List of New Research Projects Funded under Central Corpus Fund

1. Central Corpus Fund-Young Scientist Projects (CCF-YSP)

S.No.	Project Details	Duration
1.	Eco-friendly extraction of the high-value chemicals - lignin and furfural, from groundnut shells for use in food and chemical industries PI: Dr. Anirban Dutta, ICAR-NISA, Ranchi	Jan 2026-Dec 2028
2.	Machine learning based maturity detection device for jackfruit using electrical impedance method PI: Dr. Dilip Pawar, ICAR-CIAE, Bhopal	Jan 2026-Dec 2028
3.	Development of functional foods from cashew apple PI: Dr. Veena, G., ICAR-DCR, Puttur	Jan 2026-Dec 2028
4.	Novel dispersive solid-phase extraction clean-up kit for pesticide residue analysis in horticultural matrices PI: Dr. Abhishek Mandal, ICAR-IIHR, Bengaluru	Jan 2026-Dec 2028
5.	Elucidating the molecular basis of compound panicles for yield improvement in cardamom PI: Dr. Akshitha, K.H., ICAR-IISR, Kozhikode	Jan 2026-Dec 2028
6.	Novel mutants in guava for enhanced seed mellowness PI: Dr. Chavlesh Kumar, ICAR-IARI, New Delhi	Jan 2026-Dec 2028
7.	Quality and yield enhancement of fruit crops with bio-stimulants and microbial diversity analysis under organic farming in Sikkim PI: Dr. Sudip K Dutta, ICAR-RC NEH Region, Sikkim Centre, Gangtok	Apr 2026-Mar 2029
8.	Breeding for export quality pickling cucumber (gherkin) PI: Dr. Vivek Hegde, ICAR-IIHR, Bengaluru	Jan 2026-Dec 2028
9.	Introgression of powdery mildew in vegetable pea using marker assisted back cross breeding PI: Dr. Jyoti Devi, ICAR-IIVR, Varanasi	Jan 2026-Dec 2028
10.	Bioethanol production from storage discarded potatoes PI: Dr. Dharmendra Kumar, ICAR- CPRI, Shimla	Jan 2026-Dec 2028
11.	Mapping of QTLs for downy mildew resistance in cucumber using QTL-seq and RNA-seq analysis PI: Dr. Vidya Sagar, ICAR-IIVR, Varanasi	Jan 2026-Dec 2028
12.	Gendered vulnerability and livelihood resiliency of mandarin growers: outlining the pathways for women empowerment PI: Dr. Sujit Sarkar, ICAR-IARI, RS (Kalimpong), West Bengal	Jan 2026-Dec 2028
13.	Impact assessment of maize-based ethanol production on farmer's income, cropping pattern and market demand & supply PI: Dr. Jaiprakash Bisen, ICAR-NIAP, New Delhi	Jan 2026-Dec 2028
14.	Deciphering the role of agroforestry in wheat terminal heat stress management	Jan 2026-Dec 2028

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	PI: Dr. Sushil Kumar, ICAR-CAFRI, Jhansi	
15.	Site-specific recharge of overexploited aquifers for groundwater resource augmentation PI: Dr. Jitendra Rajput, ICAR-IARI, New Delhi	Jan 2026-Dec 2028
16.	Optimal integration of additional features in genomic prediction model vis AI/ML Framework: A comprehensive investigation PI: Dr. Neeraj Budhlakoti, ICAR-IASRI, New Delhi	Jan 2026-Dec 2028
17.	Leveraging artificial intelligence to study pesticidal activity of the plant-derived small molecules PI: Dr. Sneha Murmu, ICAR-IASRI, New Delhi	Jan 2026-Dec 2028
18.	Development of certified reference materials (CRM) for genetic identification of economically important meat species to combat food fraud PI: Dr. Vishnuraj M R, ICAR-NMRI, Hyderabad	Jan 2026-Dec 2027
19.	Development of pen-side test for diagnosis and surveillance of Japanese encephalitis (JE) in Pigs PI: Dr. Chethan Kumar H.B, ICAR-NIVEDI, Bengaluru	Jan 2026-Dec 2028
20.	Unravelling host genomics for enhanced immune response against CSF vaccination PI: Dr. Satish Kumar, ICAR-NRC Pig, Guwahati	Jan 2026-Dec 2028
21.	Development of a point-of-care lateral flow assay kit for ovulation detection in horses PI: Dr. Muhammed Kutty V.H., ICAR-NRCE, Hisar	Jan 2026-Dec 2028
22.	Development of immune organoids for ex-vivo adaptive immune responses of vaccine in animals PI: Dr. Shyma K. Latheef, ICAR-IVRI, Izatnagar	Jan 2026-Dec 2028
23.	Development of aptamer lateral flow assay for rapid and sensitive detection of aflatoxin M1 in milk PI: Dr. Kamal Gandhi, ICAR-NDRI, Karnal	Jan 2026-Dec 2028
24.	Development of a novel spray drying based progesterone nanoencapsulation for estrus synchronization in dairy cattle PI: Dr Vedamurthy GV, ICAR-NDRI, SRS Bengaluru	Jan 2026-Dec 2028
25.	Unravelling the reason behind craving for salt by Mithun through mineral profiling in North-east Region (NER) PI: Dr. L. Sunitibala Devi, ICAR-NRC Mithun, Nagaland	Jan 2026-Dec 2028
26.	Development of SNP array for identification of genetically improved rohu, 'Jayanti' and validation in Indian rohu populations PI: Dr. Priyanka C Nandanpawar, ICAR-CIFA, Bhubaneshwar	Jan 2026-Dec 2028
27.	Development of live attenuated polyvalent vaccines against motile *Aeromonas septicemia* through in-frame deletion mutation constructs for sustainable freshwater aquaculture production and improved fish welfare PI: Dr. Rakesh Das, ICAR-CIFA, Bhubaneshwar	Jan 2026-Dec 2028
28.	Development of Nanoemulsion-based herbal	Jan 2026-Dec 2028

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	therapeutics for the effective management of *Enterocytozoon hepatopenaei* (EHP) in Shrimp Culture PI: Dr. T Sathish Kumar, ICAR-CIBA, Chennai	
29.	Production of donor derived superior offspring through intra-species allogenic transplantation of germ cell in surrogate Pearlspot (*Etroplus suratensis*) A novel approach for speed breeding in brackishwater finfishes PI: Dr. Aritra Bera, ICAR-CIBA, Chennai	Jan 2026-Dec 2028
30.	Optimization of rearing system and feeding strategies for stockable seed production of mud crab, *Scylla* sp. PI: Dr. Raymond Jani Angel, ICAR-CIBA, Chennai	Jan 2026-Dec 2028
31.	Seaweeds, the marine macroalgae and millets, the underutilized nutricereals for development of next generation edible packaging films and synbiotic functional foods: A novel eco-sustainable approach PI: Dr. Remya S, ICAR-CIFT, Kochi	Jan 2026-Dec 2028
32.	Value addition of untapped agricultural by-products to produce protein concentrate for marine food fish diet: Nutrigenomic approach to understanding the real-time expression of metabolism, growth and immune genes PI: Dr. Linga Prabu, ICAR-CMFRI, Kochi	Jan 2026-Dec 2028
33.	Synergistic microbial consortium to remediate plastic pollution from the aquatic environment PI: Dr. Vikash Kumar, ICAR-CIFRI, West Bengal	Jan 2026-Dec 2028
34.	Molecular mechanisms of fish adaptations in polluted wastewater wetlands and develop biomarkers for fish and environmental health management PI: Dr. Suvra Roy, ICAR-CIFRI, West Bengal	Jan 2026-Dec 2028
35.	Development of recombinant gonadotropin protein as a spawning-inducing agent for *Channa striata* PI: Dr. Kiran Dashrath Rasal, ICAR-CIFE, Mumbai	Jan 2026-Dec 2028
36.	Visualization of molecular dynamics of host-parasite interaction between sea lice and pearlspot (*Etroplus suratensis*) using dual transcriptomics approach PI: Dr. Arun Sudhagar S, ICAR-NBFGR, Lucknow	Jan 2026-Dec 2028
37.	Investigation of epigenetic variations in changing landscapes and exploring modulation methods in rainbow trout PI: Dr. Ananya Khatei, ICAR-CICFR, Bhimtal	Jan 2026-Dec 2028
38.	Refining QTL intervals and investigating the molecular mechanisms conferring resistance to fusarium wilt (FW) and sterility mosaic disease (SMD) in Pigeonpea PI: Dr. Shanmugavadivel, P.S., ICAR-IIPR, Kanpur	Jan 2026-Dec 2028
39.	Developing high biomass and multicut pearl millet genotypes following haplotype-based breeding suitable for summer season PI: Dr. Shashikumara, ICAR-IGFRI, Jhansi	Jan 2026-Dec 2028
40.	Mapping of novel genomic regions associated with low phosphorus tolerance in rice through GWAS PI: Dr. Reshmi Raj K.R, ICAR-CRRI, Cuttack	Jan 2026-Dec 2028

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41.	Durable management of yellow mosaic disease of mungbean by double stranded RNA immunization and identification of proviral factors for targeted genome editing PI: Dr. Susheel Kumar, ICAR-IARI, New Delhi	Jan 2026-Dec 2028
42.	Constructing an inter-generic map and understanding the inter-genomic dynamics in the early-generation *Brassica juncea* introgression lines developed using Brassica wild species PI: Dr. Mahesh Rao, ICAR-NIPB, New Delhi	Jan 2026-Dec 2028
43.	Deciphering genomic regions of key basmati traits through resequencing PI: Dr. Ranjith Ellur, ICAR-IARI, New Delhi	Jan 2026-Dec 2028
44.	Genome-wide association and transcriptomic analyses for the identification of genomic regions governing premature flowering and waterlogging tolerance in tossa jute (*Corchorus olitorius*) PI: Dr. Tribhuvan R., ICAR-CRIJAF, Kolkata	Jan 2026-Dec 2028
45.	Accelerated development of high oil multivitamin-rich maize hybrids for enhanced bioavailability, high energy, and industrial applications PI: Dr. Vignesh M., ICAR-IARI, New Delhi	Jan 2026-Dec 2028
46.	Manipulation of pollen associated transmission of genetic and non-genetic traits for maize improvement PI: Dr. Alla Singh, ICAR-IIMR, Ludhiana	Jan 2026-Dec 2028
47.	Development of cold plasma as a novel alternative technology for elimination of quarantine significant seed borne pathogens from cereals PI: Dr. Bhaskar Bajaru, ICAR-NBPGR, RS, Hyderabad	Jan 2026-Dec 2028
48.	Cloning and functional characterization of a novel class of brown-planthopper (BPH) resistance gene, a serine/threonine-protein kinase receptor (OsSTPKR) in rice PI: Dr. Papa Rao Vaikuntapu, ICAR-IIRR, Hyderabad	Jan 2026-Dec 2028
49.	Field diagnostics of resistance in brown planthopper, *Nilaparvata lugens* (Stal) against recommended insecticide molecules PI: Dr. Rajna S., ICAR-IARI, New Delhi	Jan 2026-Dec 2028
50.	Development of soybean yellow mottle mosaic virus-based gene expression and silencing vector for functional genomics studies in legumes PI: Dr. Nagamani S., ICAR-IARI, New Delhi	Jan 2026-Dec 2028

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2. Central Corpus Fund-Product Development Project (CCF-PDP)

1.	Consolidating wheat and maize yield under changing climate condition through development and up scaling of environmentally sustainable indigenous technologies including improved varieties/hybrids: A self-sustainable system of project funding PI: Dr. Rajbir Yadav, ICAR-IARI, New Delhi	Apr 2026-Mar 2029

3. Central Corpus Fund-High Priority and Contingency Project (CCF-HPCP)

1.	Project Title: Development of an automated climate intelligence and preparedness system (BIKAS – Bharat Krishi Climate Intelligence & Preparedness System) & block level climate risk assessment & agriculture contingency plans PI: Dr. K.V. Rao, ICAR-CRIDA, Hyderabad	Oct 2026- Sept 2028

4. Central Corpus Fund-National Priority Project (CCF-NPP)

1.	UAV-based precision monitoring and management of diseases in soybean crop PI: Dr. Ramesh Kumar Sahni, ICAR–CIAE, Bhopal	Oct 2026-Sept 2029
2.	Development of a tractor front mounted three row pearl millet harvester PI: Dr. Ajay Roul, ICAR-CIAE, Bhopal	Oct 2026- Sept 2029
3.	Development of chlorophyll index embedded soil-plant-environment monitoring system for precision nitrogen management PI: Dr. N S Chandel, ICAR-CIAE, Bhopal	Oct 2026-Sept 2029
4.	Molecular basis of nematode-fusarium wilt disease complex interaction and management strategies for guava wilt disease complex PI: Dr. Vishal Singh Somvanshi, ICAR-IARI, New Delhi	Oct 2026- Sept 2029
5.	Climate-responsible bio-suppression of exotic whitefly invasions on coconut PI: Dr. A. Joseph Rajkumar, ICAR-CPCRI, RS, Kayamkulam	Oct 2026-Sept 2029
6.	Fine mapping and marker-assisted introgression of extended post-harvest shelf-life in cucumber PI: Dr. Shyam Sundar Dey, ICAR-IARI, New Delhi	Oct 2026-Sept 2029
7.	Mainstreaming of native plants, Pteridophyte and orchids diversity for diverse commercial uses in aesthetics (Bio-wall) PI: Dr. Sumangala H.P, ICAR-IIHR Bengaluru	Oct 2026-Sept 2029

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8.	Gene pyramiding and discovery of novel genes for bacterial wilt resistance in tomato PI: Dr. Prasanna H.C., ICAR-IIHR, Bangalore	Oct 2026-Sept 2029
9.	Analyses of value chain dynamics in climatically vulnerable food systems PI: Dr. Vipinkumar V P, ICAR-CMFRI, Kochi	Oct 2026-Sept 2029
10.	Digitally enabled Farmer-to-Farmer Learning Networks (FFLN) for enhancing nutritional security: Co-creation approach PI: Dr. Subhashree Sahu, ICAR-IARI, New Delhi	Oct 2026- Sept 2029
11.	Frontline Extension System (FES) for climate change induced livelihood vulnerability: Interventions pathways in hazard-prone coastal ecosystem PI: Dr. Sudipta Paul, ICAR-CRRI, Cuttack	Oct 2026-Sept 2029
12.	Demand driven extension and advisory service provision in agriculture: Policy roadmap PI: Dr. Vinayak R. Nikam, ICAR-NIAP, New Delhi	Oct 2026-Sept 2029
13.	Agricultural production diversity, nutrition and climate change nexus PI: Dr. Jaya Jumrani, ICAR-NIAP, New Delhi	Oct 2026-Sept 2028
14.	Climate change and multiple stressors: Knowledge Co-production in building resilience among smallholder dairy farmers PI: Dr. Sanjit Maiti, ICAR-NDRI, Karnal	Oct 2026-Sept 2029
15.	Climate resilient water management and yield-emission-ecosystem framework for enhancing soil health and water productivity PI: Dr. P.S. Brahmanand, ICAR-IARI, New Delhi	Oct 2026-Sept 2029
16.	From space to soil: Integrating remote sensing and process-based models for monitoring spatiotemporal soil organic carbon dynamics in agricultural landscape PI: Dr. Nishant K Sinha, ICAR-IISS, Bhopal	Oct 2026-Sept 2029
17.	Development of on-farm carbon farming model under regenerative agricultural practices for small farmers of Indo-Gangetic plains of India PI: Dr. Pragati Pramanik Maity, ICAR-IARI, New Delhi	Oct 2026-Sept 2029
18.	Enhancing resilience of fisheries-based coastal livelihood against multiple stresses through stakeholder-involved policy research PI: Dr. Suresh. A, ICAR-CIFT, Kochi	Oct 2026-Sept 2029
19.	Unravelling potential of nanoparticles as an effective alternative to combat antibiotic resistant strains associated with bovine mastitis PI: Dr. Deepak B. Rawool, ICAR-NMRI, Hyderabad	Oct 2026-Sept 2029

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20.	Molecular epidemiology of chicken infectious anemia virus (CAV) including risk assessment for disease outbreaks and development of recombinant CAV for possible use as a live viral vaccine PI: Dr. T. R. Kannaki, ICAR-DPR, Hyderabad	Oct 2026-Sept 2029
21.	Development of seaweed-based formulations for enteric methane mitigation and improving energy use efficiency in dairy animals PI: Dr. Pradeep Kumar Malik, ICAR-NIANP, Bengaluru	Oct 2026-Sept 2029
22.	G-Protein coupled receptors: Gut-nutrient chemosensing and regulation of digestion and absorption in sheep PI: Dr. G. Krishnan, ICAR-NIANP, Bengaluru	Oct 2026-Sept 2029
23.	Next-Generation livestock heat stress management: Developing infrared thermal imaging (IRT) based decision support system PI: Dr. Mahak Singh, ICAR RC NEH Region, Nagaland Centre, Medziphema	Oct 2026-Sept 2029
24.	Development of salivary proteins based immuno-biosensor for efficient estrus identification in buffaloes PI: Dr. Rubina K Baithalu, ICAR-NDRI, Karnal	Oct 2026-Sept 2029
25.	Enhancing rabies vaccine efficacy using esoporous silica nanoparticle-based delivery system PI: Dr. Sonal, ICAR-IVRI, Izatnagar	Oct 2026- Sept 2029
26.	Dietary approaches to mitigate climate change impacts on reproductive performance of Indian major carp, *Labeo rohita* PI: Dr. Ashis Saha, ICAR-CIFA, Bhubaneswar	Oct 2026- Sept 2029
27.	Development of a climate-resilient strain of giant freshwater prawn *Macrobrachium rosenbergii* through selective breeding PI: Dr. D. Panda, ICAR-CIFA, Bhubaneswar	Oct 2026- Sept 2029
28.	Quantifying methane flux from freshwater aquaculture production systems and devising its mitigation measures in pond environment PI: Dr. Pratap Chandra Das, ICAR-CIFA, Bhubaneswar	Oct 2026-Sept 2029
29.	Unravelling the dynamics of the algal and bacterial microbiome and its association with shrimp productivity in the new age shrimp farming through omics approach PI: Dr. N. Lalitha, ICAR-CIBA, Chennai	Oct 2026-Sept 2029
30.	Development of simple and rapid recombinase-aided amplification based genetic sex identification method in Pearlspot (*Etroplus suratensis*) PI: Dr Sivamani B, ICAR-CIBA, Chennai	Oct 2026-Sept 2029
31.	Optimization of farming practices of black seabream, *Acanthopagrus berda* for sustainable production PI: Dr. Suresh Babu, ICAR-CMFRI, Kochi	Oct 2026- Sept 2029

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32.	Enhancing productivity and adaptation of soybean varieties in India through marker assisted introgression of photoinsensitivity, YMV disease resistance and deciphering its molecular mechanism PI: Dr. Vangala Rajesh, ICAR-NSRI, Indore	Oct 2026-Sept 2029
33.	Deciphering the mechanism of gain of virulence in *Colletotrichum falcatum* vis-à-vis breakdown of red rot resistance in sugarcane PI: Dr. A. Ramesh Sundar, ICAR-SBI, Coimbatore	Oct 2026-Sept 2029
34.	Unveiling molecular mechanisms to improve seed germination traits in conventional and Indola Mustard: Synergizing with seed coating for superior seed performance PI: Dr. Sangita Yadav, ICAR-IARI, RS, Karnal	Oct 2026-Sept 2029
35.	Development of herbicide tolerant soybean through marker-assisted backcross breeding approach PI: Dr. Manisha Saini, ICAR-IARI, New Delhi	Oct 2026-Sept 2029
36.	Critical analysis of factors promoting kodo-poisoning toxin elaboration and distribution in kodo millet grains and its stability to processing methods PI: Dr. Venkateswarlu Ronda, ICAR-IIMR, Hyderabad	Oct 2026-Sept 2029
37.	Sesame multiparent advanced generation inter-cross (MAGIC) population-based genome-wide association study for identification of genomic regions associated with yield and quality traits PI: Dr. Ramya K.T., ICAR-IIOR, Hyderabad	Oct 2026- Sept 2029
38.	Deciphering genomics and parthenogenetic mechanism of mustard aphid *Lipaphis erysimi* to identify novel targets for its management PI: Dr Sridhar J., ICAR-NIBSM, Raipur	Oct 2026-Sept 2029
39.	Exploring chickpea (*Cicer arietinum L.*) microbiome functions for developing synthetic microbials to improve crop growth and productivity under rice-fallow system PI: Dr. K Swarnalakshmi, ICAR-IARI, New Delhi	Oct 2026-Sept 2029
40.	Mapping of QTLs/gene(s) governing powdery mildew (*Erysiphe cruciferarum Opiz. Ex. Junell*.) resistance in Indian mustard (*Brassica juncea*) PI: Dr. J. Nanjundan, ICAR-IARI, RS, Wellington	Oct 2026-Sept 2029

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