

## CALL IX

S.NO.	PROJECT DETAILS	DURATION
1.	Project title: 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.	Project title: 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.	Project title: 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.	Project title: 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.	Project title: 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.	Project title: 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	August 2022 – May 2026
7.	Project title: Marker assisting 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.	Project title: 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., 2025
9.	Project title: 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.	Project title: 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.	Project title: 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.	Project title: Identification and characterization of fungal effectors and host factors in rice- false smut pathosystem PI: Dr. Ladhalakshmi, ICAR-IIRR, Hyderabad	Sep., 2022 - Aug., 2026

14.	Project title: 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.	Project title: 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.	Project title: 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.	Project title: 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.	Project title: 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.	Project title: Sensor based integrated vertical farming for horticultural crops and aquaponic system PI: Dr. Murtaza Hasan, ICAR-IARI, New Delhi	Jun., 2023 - May 2026
20.	Project title: Agripreneurship for Sustainable Agricultural Development: Technological and Institutional Innovations and Strategies PI: Dr. P. Venkatesan, ICAR- NAARM, Hyderabad	Jun., 2023 - May 2026
21.	Project title: 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.	Project title: 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.	Project title: 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.	Project title: 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.	Project title: 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.	Project title: 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

## CALL X

S.NO.	PROJECT DETAILS	DURATION
1.	Project title: Deployment of genetic and chemical options for the management of major biotic ( <i>Orobanche</i> and <i>Alternaria</i> ) stresses in Indian mustard PI: Dr. R. S. Jat, ICAR-DRMR, Bharatpur	Mar., 2024 – Feb., 2027
2.	Project title: Enhancing Abiotic Stress Tolerance in Wheat and Pearl Millet: Insights from Integrated Epigenetic, Physiological and Molecular Interventions PI: Dr. S. Barthakur, ICAR-NIPB, New Delhi	Mar., 2024 – Feb., 2027
3.	Project title: Developing genomic selection strategy for accelerating breeding program in perennial fruit crops grape, guava and mango PI: Dr. Anuradha Upadhyay, ICAR-NRCG, Pune	Mar., 2024 – Feb., 2027
4.	Project title: Environmental and nutritional intervention to farm white leg shrimp, <i>Penaeus vannamei</i> in low saline water (LSW): A strategy for improving aquaculture production PI: Dr. Sukham Munilkumar, ICAR-CIFE, Mumbai	Mar., 2024 – Feb., 2027
5.	Project title: Elucidation of molecular mechanism of captive reproduction of <i>Clarias dussumieri</i> and derive relevant molecular cues for successful induced spawning of male <i>Clarias magur</i> PI: Dr. Rupam Sharma, ICAR-CIFE, Mumbai	Mar., 2024 – Feb., 2027
6.	Project title: Developing novel therapeutic strategies for mitigating antimicrobial resistance bio-nano sulphur formulation of methanotrophs for decarbonisation, disease resistance and sustaining productivity in rice-oilseed cropping system PI: Dr. Pratap Bhattacharyya, ICAR-NRRI, Cuttack	Mar., 2024 – Feb., 2027
7.	Project title: The development of a handheld sensor technology for non-destructive quality prediction of two economically important medicinal plants and the improvement of their quality PI: Dr. R. Nagaraja Reddy, ICAR-DMAPR, Anand	Mar., 2024 – Feb., 2027
8.	Project title: Development, standardisation, and optimisation of microbial and botanical pesticides and their formulations as efficient delivery systems for the management of agricultural, stored grain pests, nematodes and tick parasites PI: Dr. Amrish Agrawal, IPFT, Gurugram	Mar., 2024 – Feb., 2027
9.	Project title: Estimation of chemical quality parameters of Cinchona, jute and allied fibres by fluorescence and NIR sensors and development of portable sensor instruments with thrust on fluorometry PI: Dr. Rajib Bandyopadhyay, Jadavpur University, Kolkata	Mar., 2024 – Feb., 2027
10.	Project title: Natural grassland ecosystem monitoring system for peninsular and Trans Himalayan India to sustain pastoral communities PI: Dr. Avijit Ghosh, ICAR-IGFRI, Jhansi	Mar., 2024 – Feb., 2027
11.	Project title: Development of infectious clone, point-of-care diagnostics and transcriptome profiling for apple ( <i>Malus domestica</i> ) exhibiting mosaic disease associated with apple necrotic mosaic virus in Northwestern Himalayan region of India PI: Dr. Sajad Un Nabi, ICAR-CITH, Srinagar	Mar., 2024 – Feb., 2027
12.	Project title: Development and evaluation of robotic harvester for grape bunches	Mar., 2024 – Feb., 2027

	PI: Dr. Syed Imran S, ICAR-CIAE, Regional Station, Coimbatore	
13.	Project title: Development of a novel Strategy for the detection and tackling of antimicrobial-resistant (AMR) Mastitis pathogens in dairy animals and the environment using nanotechnology PI: Dr. Raghu H. V, ICAR-NDRI, Karnal	Mar., 2024 – Feb., 2027
14.	Project title: Expanding breeding window of IMC ( <i>Labeo catla</i> ) for year-round seed availability PI: Dr. P. Routray, ICAR-CIFA, Bhubaneswar	Mar., 2024 – Feb., 2027
15.	Project title: Development of Taluka scale precise crop yield prediction application for selected districts of Gujarat using remote sensing, AI and machine learning PI: Dr. Parthsarathi A. Pandya, JAU, Junagadh	Mar., 2024 – Feb., 2027
16.	Project title: Point-of-care nanobiosensors for antibiotic residue detection in fish PI: Dr. D. J. Sarkar, ICAR-CIFRI, Barrackpore	Mar., 2024 – Feb., 2027
17.	Project title: <i>In vitro</i> production of oocyte- and spermatozoa-like cells from pluripotent stem cells of farm animals PI: Dr. Manoj Kumar Singh, ICAR-NDRI, Karnal	Mar., 2024 – Feb., 2027
18.	Project title: Deciphering agricultural soil microbes for sustainable management of lignocellulosic wastes and bioremediation of chlorpyrifos (DT50) contaminated sites PI: Dr. G.P. Jagtap, VNMKV, Parbhani	Mar., 2024 – Feb., 2027
19.	Project title: Integrating whole genome resequencing, transcriptome sequencing and genome wide association analysis for allele mining of yield and quality traits in Black pepper and Cardamom PI: Dr. Sheeja TE, ICAR-IISR, Kozhikode	Mar., 2024 – Feb., 2027
20.	Project title: Deciphering the genetic basis of lower susceptibility of indigenous cattle to bovine anaplasmosis PI: Dr. Sonika Ahlawat, ICAR-NBAGR, Karnal	April 2024 – Mar., 2027
21.	Project title: Artificial intelligence enabled biotic & abiotic stress detection and advisory mobile application for crops PI: Dr. Sudeep Marwaha, ICAR-IASRI, New Delhi	April 2024 – Mar., 2027
22.	Project title: Effects of abiotic and biotic factors on secondary metabolite profiles of <i>Rauvolfia serpentina</i> and <i>Tribulus terrestris</i> : Optimizing cultivation strategies in different agro-climatic regions of India PI: Dr. Sharad Srivastava, CSIR- NBRI, Lucknow	April 2024 – Mar., 2027
23.	Project title: Comparative study on carbon dynamics and functional rhizosphere microbial biomass of agroforestry systems in dry-and wet-tropical climatic situations PI: Dr. Badre Alam, ICAR-CARI, Jhansi	April 2024 – Mar., 2027
24.	Project title: Development of multimedia-based pedagogy models and modules for agricultural extension and education PI: Dr. Girijesh Singh Mahra, ICAR-IARI, New Delhi	Aug. 2024 – July 2027
25.	Project title: Developing Indices for the agricultural innovation ecosystem to sustain the growth paradigms of agricultural systems PI: Dr. Ram Datt, RPCAU, Pusa, Samastipur	Aug. 2024 – July 2027
26.	Project title: Potential of crop residues in NEH region – A circular economy perspective for sustainable livelihood PI: Dr. Anupama Mishra, CAU, Imphal	Aug. 2024 – July 2027

27.	Project title: Strengthening the agri- horticulture systems for the socio-economic development of the rural communities in the Western Himalayan ecosystem PI: Dr. Indra Dutt Bhatt, GBP-NIHE, Almora	Aug. 2024 – July 2027
28.	Project title: Developing a simulation model of technology diffusion (TechSIM), adoption & impact for forecasting using techno-socio-psycho-economic-ecological factors PI: Dr. GAK Kumar, ICAR – NRRI, Cuttack	Aug. 2024 – July 2027

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