusivity

Grassroots Innovations are being deployed for Skill Development and Livelihood in Correctional Homes



Key recent activities undertaken by NIF in the States of UP and Bihar

Dissemination of HRMN 99, an apple variety incubated by NIF, was organized at Bandwar village, Begusarai, Bihar



Lord Ganesha



Eco friendly pots



Giving visibility to the work of innovative common people of the country



Mitticool range of products



Technological Innovation areas

Engineering

Agriculture
plant varieties

Veterinary
Science

Human Health





Commercialised
Product(s) from
outstanding herbal
knowledge



Herbal mosquito repellent cream

Miscellaneous innovations related to Agri mechanization



Miscellaneous improved plant varieties



Technology Transfer: Tractor operated paddy transplanter

Sept 2021

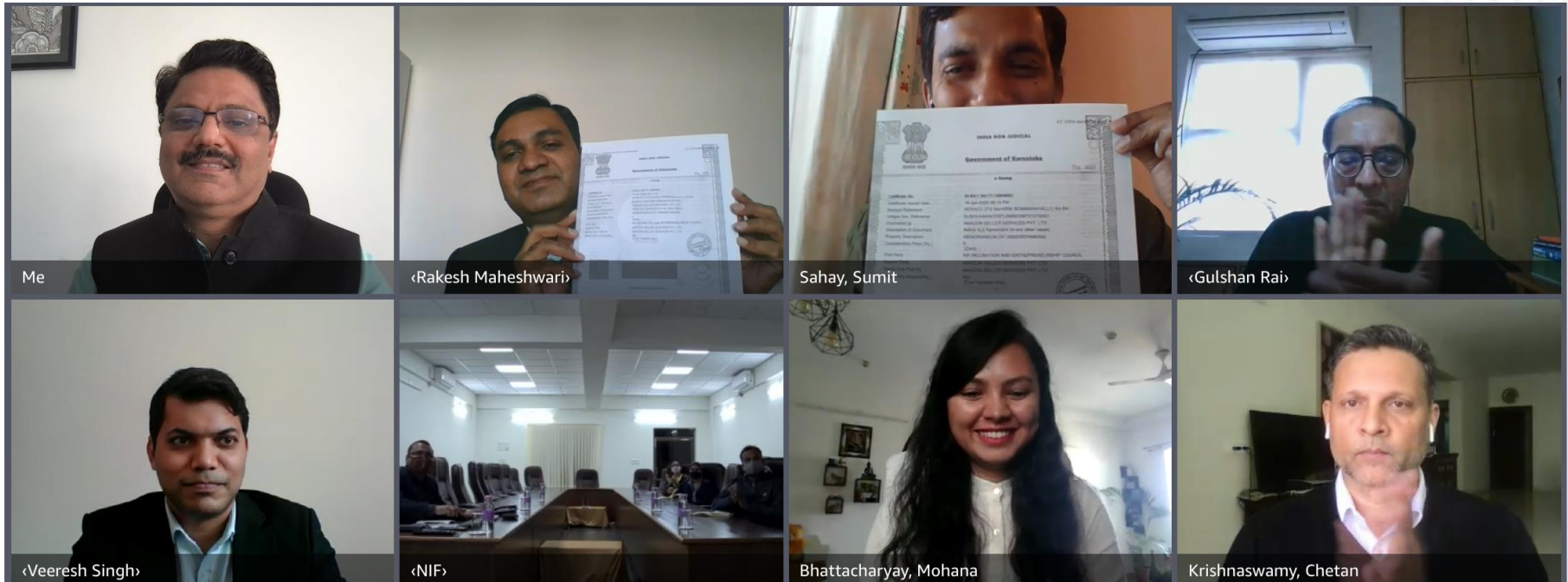




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Thank you !

Email – pathakkml@yahoo.co.in