CONSOLIDATED LIST OF PROJECTS APPROVED FOR IMPLEMENTATION DURING 2021-22

Continuous No.	Division- wise No.	Title, duration, Number	PI
		CROP IMPROVEMENT	
	I.	Priority area I: Management of cashew genetic (Leader: Dr. Mohana. G.S)	resources
1.	1.	Collection, conservation, characterisation and evaluation of cashew genetic resources [1986 – Long term]	Mohana. G.S.
		[Old title: Management of genetic resources in cashew] PIMS Number: IXX00382	
	II	Priority area II. Genetic improvement of cash quality traits (Leader: Dr. Mohana. G.S)	new for yield and
2.	2.	Genetic improvement of cashew through hybridisation and seedling selection approaches [1986 -Long Term] [Old title: Genetic improvement of cashew for yield and quality traits]	J.D. Adiga
3.	3.	Breeding in cashew for special traits [06/2012-05/2027] [Old title: Development of dwarf and compact cashew hybrids] PIMS Number: IXX09323	Eradasappa, E.
4.	4.	Breeding approaches for developing TMB tolerance [09/2017-08/2030] PIMS Number: IXX13687	Mohana, G.S.
5.	5.	Genetics of traits in cashew [05/2019 – 04/2025] [Old title: Generation mean analysis in cashew to understand the nature of gene action for important traits] PIMS Number: IXX15237	Eradasappa, E.
6.	6.	Evaluation of big cashew apple genotypes for apple yield and quality [10/2013-06/2021] Extended till 06/2022) PIMS Number: IXX10492	Eradasappa, E.

		PIMS Number: IXX10491	
7.	7.	Polyploidy breeding in cashew [10/2020-09/2030]	Mohana, G.S.
8.	8.	New proposal: Evaluation of dwarf and semi dwarf accessions and their seedling progenies for high density planting system [09/2021-08/2032]	Mohana G.S
	III	Priority area III. Development, refinement and use of biotechnological approaches in cashew (Leader: Dr. Siddanna Savadi)	
9.	9.	De novo genome assembly, linkage analysis and population structure studies in cashew (Anacardium occidentale L.) [09/2017 – 08/2022]PIMS Number: OXX04051	Siddanna Savadi
10.	10.	Genetic dissection of QTLs governing nut yield and cashew nut shell liquid (CNSL) content in cashew [06/2018-05/2025] PIMS Number: IXX14347	Siddanna Savadi
11.	11.	Externally Funded Project:Development of morphological descriptors and DUS test guidelines for cashewFunded by: Protection of Plant Varieties and Farmers' Rights Authority (PPV&FRA), New DelhiBudget: Rs. 10 Lakhs [04/2015-03/2022]PIMS Number: OXX03473	Mohana, G.S.
12.	12.	 <i>Externally Funded Project:</i> Establishment of a Centre of Excellence for Biotechnology Needed for Genomics Assisted Breeding in Cashew Funded by: RKVY-FAFTAAR, Government of Karnataka Budget: Rs. 75 lakhs [04/2020 to 03/2022] 	Siddanna Savadi
		CROP MANAGEMENT	
	IV	Priority area IV: Enhancing input use efficiency and productivity (Leader: Dr. Shamsudheen M)	

13.	1.	Developing nutrient management strategies for	Shamsudheen
		cashew based on soil and leaf status	Mangalassery
		[10/2020-09/2023]	
		[Old title: Development of nutrient management	
		schedules for cashew based on leaf nutrient status]	
14.	2.	Carbon cycling, sequestration and nutrient	Shamsudheen
		dynamics in cashew orchards	Mangalassery
		[10/2020-09/2023]	
	V	Priority area V: Physiological and basic studies (Leader: Dr. Babli Mog)	
15.	3.	Characterization of physiological responses of	Babli Mog
		cashew (A. occidentale L.) accessions to salt and	
		drought stresses	
		[10/2015-09/2022]	
		IXX11537	
		IXX11536	
16.	4.	In-vitro pollen germination and pollen tube growth of cashew varieties in response to high	Babli Mog
		temperature stress	
		[05/2019 - 04/2024]	
		DIMC Number IVV15120	
17.	5.	PIMS Number: IXX15130 New proposal: Physiological and biochemical	Babli Mog,
1/1	2.	basis of salinity tolerance in cashew rootstocks	Buon Mog,
		[09/2021-08/2026]	
	VI	Priority area VI: Horticulture production	
- 10		technologies (Leader: Dr. J.D. Adiga)	
18.	6.	Studies on pruning and phenology in cashew [09/2017-08/2021]	J.D. Adiga
		IXX13900	
10		IXX13638	X 7 (TT) 1 1
19.	7.	Effect of growth regulator in combination with flower and fruit-set enhancing chemicals on	V. Thondaiman
		cashew (<i>Anacardium occidentale</i> L.)	
		[10/2020-09/2022]	
20		PIMS Number: IXX16215	
20.	8.	Development of cashew (<i>Anacardium occidentale</i> L.) based cropping system for west coastal region	V. Thondaiman
		[10/2020-09/2023]	

		[Old title: Development of cashew (<i>Anacardium occidentale</i> L.) based cropping system under rainfed condition of Karnataka]	
21.	9.	Design, development and performance evaluation of Cashew fruit and nut separator [10/2020-09/2024]	Manjunatha. K
		PIMS Number: IXX15634	
22.	10.	Design and development of gadgets for cashew fruit harvesting and collection [10/2020-09/2024]	Manjunatha. K
	11	PIMS Number: IXX15635	Mariach C N
23.	11.	New proposal: Influence of weather parameters on growth dynamics of apple and nut in selected varieties of Cashew [09/2021-08/2024]	Manjesh, G. N.
24.	12.	New proposal: Effect of inter-stocks in Cashew (<i>Anacardium occidentale</i>) [09/2021-08/2024]	V. Thondaiman
25.	13.	New proposal: Biochemical and mineral composition studies in relation to phenology of fruit development and maturity in cashew [09/2021-08/2023]	B.M. Muralidhara
		CROP PROTECTION	
	VII	Priority area VIII: Integrated management of pests and diseases & ecosystem services in cashew (Leader: Dr. T.N. Raviprasad)	
26.	1	Investigations on inflorescence insect pests of cashew and their management [10/2016-05/2022] PIMS Number: IXX13176	K. Vanitha
27.	2	Cashew tea mosquito bug interactions and the defensive responses [05/2019 – 04/2023]	K. Vanitha
		PIMS Number: IXX14975	
28.	3	Characterization and synthesis of female sex pheromone of Tea Mosquito Bug; (<i>Helopeltis</i> <i>antonii</i>) and its bioassay [10/2020-09/2025]	T N Raviprasad
29.	4	Influence of <i>Apis cerana</i> and <i>Braunsapis</i> <i>picitarsis</i> on pollination and fruit set of cashew	K. Vanitha

		[05/2019-04/2023]	
		PIMS Number: IXX14974	
30.	5	New proposal: Assessing the field effectiveness of entomopathogenic nematodes (EPN) and indigenous strain of entomopathogenic fungus (EPF) in management of cashew stem and root borers (<i>Plocaederus ferrugineus</i> and <i>Plocaederus obesus</i>) [09/2021-08/2026]	T.N. Raviprasad,
31.	6.	New proposal: Survey and diagnosis of diseases occurring in cashew crop and their morphological and molecular characterization [09/2021-08/2024]	H. Rajashekara
		POST HARVEST TECHNOLOGY	
	VIII	Priority area VIII: Post-Harvest Technology (Leader: Dr. D. Balasubramanian)	
32.	1	Design and development of mechanized slicer for cashew apple [10/2014 – 06/2022]	D. Balasubramanian
		PIMS Number: IXX11563	
33.	2	Studying comparative performance of cashewnut processing systems in India [10/2017-09/2022] IXX13902	D. Balasubramanian
34.	3	IXX13683 Design and development of moisture meter for raw cashewnuts [07/2018-06/2022] IXX13901	D. Balasubramanian
35.	4	IXX13682 Development of value added products from cashew apple and sprouts	Shamsudheen Mangalassery
		[06/2018-05/2022] [Old title: Development of dehydrated products from cashew apple and sprouts] PIMS Number: IXX14346	
36.	5	Optimizing Processing Parameters In Cashew For Enhancing Whole Kernel Recovery	D. Balasubramanian

		[10/2020-09/2021]	
37.	6	New proposal: Development of Ready to Eat alternate Snack food using cashew apple - Extrusion and Vacuum frying approach [09/2021-08/2024]	D. Balasubramanian
38.	7	New proposal: Development of Probiotic Food Product/s from Cashew Apple [09/2021-08/2024]	Rajkumar, A.D
39.	8	New proposal: Phytochemical characterization of cashew (leaf and apple) nutraceuticals for its utilization in development of functional foods [09/2021-08/2024]	Rajkumar, A.D
		TRANSFER OF TECHNOLOGY	
	IX	Priority area IX: Transfer of technology and knowledge management (Leader: Dr. Aswathy Chandrakumar)	
40.	1	New proposal: Knowledge management and technology transfer in cashew [09/2021-Long term]	Aswathy Chandrakumar
41.	2	New proposal:Analysis of socio-economic dimensions and innovation system dynamics in Cashew sector [09/2021-Long term]	Aswathy Chandrakumar
42.	3	<i>Externally Funded Project:</i> Development of an exclusive android	Mohana, G.S.
		application for cashew cultivation	
		Funding: Directorate of Cashewnut and Cocoa	
		Development (DCCD), Cochin	
		Budget: Rs. 5.0 Lakhs	
		[09/2017-03/2022]	
		OXX04052	
		OXX03985	
		OXX03984	

43.	4	Externally Funded Project:	Shamsudheen
		Farmer participatory soil and plant health	Mangalassery
		management – An attempt for improving	
		livelihood of cashew farmers of coastal	
		Karnataka Funded by: RKVY-FAFTAAR,	
		Government of Karnataka	
		Budget: Rs. 1.89 Crores [04/2018 to 03/2021]	
		PIMS Number: OXX04244	
44.	5	Externally Funded Project:	Shamsudheen
		Utilization of cashew apple for new products and	Mangalassery
		entrepreneurship development of rural women	
		and youth in Karnataka for mitigating the effect	
		of COVID-19	
		Funded by: RKVY-FAFTAAR, Government of	
		Karnataka	
		Budget: Rs. 57.0 lakhs [04/2020 to 03/2022]	
45.	6	Externally Funded Project:	Mohana, G.S.
		Improving area, production and productivity of	
		cashew in Shivamogga and Chitradurga districts	
		in Karnataka	
		Funded by: RKVY-FAFTAAR, Government of	
		Karnataka	
		Budget: Rs. 36 lakhs	
		[04/2020 to 03/2022]	
46.	7.	Externally Funded Project:	Mohana, G.S.
		Development of an AI-based app for	
		Development of an AI-based app for identification of pests and diseases in cashew	
		Funded by: RKVY-FAFTAAR, Government of	
		Karnataka	
		Budget: Rs. 16 lakhs	
		[04/2020 to 03/2022]	
47.	8.	Externally Funded Project:	Mohana, G.S.
		Establishment of an exclusive 'Cashew Parlour'	
		for creating awareness on value added products of	
		cashew	

Funded by: RKVY-FAFTAAR, Government of	
Karnataka	
Budget: Rs. 2.2 Crores	
[04/2020 to 03/2022]	