

## Theme wise Ongoing Research Projects 2025-26

Sl. No.	Project code	Project Title	Name of PI & Co-PI	Start year	Comp Year	Funding agency
<b>Theme 1. Farming System Research including Climate Resilient Agriculture</b> <b>Theme Leader: Head, Division of Crop Research</b>						
<b>1.0 Integrated Farming System and Cropping System for Eastern Region</b>						
1.1	ICAR-RCER/DLW M/2022/272	Studies on efficacy of natural farming and comparison with existing farming	<i>Team Leader-</i> Anup Das (w.e.f. Feb. 2023) <i>PI-</i> Shivani Kirti Saurabh A. Upadhyaya Pawan Jeet Rachana Dubey Ved Prakash Rakesh Kumar R K Raman Sonaka Ghosh Santosh Kumar A.K. Dubey Saurabh Kumar (Associate) Prem Pal Kumar	2022	2028	ICAR-RCER
1.2		Development of sustainable Agroforestry models for Bihar's seasonally water-stressed agro-ecosystem	Abhishek Kumar Rakesh Kumar (Agronomy) Kirti Saurabh MK Dhakar Sanjeev Kumar P K Singh (Associate)	2023	2027	ICAR-RCER
1.3		Standardization of organic farming practices for middle Indo-Gangetic Plains	Kirti Saurabh Kumari Shubha A K Dubey Manisha Tamta Ghous Ali Abhishek Kumar (Farm Section)	2023	2026	ICAR-RCER
1.4		Pilot project for crop diversification	Sanjeev Kumar Rakesh Kumar Dhiraj Kr. Singh Kirti Saurabh A.K. Dubey Abhishek Kumar Ghous Ali Abhishek Pratap Singh (KVK, Betia)	2023-24	2027-28	DA&FW, MoA, GoI

1.5		Strengthening of Farming System Models for Livelihood Security of Farmers and its Promotion through Farmer Producers Organization (FPO) in Jharkhand	Reshma Shinde M K Dhakar S K Naik S S Mali V K Yadav Reena Kamal Sanjeev Kumar	2024	2027	RKVY Jharkhand
<b>2.0</b>	<b>Resource Conservation Technology</b>					
2.1	ICAR-RCER/ DCR/E F/ 2015 / <b>40</b>	Evaluation of Conservation Agricultural (CA) practices under Rice-Fallow system of Eastern Region	Rakesh Kumar B. K. Jha S. K. Naik S.S. Mali Rachana Dubey J.S. Choudhary Kirti Saurabh A S Mahapatra (Associate)	2015	2026	Consortium Research Platform on CA (ICAR)
2.2	--	Network project on Conservation of lac insect genetic resources (NPCLIGR)	Abhishek Kumar Md. Monobrullah	Jan. 2019	Dec., 2024 Extd. 2026	AINP on CLIGR
<b>3.0</b>	<b>Climate Resilient Agriculture</b>					
3.1		Development of Weather based Agriculture Advisory System	Ved Prakash Manisha Tamta Manibhushan Ajay Kumar Sanjeev Kumar Kumari Shubha A K Dubey Rakesh Kumar (AS) R K Raman S K Ahirwal T K Koley A Mukherjee Deo Karan (KVK Buxar)	2023	2026	ICAR-RCER
3.2	ICAR-RCER/ DCR/ 2023/ 283	Rice- Fallow Management (Umbrella Project)	<b>Project leader-</b> Anup Das <b>Nodal officer-</b> Sanjeev Kumar <b>PI-</b> Rakesh Kumar	2023	2027	ICAR-RCER

			Ajay Kumar Manibhushan Dhiraj Kr. Singh P. K. Sundaram Santosh Kumar Pawan Jeet Kirti Saurabh S K Ahirwal Ved Prakash Ghous Ali AS Mahapatra (Associate) <b>FSRCHPR Team</b> B K Jha S K Naik SS Mali J S Choudhary			
3.3		Village-level Carbon Budgeting through Climate Resilient Interventions	Rachana Dubey Banda Sainath Saurabh Kumar Abhay Kumar	July 2024	June 2027	ICAR-RCER
3.4		Bio-Nano Sulphur Formulation of Methanotrophs for Decarbonization, Disease Resistance and Sustaining Productivity in Rice-Oilseed Cropping System	Rachana Dubey	March 2024	Feb 2027	NASF

**Theme- 2. Genetic Resource Management and Improved Production Technologies**  
**Theme Leader: Head, FSRCHPR, Ranchi**

<b>4.0 Varietal Development</b>						
4.1	ICAR-RCER / HARP/ 2001/ 03	Plant genetic resource and improvement of fruit crops	M.K. Dhakar J. S. Choudhary D. Kherwar T.K. Koley Victor T.	2001	Long term	ICAR RCER
4.2	Umbrella project on Plant genetic resource and improvement of vegetable crops					
4.2.1	ICAR-RCER/ RC Ranchi / 2017/ 215	Genetic resource management of vegetable crops	P. Bhavana Awani K. Singh R. S. Pan V.K. Yadav J.S. Chaudhary A.K. Jha	Sept 2017	Long term project	ICAR RCER

			Meenu Kumari			
4.2.2	ICAR-RCER/RC Ranchi / 2021/ <b>278</b>	Evaluation of vegetable soybean for horticultural and nutritional traits	R S Pan Meenu Kumari Reshma Shinde Sujit Bishi (ICAR-IIAB, Ranchi)	July 2021	June 2026	ICAR-RCER
4.2.4	ICAR-RCER/DCR/ 2021/ <b>255</b>	Genetic enhancement of selected vegetable legumes for Eastern India	Kumari Shubha A.K. Choudhary A.K. Dubey R.S. Pan Kirti Saurabh	2021	2025 Extd. 2026	ICAR-RCER
4.3	ICAR-RCER/RC Ranchi / 2020/ <b>244</b>	Genetic enhancement of pigeon pea for yield and biotic stress resistance	P. Bhavana Kishor Tribhuvan (ICAR-IIAB) J S Choudhary A.K. Jha	June 2020	Dec 2025 Extd. June 2026	ICAR-RCER
4.4	--	IRRI NARES Breeding Network (Plant Direct) Project (Erstwhile Accelerated Breeding: Meeting Farmers Needs with Nutritious, Climate-Resilient Crops)	Santosh Kumar ( <i>PI for Plant breeding component</i> ) Rakesh Kumar ( <i>PI: Agronomy component</i> ) A K Dubey Sonaka Ghosh Arti Kumari	July 2022	Dec 2027	ICAR-IRRI
4.5		Evaluation and characterization of rice genotypes for tolerance to drought and submergence	Santosh Kumar Rachana Dubey Rakesh Kumar Abhay Kumar	July 2023	June 2026	ICAR-RCER
4.6		Studies on genetic variability and molecular marker associated with Maydis leaf blight in maize	P Bhavana A K Jha Santosh Kumar A K Dubey R Shinde Ganpati Mukri (IARI, New Delhi) Jayant S Bhat (IARI, RRC, Dharwad) Chikkappa G K, IIMR, Begusarai	2023	2027	ICAR-RCER

4.7	--	Building lentil growing community resilience by the development of climate smart lentil varieties through farmer's participatory interventions	A.K Choudhary Ghous Ali	2023	2026	DA &FW
4.8		Development of bio-fortified varieties of vegetables	Meenu Kumari R.S. Pan P. Bhavna Reshma Shinde Perna Nath T. L. Bhutia (ICAR-RC NEH Region)	Aug 2024	July 2029	ICAR-RCER
4.9		Evaluation, characterization and identification of high yielding finger millet genotypes for eastern India	N. Bhakta A.K. Choudhary Rakesh Kumar Santosh Kumar R.K. Raman A.K. Dubey	March 2024	Feb. 2028	ICAR-RCER
<b>5.0</b>	<b>Production Technologies</b>					
5.1	--	Creation of seed hubs for increasing indigenous production of pulses in India	A.K. Choudhary Ghous Ali Hari Govind (KVK, Buxar) Abhishek Kumar (Farm manager): Associate	2016	Dec 2025	ICAR
5.2		Utilization of major fruit seeds and underutilized fruits for development of	T K Koley M K Dhakar R K Raman Ujjwal Kumar Perna Nath Kirti Saurabh Saurabh Kumar	2023	2026	ICAR-RCER

		functional food products				
5.3		Processing and value addition of soybeans	Perna Nath R. S. Pan S. J. Kale (ICAR NISA)	Aug. 2024	July 2027	ICAR- RCER
5.4		Development of spineless cactus and MPTs based Silvi-pastoral system	Victor T. B.K. Jha R. K. Kamal Reshma Shinde	July 2024	June 2027	ICAR-RCER
5.5		Demonstration and conservation of minor gourds & drumstick in Jharkhand	Meenu Kumari P Bhavana R S Pan Awani K Singh	2024	2027	RKVY, Jharkhand
5.6		Processing & Value Addition of Jackfruit for Entrepreneurship Development in Jharkhand	Perna Nath M K Dhakar Sakharam Kale	2024	2027	RKVY, Jharkhand
5.7		Demonstration of fruit based multitier organic production system for small and marginal farmers Jharkhand.	S K Naik M K Dhakar Reshma Shinde JS Choudhary Awani K Singh	2024	2027	RKVY, Jharkhand
5.8		Popularization of potential underexploited leguminous vegetable crops for livelihood, income and nutritional security of farmers in Jharkhand	R S Pan V K Yadav MeenuKumari Perna Nath	2024	2027	RKVY, Jharkhand

5.9		Setting up of a referral lab for honey testing in Jharkhand	Prerna Nath J. S. Choudhary A K Jha S. J. Kale	2024	2026	RKVY, Jharkhand
5.10		Round the Year Demonstration of Vegetable Production Module with Precision cum Resource Conservation Technology for Doubling Income of Farmers in Eastern Hill & Plateau Region	B K Jha Santosh S Mali S K Naik J S Choudhary	2024	2027	RKVY, Jharkhand
<b>6.0</b>	<b>Protection Technologies</b>					
6.1	ICAR-RCER/RC Ranchi / 2021/ 273	Insect pest dynamics in litchi and their linking with digital tools for better management	J.S. Choudhary S.S. Mali M.K. Dhakar S.K. Mehta	July 2021	June 2026	ICAR-RCER
6.2	....	Management of false smut through modification in sowing dates and establishing disease relation with weather parameters	A.K. Dubey Santosh Kumar Manisha Tamta Ghous Ali	2022	2026	ICAR-RCER
6.3		Standardization and Demonstration of Interspecific grafting in solanaceous and cucurbitaceous vegetables for management of soil borne	P Bhavana Awani K Singh A K Jha Meenu Kumari	2024	2027	RKVY, Jharkhand

		diseases in Jharkhand				
<b>Theme- 3. Natural Resource Management for Enhancing Land &amp; Water Productivity</b>						
<b>Theme Leader: Head, Division of Land and Water Management</b>						
<b>7.0 Land &amp; Water Management</b>						
7.1	-	Umbrella project on floodplains of E. India				
7.1.1	ICAR-RCER/DCR/2020/252	Collection, evaluation and characterization of popular rice landraces in floodplains of eastern India.	N. Bhakta A. K. Dubey	July 2020	June 2024 Extd. Dec 2025	ICAR-RCER
7.2	---	Multiple use of water for enhanced agricultural productivity in eastern India	<b>Project leader-</b> Anup Das <b>PI-</b> A. Upadhyaya Ajay Kumar Arti Kumari Shivani T. K. Koley Ved Prakash Abhishek Kumar Rachana Dubey Pawan Jeet S. K. Ahirwal M. K. Tripathi <i>Associate</i> A.S. Mahapatra M. K. Sinha RK Meena	2023	2028	ICAR RCER
7.3	---	Evaluation of the diara ecosystem for sustainable food production	<b>Project leader-</b> Anup Das <b>PI-A.</b> Dey Abhay Kumar Sanjeev Kumar Md. Monobrullah N. Bhakta T. K. Koley Kamal Sarma R. K. Raman P. K. Sundaram Saurabh Kumar Kirti Saurabh Banda Sainath	2023	2026	ICAR RCER
7.4	---	Energy flow, C balance, and water footprint of	Bikash Sarkar P. K. Sundaram Rakesh Kumar S.S. Mali A Upadhyaya, Pawan Jeet	2023	2026	ICAR RCER

		dominant cropping system under different agro-ecological region of eastern India.	Kirti Saurabh			
7.5	--	Performance evaluation of Solar-powered pumping for Low Energy Pressurized Irrigation	Ajay Kumar A. Upadhyaya Ved Prakash Shivani	2023	2026	ICAR RCER
7.6		Evaluation of tillage and crop establishment methods on productivity, resource use efficiency and soil health in Rice and Millet based cropping system of Eastern Plateau and Hill Region.	S. K. Naik S. S. Mali J. S. Chaudhary Rakesh Kumar (Agronomy) B. K. Jha	2023	2028	ICAR RCER
7.7		Development of solar photovoltaic powered agricultural machineries	P.K. Sundaram Bikash Sarkar Pawan Jeet S.S. Mali Kamal Sarma A Dey Rakesh Kumar (DLFM)	2023	2026	ICAR RCER
7.8		Design and development of portable soil and water controlling device under field-to-field irrigation practice	Pawan Jeet Arti Kumari P. K. Sundaram Kirti Saurabh A. Upadhyaya	July 2024	June 2027	ICAR-RCER

7.9		Sensor-Based Lysimeter: Precise crop evapotranspiration estimation and stage-wise crop coefficient development for selected Crops	Arti Kumari Pawan Jeet P.K. Sundaram Ved Prakash Kirti Saurabh Shivani A. Upadhyaya	July 2024	June 2028	ICAR-RCER
<b>Theme-4. Livestock and Fisheries Management</b>						
<b>Theme Leader: Head, Division of Livestock and Fisheries Management</b>						
<b>8.0 Livestock and Avian Management</b>						
8.1	ICAR-RCER/DLFM/EF/2011/ 31	Network project on Buffalo improvement	P.C. Chandran Pankaj Kumar P.K. Ray Rakesh Kumar Rajni Kumari RK Raman Ramesh Kumar Tiwari (BASU) Chandrashekhar Azad (BASU) A.Dey (Associate)	June 2012	March 2026	ICAR-CIRB
8.2	--	AICRP on Goat Improvement	Shanker Dayal P.C. Chandran P.K. Ray M.K. Tripathi Rakesh Kumar R K Raman	July 2019	Mar 2027	ICAR
8.3	ICAR-RCER/DLFM / 2021/ 254	Reproductive abnormalities and associated common pathogens in special reference to Leptospirosis	Pankaj Kumar M.K. Tripathi A. Mukherjee Manish Kumar (IITG)	2021	2026	ICAR-RCER
8.4		Network project on Animal Genetic Resources (AnGR)	P. C. Chandran Reena Kamal A. Dey P. K. Ray Rajni Kumari Rakesh Kumar	2022	2026	ICAR-NBAGR
8.5	ICAR-RCER/DLFM	Effect of environmental exposure of	M.K. Tripathi Pankaj Kumar A. Dey	Jan, 2022	Dec, 2026	ICAR-RCER

	/ 2022/ <b>258</b>	arsenic in animals of Bihar	Kamal Sarma V. Bharti Arun Kumar (Mahavir Cancer Institute & Research Centre)			
8.6	ICAR-RCER/RC Ranchi / 2022/ <b>275</b>	Characterization & evaluation of chicken germplasm in eastern region	Reena K Kamal A. Dey P.C. Chandran Kanaka K K (IIAB)	2022	2026	ICAR-RCER
8.7	ICAR-RCER/DLFM / 2022/ <b>286</b>	Identification and characterization of common Zoonotic pathogens in domestic animals	Pradeep Kr Ray Jyoti Kumar P.C.Chandran Rakesh Kumar	2022	2026	ICAR-RCER
8.8	ICAR-RCER/DLFM / 2022/ <b>280</b>	Study of Genetic polymorphisms of candidate genes associated with production traits in Goats in Eastern Region.	Rakesh Kumar Shanker Dayal P.K. Ray MK Tripathi Rajni Kumari P C Chandran	2022	2026	ICAR-RCER
8.9	-	Assessment of ecosystem services rendered by indigenous livestock, poultry species & breed.	A. Dey P.C. Chandran R.K. Raman R. K. Kamal Rachana Dubey Banda Sainath	2023	2026	ICAR-RCER
8.10	ICAR-RCER/DLFM / 2023/ <b>282</b>	Status of fluorosis in livestock of Bihar and evaluating the ameliorative effect of nutraceuticals on affected cattle population	Pankaj Kumar Manoj K Tripathi Saurabh Kumar Vidya Shankar Sinha (KVK Harnaut)	2023	2026	ICAR-RCER

8.11	ICAR-RCER/DLFM / 2023/ 281	Transcriptome and metagenome approach to characterize the genetic basis of prolificacy in goat	Rajni Kumari A. Dey Shanker Dayal P.C. Chandran P.K. Ray Jyoti Kumar Manoj Tripathi Rakesh Kumar Ramesh Tiwary (BVC, Patna) Ramesh Pandit (GBRC, Gandhinagar), C G Joshi (GBRC, Gandhinagar)	2023	2026	ICAR-RCER
8.12		Impact of phytobiotics on health and productivity of Swine	R. K. Kamal P.C. Chandran Victor T. A Dey (Associate) P K Ray (Associate) Ganesh Aderao (IIAB) Nikhil (IIAB) Sudhanshu Shekhar, KVK, Ramgarh (Associate)	July 2024	June 2027	ICAR-RCER
<b>9.0 Fisheries Management</b>						
9.1	ICAR-RCER/DLFM / 2023/ 285	Standardization of culture techniques of Pabda fish in eastern region of India	Tarkeshwar Kumar Kamal Sarma S.K. Ahirwal V. Bharti	2023	2026	ICAR-RCER
9.2		Geospatial distribution and characteristics of microplastics in the riverine ecosystems of the Eastern Region India	V. Bharti Kamal Sarma T. Kumar S. K Ahirwal	2023	2026	ICAR-RCER

9.3		Assessment of wetland ecosystem services in food production	V. Bharti Tarkeshwar Kumar R K Raman Rachana Dubey Ghous Ali <i>Associate</i> Kirti Saurabh Saurabh Kumar	July 2024	June 2029	ICAR-RCER
9.4		Seed rearing potential of <i>Pangasianodon hypophthalmus</i> ( Sauvage, 1878) in biofloc system	Kamal Sarma T. Kumar V. Bharti S.K. Ahirwal	Aug 2024	July 2027	ICAR-RCER
<b>Theme- 5. Socio-Economics, Extension and Policy Research</b>						
<b>Theme Leader: Head, Division of Socio-Economics and Extension</b>						
10.1	--	Enhancing food, nutritional and livelihood security of marginal and tenant farmers in Jharkhand through need-based agricultural technologies	V.K. Yadav R.S. Pan A.K. Jha Reena K. Kamal S.K. Naik Anirban Mukherjee P. K. Sundaram N. K. Sinha (ICAR- NISA) Saumen Naskar (ICAR- IIAB)	June 2018	Mar 2026	Farmer FIRST Project (Externally funded)
10.2	--	Agri-Business Incubation Project	P. Bhavana Awani K Singh Ujjwal Kumar T.K. Koley B Debnath	2020	2025	NAIF
10.3	--	ITMU Project (NAIF Component I)	P. Bhavana A.K. Singh A Dey	2011	Long term	NAIF
10.4	ICAR-RCER/ DSEE/ 2021/ <b>245</b>	Impact of e-NAM on improving marketing of agricultural produce in eastern India	Dhiraj Kr Singh Abhay Kumar V.K. Yadav A. Mukherjee	2021	2024 Extd. Dec., 2025	ICAR-RCER
10.5	-	Sustainability of	VK Yadav A Mukherjee	2023	2026	ICAR-RCER

		FPO in eastern India	RK Raman Subhadeep Roy (ICAR-IIVR) Kaushik Pradhan (UBKV) Sujay Kademani (ICAR-IIAB)			
10.6	-	Assessing the impact of climate resilient agricultural interventions in enhancing farmers adaptive capacity in Bihar	A Mukherjee Dhiraj Kr Singh R K Raman Manisha Tamta Rakesh Kumar (Agronomy) Ujjwal Kumar Abhay Kumar Ramkewal (KVK Buxar) Ashok Kumar (KVK, Gaya) Banda Sainath	2023	2026	ICAR-RCER
10.7	-	Participatory Research Application for Year round income and Agricultural Sustainability (PRAYAS)	<b>Project leader</b> Anup Das <b>Nodal Officer</b> Bikash Sarkar <b>PI-P.K. Sundaram</b> B Debnath-Co-PI <b>CCPI</b> <b>Assam:</b> K. Sarma <b>Bihar:</b> P.K. Sundaram <b>Chhattisgarh:</b> B.K. Jha <b>Eastern UP:</b> Dhiraj Kr. Singh <b>Jharkhand:</b> S.S. Mali <b>Odisha:</b> S.K. Naik <b>West Bengal:</b> Bikash Sarkar	2023	2026	ICAR-RCER
10.8	-	Development of zero hunger and zero technology gap village through innovative interventions	<b>Project leader(s)</b> Anup Das Director, ICAR-RCER, Patna & Anjani Kumar, Director, ATARI, Patna <b>PI-</b> Dhiraj Kr. Singh <b>Team members:</b> Ujjwal Kumar Abhay Kumar Md. Monobrullah Rakesh Kumar (Agronomy) A Mukherjee	Oct 2023	Sep 2026	ATARI, Patna and ICAR- RCER, Patna

			RK Raman Arti Kumari Jyoti Kumar Kumari Shubha Amarendra Kumar (ATARI, Patna) Pragya Bhaduria (ATARI, Patna) Deokaran (KVK,Buxar) Ramkewal (KVK, Buxar)			
10.9	-	Sustainable improvement in livelihood of SC community in Meskaur and Sirdala block of Nawada district, Bihar	Dhiraj Kr Singh Ujjwal Kumar A. Mukherjee Shivani Rakesh Kumar Kumari Shubha P.C. Chandran R.K. Raman B. Sainath	Jan 2024	Dec 2026	DST
10.10	-	Building Resilience Model for the Vulnerability Hotspot to Climate change in Small holder Dairy Production System of Indo Gangetic plains Region of India Using GIS and Fuzzy Cognitive Mapping Approach	Anirban Mukherjee Abhay Kumar Pankaj Kumar Kumari Shubha MK Tripathi Banda Sainath Rakesh Kumar (D LFM) B Debnath	Sept 2023	Sept 2026	NASF
10.11		Unlocking Green Gains: Assessment of voluntary carbon credit potential in Bihar	Banda Sainath A Mukherjee Rachana Dubey Ujjwal Kumar Abhay Kumar Dhiraj Kr. Singh R.K. Raman Ramkewal (KVK Buxar)	July 2024	June 2027	ICAR-RCER

10.12		Round the Year Demonstration of Vegetable Production Module with Precision cum Resource Conservation Technology for Doubling Income of Farmers in Eastern Hill & Plateau Region	B K Jha Santosh S Mali S K Naik J S Choudhary	2024	2027	RKVY Jharkhand
10.13		Strengthening Farmer Producer Organization Model for Economic Security of Marginal and Small Farmers in Jharkhand	V K Yadav Sujay Kademani (ICAR-IIAB)	2024	2026	RKVY Jharkhand
10.14		Developing Simulation Model of Technology Diffusion (TechSIM), Adoption & Impact for Forecasting using Techno-socio-psycho-economic-ecological Factors.	A Mukherjee	2025	2027	NASF
10.15		Supply Chain of Pulses in Major Pulse Producing States of India with Focus on Eastern States	A Mukherjee	2025	2026	Ministry of Consumer Affairs, Food & Public Distribution, GoI

