

PARLIAMENT QUESTION: INITIATIVES FOR PROMOTING TRADITIONAL KNOWLEDGE, RURAL TECHNIQUES AND LOCAL INNOVATIONS IN BIHAR

Posted On: 07 AUG 2025 3:26PM by PIB Delhi

The Government of India is actively working towards identification and promotion of traditional knowledge, rural technologies, and local innovations across the country, including Bihar.

The Science and Heritage Research Initiative (SHRI) Cell of the Department of Science and Technology (DST) aims to utilize modern Science & Technology (S&T) tools to preserve, protect, and present the traditional knowledge of India. The SHRI Cell supported a project at Indian Institute of Technology (IIT) Patna, Bihar for digital restoration of UNESCO World Heritage site Nalanda by creating Augmented Reality (AR) to revive its ancient glory.

The Science for Equity, Empowerment and Development (SEED) Division of DST through its variety of schemes/programmes constantly endeavours societal development by supporting rural technologies and local innovations for creating sustainable livelihoods, primarily for enabling disadvantaged sections of the society. Project support was given to Bihar Agriculture University, Bhagalpur for revitalizing chickpea cultivation through microbial consortium in iron-deficient farmlands of Bihar and to ICAR Research Complex for Eastern Region, Patna to work on sustainable livelihood improvement of Scheduled Caste (SC) community through introduction of high yielding cereals, pulses and vegetable crops in Meskaur and Sirdala Blocks, Nawada District, Bihar.

In addition to above mentioned projects, during last 3 years DST supported 60 projects in multiple domains of S&T in Bihar.

The National Innovation Foundation (NIF), an autonomous institution of the Department of Science and Technology (DST), Government of India, is actively involved in identifying and promoting traditional knowledge, rural techniques, and local innovations across the country, including Bihar. During last five years, NIF had scouted a total of 6850 ideas, innovations, and traditional knowledge from 32 districts of Bihar and also facilitated technology commercialization and supported innovations in the field of Engineering, Plant Varieties / Crop Protection, and traditional knowledge. Three grassroots innovations from Bihar were awarded at national and international platforms. The list of 36 granted patents, 3 patent applications, and 1 PPV&FRA (Protection of Plant Varieties and Farmers' Rights Authority) filed from Bihar may be seen at Annexure I. List of innovations financially assisted by NIF from 8 districts of Bihar may be seen at Annexure II.

Annexure I

S.No.	Patents Granted	District
	Herbal Composition for Prevention or Control of Plant Pests (Patent # 418984)	East Champaran
	Herbal Composition For Prevention or Control of Plant Pests (Patent # 352692)	East Champaran
	Herbal Composition For Prevention or Control of Plant Pests	East Champaran

	(Patent # 352692)	
	Herbal Composition For Prevention or Control of Plant Pests (Patent # 415583)	East Champaran
	Improved Hacksaw (Patent Number: 386458)	Sitamarhi
	Smoke Free Cooker Assembly (Patent # 378369)	East Champaran
	A Multifocal Lighting Device (Patent # 387281)	Lakhisaria
	Two Way Operating Gear System (Patent # 388215)	Khagaria
	Multipurpose Walking Support Device (Patent # 403211)	Patna
	A Noise Reduction Device (Patent # 412044)	West Champaran
	A Modified Cart (Patent # 417013)	Muzaffarpur
	An Emergency Mechanism For Vehicular Escape (Patent # 442201)	Patna
	A Water Irrigation Pump (Patent # 515591)	West Champaran
	Novel Garment For Antimolestation (Patent # 514992)	Samastipur
	Sleep-Walking Detector and Preventer (Patent # 567390)	Madhubani
	Automatic Food Making Machine (Patent # 391068)	Bhagalpur
	Automatic Food Making Machine (Patent # 425469)	Bhagalpur
	Automatic Food Making Machine (Patent # 448948)	Bhagalpur
	Herbal Composition For Therapeutic Management of Obesity and Process of Preparation Thereof (Patent No. 526091)	Sitamarhi
	A Herbal Formulation For Treating Diseases of The Mouth and To Maintain Oral Hygiene (Patent Number- 439627)	Nalanda
	Herbal compositions for management of liver disorders and methods thereof (Patent Number: 434341)	Sheohar
	Herbal Pharmaceutical Formulation For Cataract and Process of Preparation Thereof (Patent Number- 432456)	Sitamarhi
	Herbal formulation for Prevention and Treatment of Eye disease and method of preparation Thereof (Patent No. 419848)	Nawada
	Herbal preparation for Therapeutic management of Neurological disorders (Patent No. 416170)	Nawada
	Herbal Composition For Control of High Blood Pressure and Process of Preparation (Patent Number :391323)	West Champaran
	Herbal Composition For Treatment Of Diarrhoea and Method Thereof (Patent Number :385679)	Nawada
	Herbal Composition For A Beverage With Antihypertensive Properties (Patent Number :381691)	West Champaran
	A Herbal Formulation For Treating Disease and Complications Caused By The Malarial Parasite (Patent Number :380902)	Nawada
	Herbal Compositions For Treatment or Prevention of Neurological Disorders (Patent Number :371369)	Nawada
	Herbal Compositions For Management of Liver Disorders and Methods Thereof (Patent Number :366860)	Sheohar

	A Herbal Composition For Treatment of Malaria (Patent Number :365970)	Siwan
	Herbal Composition For A Beverage With Anti-Inflammatory Properties (Patent Number :363070)	East Champaran
	Herbal Preparation For Therapeutic Management Of Neurological Disorders (Patent Number :356907)	Sheohar
	A Herbal Formulation To Enhance Poultry Immunity (Patent Number :394718)	East Champaran
	A Herbal Formulation For Treatment Of Bloating (Patent Number :378824)	West Champaran
	Herbal Composition For The Treatment Of Ephemeral Fever (Patent Number :362274)	Nawada
S. No.	Patents Filed	District
	Iron Cutting and Bending Machine (Application no. 202231024659)	Nawada
	A cannula safety apparatus/glove and method thereof (Application no. 202521020192)	Bhagalpur
	Synergistic herbal pesticide composition for controlling agricultural insect pests and methods of preparation thereof (Application: 202521017731)	East Champaran
	A PPV&FRA application for registration was filed - SONALI-45: Improved cauliflower variety: Application Number: REG/2025/0742	Vaishali

Annexure II

S.No.	District	Innovations
1.	Vaishali	i. Sanjeev Selection : Improved cauliflower variety ii. Sonali 45 : Improved cauliflower variety iii. AgaatKritika : Improved cauliflower variety iv. KS 67 : Improved variety of onion
2.	Sitamarhi	i. China 72 : Improved variety of chilli ii. Maniyari : Improved variety of hyacinthbean
3.	East Champaran	i. Sagar Jamal : Improved variety of potato ii. Ankit : Improved cauliflower variety iii. Katka 112 : Improved cauliflower variety iv. AsniMatar : Improved variety of garden pea v. Raja Mooli : Improved variety of radish vi. Herbal preparation for controlling lepidopteran and sucking pests of Brinjal crop
4.	Samastipur	RK 2001: Improved variety of brinjal
5.	West Champaran	Herbal botanical compositions for controlling of sucking and lepidopteran insect pests of Brinjal and Tomato
6.	Jamui	Fridge Surahi
7.	Nawada	Metal Cutting cum Bending Machine

8.	Nalanda	Power tiller-mounted potato harvester
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This information was given by Dr. Jitendra Singh, Union Minister of State (Independent Charge) for Science and Technology, Earth Sciences, MoS PMO, MoS Personnel, Public Grievances & Pensions, Department of Atomic Energy and Department of Space, in a written reply in the Rajya Sabha today.

NKR/PSM

(Release ID: 2153541)