

CALL X

S. No.	Project Details	Duration
1.	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.	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.	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.	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.	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.	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.	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.	Development, standardisation, and optimisation of microbial and botanical pesticides and their formulations as efficient delivery systems for the management of agricultural and stored-grain pests, nematodes and tick parasites PI: Dr Amrish Agrawal, IPFT, Gurugram	Mar 2024- Feb 2027
9.	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.	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.	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

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12.	Development and evaluation of robotic harvester for grape bunches PI: Dr Syed Imran S, ICAR-CIAE, Regional Station, Coimbatore	Mar 2024- Feb 2027
13.	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.	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.	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.	Point-of-care nanobiosensors for antibiotic residue detection in fish PI: Dr D. J. Sarkar, ICAR-CIFRI, Barrackpore	Mar 2024- Feb 2027
17.	<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.	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.	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.	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.	Artificial intelligence enabled biotic & abiotic stress detection and advisory mobile application for crops PI: Dr Alka Arora, ICAR-IASRI, New Delhi	April 2024- Mar 2027
22.	Effects of abiotic and biotic factors on secondary metabolite profiles of <i>Rauvolfia serpentine</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.	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.	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.	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

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26.	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.	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.	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

Call XI

S.No.	Project Details	Duration
1.	Harnessing genetic potential of underutilized wheat germplasm through prebreeding for biotic stress resilience PI: Dr (Mrs.) Vijay Rana, CSKHPKV, Palampur	Nov 2025-Oct 2028
2.	Pan-genome analysis of common bean (<i>Phaseolus vulgaris</i> L.) genotypes from the Northern Himalayan Region for enhanced disease resistance and agronomic performance PI: Dr Susheel Sharma, SKUAST, Jammu	Nov 2025-Oct 2028
3.	Pangenome delineation and genome-wide association studies for NLRome and structural variation for seed sterility mapping in ginger (<i>Zingiber officinale</i> Roscoe) PI: Dr D. Prasath, ICAR- IISR, Kozhikode	Nov 2025-Oct 2028
4.	Novel gene(s) discovery for drought and salinity tolerance using genome-wide association analysis and multi-omics studies in Dinanath grass (<i>Pennisetum pedicellatum</i>) PI: Dr Shashikumara, ICAR-IGFRI, Jhansi	Nov 2025-Oct 2028
5.	Deciphering the candidate genes and molecular mechanisms underlying for high tillering ability and dwarfness in Samundchini rice Mutant-S49 through integrated omic approaches PI: Dr Parmeshwar K. Sahu, IGKV, Raipur	Nov 2025-Oct 2028
6.	Development and validation of recombinant multivalent porcine viral vaccine and DIVA diagnostics PI: Dr T. K. Rajkhowa, CAU (Imphal), Selesih, Aizawl	Nov 2025-Oct 2028
7.	Advancing Nipah virus control: combined surveillance and diagnostic tool development for pigs PI: Dr Vishal Rai, ICAR-NRC on Pig, Rani	Nov 2025-Oct 2028
8.	Development and application of recombinase polymerase amplification (RPA)-based visual detection method for zero-tolerant bacterial pathogens in commercially important seafood PI: Dr Manjusha L., ICAR-CIFE, Mumbai	Nov 2025-Oct 2028
9.	Preformed sprayable biopolymeric mulch to enhance nutrient use efficiency in oilseed crops PI: Dr KSVP Chandrika, ICAR-IIOR, Hyderabad	Nov 2025-Oct 2028
10.	Exploring the potential of machine learning, big data analytics and remote sensing for soil health monitoring in Indian agro-ecosystems PI: Dr Nishant K Sinha, ICAR-IISS, Bhopal	April 2026-Mar 2029
11.	Development of synthetic microbial community-based nano-biofertilizers for sustainable crop production. PI: Dr Sudisha Jogaiah, CUK, Kasaragod	April 2026-Mar 2029
12.	Estimating the payoff to ICAR's research investment in post-harvest mechanization solutions of India PI: Dr Soumya Mohapatra, ICAR-CIPHET, Ludhiana	April 2026-Mar 2029

S.No.	Project Details	Duration
13.	Strengthening research-extension-farmer linkages: inclusive evaluation and strategic solutions for diverse agro-climatic regions PI: Dr Sitaram Bishnoi, ICAR-IARI, New Delhi	April 2026-Mar 2029
14.	Impact assessment of NASF-funded projects PI: Dr Subash S.P., ICAR-NIAP, New Delhi	May 2026-April 2027