

CALL IX

S. No.	Project Details	Duration
1.	Development of vaccine against animal's haemoprotozoan parasites for mitigating biotic stress PI: Dr Sanjay Kumar, ICAR-NRC Equines, Hisar	Jun 2022-Dec 2025
2.	Discovery of novel genes and QTLs conferring resistance to ToLCNDV disease from indigenous sources, genome-wide transcriptional dynamics and allele mining of the candidate genes in Cucurbitaceous vegetables PI: Dr Shyam Sundar Dey, ICAR-IARI, New Delhi	Jun 2022-Nov 2025
3.	Development and evaluation of genetically engineered vaccine candidates for African swine fever, Equine Herpes virus-1 and Equine Influenza (clade 1 & 2) PI: Dr K. Rajukumar, ICAR-NIHSAD, Bhopal	Jul 2022- Dec 2025
4.	A comparative metabolomics approach for the analyses of scab-disease resistance in apple and development of a metabolite-based non-invasive sensor for early scab-disease diagnosis PI: Dr Debabrata Sircar, IIT, Roorkee	Jul 2022- Dec 2025
5.	A detailed Foodomics study for food authentication and exploration of nutraceutical potential PI: Dr Sharmistha Naik, ICAR-NRC for Grapes, Pune	Jul 2022- Dec 2025
6.	Metabolomics fingerprinting of body fluids for development of a metabolite-based novel semen extender for enhancing fertility of bull sperm and diagnostic assays for detection of sub-clinical hemoprotozoan diseases in cattle. PI: Dr Sudhir C Roy, ICAR-NIANP, Bangalore	Aug 2022-May 2026
7.	Marker-assisted stacking of yellow mosaic disease resistance, null Kunitz trypsin inhibitor, null lipoxygenase-2 genes, and broadening the genetic base of soybean PI: Dr Vineet Kumar, ICAR-IISR, Indore	Aug 2022-Jan 2026
8.	CRISPR Crop Network: Targeted improvement of stress tolerance, nutritional quality and yield of crops by using genome editing PI: Dr Viswanathan Chinnusamy, ICAR-IARI, New Delhi	Aug 2022-Dec 2026
9.	Development of a minimal water retting technology of jute PI: Dr Avijit Das, ICAR-NINFET, Kolkata	Sep 2022-Aug 2025
10.	Project title: Development of e-extension modules for capacity building in livestock farming PI: Dr Prakash Kumar Rathod, KVAFSU, Bidar	Sep 2022-Aug 2025
11.	Genome-wide association studies in giant freshwater prawn, <i>M. rosenbergii</i> : Linkage mapping and QTL identification PI: Dr Lakshman Sahoo, ICAR-CIFA, Bhubaneswar	Sep 2022-Aug 2025
12.	Traceable Value Chain for safe pork in the North Eastern Region of India PI: Dr Pranab Jyoti Das, ICAR-NRC on Pig, Guwahati	Sep 2022-Feb 2026
13.	Identification and characterization of fungal effectors and host factors in rice- false smut pathosystem PI: Dr Ladhalakshmi, ICAR-IIRR, Hyderabad	Sep 2022-Aug 2025

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14.	Hyperspectral reflectance and multi-nutrient extractant based rapid assessment of soil properties for sustainable soil health in India PI: Dr Priyabrata Santra, ICAR-CAZRI, Jodhpur	Sep 2022-Feb 2026
15.	Artificial Intelligence and IoT based Smart Vet Ecosystem for Animal Health, Patient Care and Precision Livestock Farming PI: Dr P. Selvaraj, TNVASU, Chennai	Jan 2023-Dec 2025
16.	Development of fluorescent and resistive sensors for monitoring the crop health via detection of plant emitted Volatile Organic Compounds (VOCs) PI: Dr Rajeswara Rao M, IIT, Dharwad	Jun 2023-May 2026
17.	Development of unmanned robotic ground vehicle for safe spray application of agrochemicals PI: Dr Brajesh Nare, ICAR- CPRI, Shimla (RS Jalandhar)	Jun 2023-May 2026
18.	The changing dynamics of labour migration on employment, livelihoods and resource productivity patterns in Indian marine fisheries sector PI: Dr Shyam S Salim, ICAR-CMFRI, Kochi	Jun 2023-May 2026
19.	Sensor-based integrated vertical farming for horticultural crops and aquaponic system PI: Dr Murtaza Hasan, ICAR-IARI, New Delhi	Jun 2023-May 2026
20.	Agripreneurship for sustainable agricultural development: Technological and Institutional innovations and strategies PI: Dr P. Venkatesan, ICAR- NAARM, Hyderabad	Jun 2023-May 2026
21.	Global Value Chain analysis of plantation crops of India with special emphasis on food safety standards PI: Dr Jayasekhar S, ICAR-CPCRI, Kasaragod	Jun 2023-May 2026
22.	Development and Demonstration of AI enabled Weather and Market Information-based Decision Support System (FARWM-DS) for sustainable farm productivity & profitability and evolve profitable cropping pattern PI: Dr Shrishail Dolli, UAS, Dharwad	Jun 2023-May 2026
23.	Design and development of solar-powered prime mover with multi-tool attachments for small farm holdings PI: Dr R. Mahendiran, TNAU, Coimbatore	Jun 2023-May 2026
24.	Evaluation and refinement of biofloc-based new-age farming technology through effective microbial management, recirculation and input optimization for sustainable intensification across different aquaculture systems PI: Dr Akshaya Panigrahi, ICAR-CIBA, Chennai	Jun 2023-May 2026
25.	Development of smart foods, bio-composites, green packaging and bio-energy from Agro-residues PI: Dr Suresh Paramasivam, ICAR-NRC for Banana, Tiruchirappalli	Jun 2023-May 2026
26.	Building resilience model for the vulnerable hotspots to climate change in smallholder dairy production system of Indo-Gangetic Plain Region of India using GIS and fuzzy cognitive mapping approach PI: Dr Sanjit Maiti, ICAR-NDRI, Karnal	Sep 2023-Aug 2026

