

**List of institute projects 2020-21 along with their investigator**

Sr. No.	Project Name	Project Leader & Associates	Period of Association		Project period	Status
			From	To		
1.	Development of quality sensing system for mushroom and minimally processed pomegranate arils	Dr. Rahul Kumar Anurag (Co-PI) PI w.e.f.	01.07.2015	19.06.2017	01/07/2015 30/06/2019	Extension till 31.12.2020
		Dr. Shammi Kapoor, Sr. Mycologist, PAU Ludhiana (Co-PI)	20.06.2017	31.12.2020		
		Dr. Th. Bidyalakshmi (Co-PI)	01.08.2015	31.12.2020		
2.	Development of rapid spectroscopic and molecular techniques for detection of animal species in meat products	Dr. Yogesh Kumar (PI)	01.04.2016	31.03.2020	01.04.2016 31.03.2020	Completed
		Sh. Vikas Kumar	12.10.2018	31.03.2020		
3.	Design and development of hot air dryer for maize cob.	Er. Dhritiman Saha (Co-PI)	01.04.2016	27.05.2019	01/04/2016 31/03/2020	Extension till 31.12.2020
		Dr. Pankaj Kumar (PI w.e.f. 01.11.2017)	01.11.2017	31.12.2020		
4.	Design and Development of Mechanized System for Fruit Bar Manufacturing	Dr. Kirti Jalgaonkar (PI)	01.04.2016	30/09/2019	01/04/2016 30/09/2019	On-going  Extension till 31.03.2021
		Mrs. Purna Nath (Co-PI)	01.04.2016	Till date		
		Dr. Manoj Kumar Mahawar (Co-PI)	01.04.2016	30/09/2019		
		Dr. Sakharam Kale (Co-PI w.e.f.)	19.08.2020.	Till date		
5.	Development of smart device for automatic detection and identification of insects in stored grains using machine vision technology	Dr. Ranjeet Singh (Co-PI) (PI)	01.04.2016	17.07.2018	01.04.2016 31.03.2019	On-going  Extension till 31.03.2021
		Dr. B.B. Ratnakar (Co-PI)	18.07.2018	Till date		
		Er. Yogesh Kalnar (Co-PI w.e.f.)	01.04.2016	13.11.2020		
6.	Development of hermetically sealed storage structure of 01 Tonne capacity for pulses	Er. Akhoun Asrar Bashir (PI)	01.04.2017	31.12.2020	01/04/2017 30/06/2020	Extension till 31.12.2020
		Dr V. Chandrasekar (Co-PI)	01.04.2017	02.09.2019		
		Entomologist from PAU(Co-P-I)	01.04.2017	31.12.2020		
7.	Revised Title: Development of process for color extraction from black carrot and its byproducts and its utilization in value added product	Dr. Prerna Nath Kale (PI)	01.04.2017	31.03.2020	01/04/2017 31/03/2020	Completed
		Dr. Sunil Kumar (Co-PI)	01.04.2017	31.03.2020		
		Dr. Ajinath Dukare (Co-PI)	01.04.2017	31.03.2020		
8.	Development of mechanized litchi	Dr. Bibwe Bhusan Ratnakar (PI)	01.04.2017	13.11.2020	01/04/2017 31/03/2020	On-going

	de-stoner. <i>'The word automated in title to be replaced with mechanized'</i>	Dr. Kirti Jalgaonkar (Co-PI)	01.04.2017	30.11.2019		Extension till 31.03.2021
		Dr. Pankaj Kumar. Kannaujia (Co-PI)	01.04.2017	29.09.2018		
9.	Designing Extension Strategies for Wider Adoption of Post-Harvest Technologies based on Adoption Behaviour of End Users	Dr. Renu Balakrishnan (PI)	01.04.2017	Till date	01/04/2017 31/03/2020	On-going
		Dr. Sandeep Mann (Co-PI)	01.04.2017	Till date		Extension till 31.03.2021
		Associated Dr Arvind Kumar (PS), ICAR-ATARI (Co-PI)	01.10.2018	Till date		
10	Development of pigmented cereals based expanded/extruded products and their nutritional evaluation	Dr. K. Bembem, (PI)	01.04.2017	31.12.2020	01/04/2017 31/03/2020	Extension till 31.12.2020
		Dr. Pankaj Kumar (Co-PI)	01.04.2017	31.12.2020		
11	Development of automatic Sorter/Grader for Pomegranate and Tomato	Er. Yogesh Kalnar (PI)	01.04.2017	Till date	01/04/2017 31/03/2020	On-going
		Associated Er. Sandeep Dawange Popatro (Co-PI)	01.10.2018	Till date		Extension till 31.03.2021
12	Development of collagen hydrolysate from buffalo ( <i>Bubalus bubalis</i> ) skin and its effect on osteoarthritis.	Dr. Tanbir Ahmad (PI)	01.10.2018	30.11.2019	01/10/2018 30/09/2020	On-going
		Dr A.U. Muzzadadi (Co-PI)	01.10.2018	Till Date		Extension till 30.09.2021
		Dr. Yogesh Kumar (Co- PI & PI)	01.10.2018 01.12.2019	30.11.2019 Till Date		
13	Development of process protocol for cryogenic grinding of selected medicinal herbs (Ashwagandha and Safed Musli)	Dr. Pankaj Kumar (PI)	01.10.2018	Till Date	01/10/2018 30/09/2021	On-going
		Dr. Manju Bala (Co-PI)	01.10.2018	Till Date		
14	<b>Mega-Project:</b> Value chain improvement through post-harvest handling, storage and processing of mango. <b>Sub-Project 1:</b> Utilization of mango processing waste through extraction and development of novel value added products <b>Sub-project 2:</b> Production of bio-	Dr Ramesh Kumar (PI)	Project not approved		01.10.2018 30.09.2021	<b>Sub-Project 1 is not approved by IRC 2018</b>
		Dr. Poonam (PI)	01.10.2018	Till Date	01/10/2018 30/09/2021	On-going
		Dr. Th. Bidyalakshmi (Co-PI)	01.10.2018	Till Date		

	active ingredients from mango seed kernels	Dr. Sandeep Dawange Poputrao (Co-PI)	01.10.2018	Till Date		<i>The IRC advised to include this activity in Mango Value Chain project)</i>
	<b>Development of a prototype for separation of peel and stone from mango processing waste</b>	Dr. Manoj Kumar Mahawar (PI)	01.06.2019	30.11.2019	01.06.2019 31.05.2022	
		Dr. Kirti Jalgaonkar (Co-PI)	01.06.2019	30.11.2019		
15	Development of ACE-Inhibitory Peptides from Fish and Livestock Processing Waste	Sh. Vikas Kumar (PI)	01.10.2018	Till Date	01/10/2018 30/09/2020	On-going  Extension till 31.03.2021
		Dr. Yogesh Kumar (Co-PI)	01.10.2018	Till Date		
		Dr. Tanbir Ahmad (Co-PI)	01.10.2018	30.11.2019		
		Dr.A.U.Muzadaddi (Co-PI)	15.01.2020	Till Date		
16	Development of Lab-on-a-Chip method for detection of animal species in meat products	Dr. Yogesh Kumar (PI)	01.04.2019	Till Date	01.04.2019 31.03.2022	On-going
		Dr. K Narsaiah (Co-PI)	01.04.2019	Till Date		
		Dr. Tanbir Ahmad (Co-PI)	01.04.2019	30.11.2019		
		Dr Poonam (Co-PI)	01.04.2019	Till Date		
17	Development of Infra Red Spectroscopy Based Rapid Detection Methods for Adulterants in Chick pea flour ( <i>Besan</i> )	Dr. Manju Bala (PI)	01.04.2019	Till Date	01.04.2019 31.03.2021	On-going
		Dr. Swati Sethi (Co-PI)	01.04.2019	Till Date		
		Mrs. P. Hemasankari (Co-PI)	01.04.2019	30.11.2019		
18	Enhancing value of pigeon pea, black gram and their by-products through secondary agriculture	Dr. Deepika Goswami (PI)	01.01.2019	Till Date	01.01.2019 31.12.2021	On-going
		Dr. D. Mridula, (Co-PI)	01.01.2019	Till Date		
		Dr. Manju Bala, (Co-PI)	01.01.2019	Till Date		
19	Development of ripening delaying kit for enhancing the shelf-life of fresh fruits	Dr. Sunil Kumar (PI)	01.04.2019	18.08.2020	01.04.2019 31.03.2021	On-going
		Dr. Ramesh Kumar (Co-PI)	01.04.2019	Till Date		
20	Postharvest Management and Value Addition of <i>Ker</i> and <i>Sangri</i> for their Commercial Exploration	Prerna Nath (Co-PI)	01.04.2019	Till Date	01.04.2019 31.03.2021	On-going
		Sakharam Kale (Co-PI)	01.04.2019	Till Date		
		Sunil Kumar (Co-PI)	01.04.2019	18.08.2020		
		Ramesh Kumar (Co-PI)	01.04.2019	Till Date		
21	Development of mechanized system for deodorization and safe handling of dried fish	Dr A.U. Muzaddadi (PI)	01.04.2019	Till Date	01.04.2019 31.03.2022	On-going
		Dr. Sandeep Mann (Co-PI)	01.04.2019	Till Date		
		Dr. Khawairakpam Bembem (Co-PI)	01.04.2019	Till Date		
		Dr. Bipul Kakati (Co-PI)	01.04.2019	Till Date		
		Dr. Guru P.N (Co-PI)	27.02.2020	Till date		
22	Design and development of	Dr. Manoj Kumar Mahawar (PI)	01.04.2019	30.11.2019	01.04.2019 31.03.2021	<i>As both the Investigators</i>

	mechanized and continuous peeling system for citrus fruits	Dr. Kirti R. Jalgaonkar (Co-PI)	01.04.2019	30.11.2019		<i>have been transferred, hence the project is deferred till engineering scientists join at Abohar.</i>
23	<b>Revised Title:</b> upgradation and refinement of green pea depoding machine.	Dr. B.B. Ratnakar (PI)	01.04.2019	31.03.2020	01.04.2019 31.03.2020	Completed
		Dr. Kirti Jalgaonkar (Co-PI)	01.04.2019	30.11.2019		
24	Upgradation and commercialization of woman-friendly semi-automatic fish cleaning-cum dressing system”	Dr. A.U. Muzaddadi (PI)	01.04.2019	Till Date	01.04.2019 31.03.2020	On-going
		Mr. Vikas Kumar (Co-PI)	01.04.2019	Till Date		<i>Extension upto 31.03.2021</i>
25	Development of enzyme assisted technology for enhancing protein extraction from de-oiled rice bran.	Ms. Surya (PI)	01.10.2020	Till Date	01.10.2020	On-going
		Dr. D.N. Yadav (Co-PI)	01.10.2020	Till Date	30.09.2022	
		Dr. Rajeev K. Kapoor (Co-PI), MDU, Rohtak, Haryana	01.10.2020	Till Date		
26	Development of Photoreactor for Ethylene Degradation During Storage of Banana and Guava	Dr. Bhupendra M ki (PI)	01.10.2020	Till Date	01.10.2020 30.09.2023	On-going
		Er. Yogesh Kalnar (Co-PI)	01.10.2020	Till Date		
		One Food Technologist in place of Biochemist Dr. Poonam, may be associated in project team.	01.10.2020	Till Date		
27	Development of Table Top Vaccum Frying System	Dr. Swati Sethi (PI)	01.10.2020	Till Date	01.10.2020	On-going
		Dr. Pankaj Kumar (Co-PI)	01.10.2020	Till Date	30.09.2022	
28	Microbial production of Poly Hydroxy Butyrate (bioplastic) using mango by products	Dr. Ajinath Dukare (PI)	01.10.2020	02.03.2021	01.10.2020	On-going
		Sh. Mahesh Kumar Samota (Co-PI)	01.10.2020	Till Date	30.09.2022	
		Dr. Bibwe Bhushan Ratnagar (Co-PI)	01.10.2020	13.11.2020		
29	Development of Solar Operated Low Cost Onion Storage Structure	Dr. Sakharam Kale (PI)	01.10.2020	Till Date	01.10.2020	On-going
		Dr. Dr. Ajinath Dukare (Co-PI)	01.10.2020	02.03.2021	30.09.2022	
		Sh. Mahesh Kumar Samota (Co-PI)	01.10.2020	Till Date		
30	Development and Updating of Post-Harvest Machineries & Technologies Database	Dr Sandeep Mann (PI)	01.10.2020	Till Date	01.10.2020	On-going
		Dr Sandeep P. Dawange (Co-PI)	01.10.2020	Till Date	30.09.2023	
		PC PHET/Scientist (Co-PI)	01.10.2020	Till Date		
		PC PEASEM/ Scientist (Co-PI)	01.10.2020	Till Date		
31	Development of android based	Dr. Ranjeet Singh (PI)	01.10.2020	Till Date	01.10.2020	On-going
		Er. Thongam. Sunita	01.10.2020	Till Date	30.09.2023	

	mobile application (Mobile app) on post-harvest technology for skill development and employment security.	Devi (CoPI)				
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<b>List of Externally Funded Projects 2020-21 along with their investigator</b>						
1.	Development of food Bio-polymer based micro & nano scale delivery systems for bioactive ingredients in functional foods (Under Award of ICAR-National Fellow)	Dr. K. Narsaiah (PI)	02.01.2015	01.01.2020	02.01.2015 01.01.2020	Completed
2.	Establishment of modern fruits and vegetables Agro Processing Centre (APC)	Dr. Mridula D. (PI in place of Dr. R.K. Vishwakarma, PI & LCPC CRP on SA, ICAR-CIPHET, Ludhiana	1.04.2019	Till date	<b>01/04/2015 31/03/2017</b>	<b>On-Going Extension till 31.03.2021</b>
		Er. Akhoon Asrar Bashir (Co-PI)	22.12.2018	Till Date		
		Er. Indore Navnath Sakharam (Co-PI)	22.12.2018	Till Date		
		Dr. Deepika Goswami (Co-PI)	22.12.2018	Till Date		
3.	Value addition of Makhana and its by-products	Dr. R.K. Vishwakarma (PI)	01.04.2016	Till date	<b>01.04/2016 31.03.2017</b>	<b>On-Going Extension till 31.03.2021</b>
		Dr. Ranjit Singh (Co-PI)	01.04.2016	Till date		
		Dr. Khwairakpam Bembem (Co-PI)	16.08.2016	Till date		
		Dr. Mridula D. (Co-PI)	01.04.2018	Till date		
4.	Processing and Value Addition of Agricultural Produce for Enhancing Farmers income and Employment in Production Catchment under Farmer FIRST Programme (FF P)	Dr. Sandeep Mann (PI)	30.01.2017	Till date	<b>30.01.2017 31.03.2017</b>	<b>On-Going Extension till 31.03.2021</b>
		Dr. Rahul Kumar Anurag (Co-PI)	30.01.2017	Till date		
		Dr. Renu Balakrishnan (Co-PI)	30.01.2017	Till date		
		Er. Yogesh Kalnar (Co-PI)	30.01.2017	Till date		
		Dr. B.V.C Mahajan (Co-PI) Director & Prof., (PHPTC)	30.01.2017	Till date		
5.	Refinement of process protocol for preparation of traditional fermented fish products of Northeast India by using	Dr. A.U. Muzaddadi (PI)	23.03.2018	Till date	23.03.2018 22.03.2020	Extension till 22.03.2021
		Er. Dhritiman Saha (Co-PI)	23.03.2018	24.05.2019		
		Dr. Sandeep P. Dawange (Co-PI)	Date ??	??		

	biotechnological tools and its process mechanization	w.e.f).				
6.	Valorization of industrially produced soybean and groundnut de-oiled meals/cakes by extraction, purification and production of protein isolates	Dr. D.N. Yadav (PI)	01.08.2018	Till date	01.08.2018 31.07.2021	Ongoing
		Dr. R.K. Vishwakarma (Co-PI)	01.08.2018	31.07.2019		
		Ms. Surya (Co-PI)	01.08.2018	Till date		
		Dr. Swati Sethi (Co-PI)	01.08.2018	Till date		
7.	Design and Development of protective structures for high valued crops to reduce damage from hail and frost	Er. Indore Navnath S. (PI)	23.08.2018	06.01.2021	23.08.2018 31.03.2020	Ongoing  Extension till 31.03.2021
		Dr. R.K. Singh, Director (Acting) [Co-PI]	23.08.2018	Till date		
8.	Development of protocols for shelf life, safe storage, milling outturn and indicative norms for procurement of major pulses	Dr. R.K. Vishwakarma (PI)	27.03.2019	Till date	27.03.2019 26.03.2021	Ongoing
		Dr. Mridula D. (Co-PI)	27.03.2019	Till date		
		Dr. D.N. Yadav (Co-PI)	27.03.2019	Till date		
		Dr. Deepika Goswami (Co-PI)	27.03.2019	Till date		
		Er. Navnath Indore Sakharam	27.03.2019	06.01.2021		
9.	Development of rapid quality monitoring system for wheat flour and its primary milled products	Dr. D.N. Yadav (PI)	02.05.2018	Till date	02.05.2018 01.05.2021	Ongoing
		Dr. V.Chandrasekar (Co-PI)	02.05.2018	02.09.2019		
		Mrs. Surya (Co-PI)	02.05.2018	Till date		
		Dr. Bhupendra M. Ghodki (Co-PI)	01.08.2019	Till date		
		Dr. Rahul Kumar Anurag (Co-PI)	01.10.2019	Till date		
10.	Microwave Assisted Disinfestation of Selected Food Grains (Rice and Wheat) (Pradeep Metals Limited)	Dr. D.N. Yadav (PI)	01.03.2019	29.02.2020	01.03.2019 29.02.2020	Completed <i>Consultancy Project</i>
		Dr. Swati Sethi (Co-PI)	01.03.2019	29.02.2020		
		Dr. Guru PN (Co-PI)	01.03.2019	29.02.2020		
		Dr. R.K. Singh (Co-PI)	01.03.2019	29.02.2020		
11.	Development of Hand-Held Instrument for Non-Destructive Quality Testing of Mango.	Dr. K.Narsaiah (PI)	01.10.2019	Till date	01.10.2019 30.09.2021	On-going
12.	Study on Determining Storage Losses of Wheat and Paddy Stored in CAP System and to Recommend Norms for Storage Losses. (FCI)	Dr. R.K. Vishwakarma (LCPI)	20.11.2019	Till date	20.11.2019 19.05.2021	Ongoing
		Dr. Mridula D. (LCCo-PI)	04.03.2020	Till date		
		Dr. Bhupendra M. Ghodki (LCCo-PI)	04.03.2020	Till date		
		Dr. Guru P.N. (LCCo-PI)	04.03.2020	Till date		
13.	Non-chemical management of stored-grain moths using flexible light-	Dr. Guru P.N. (PI)	01.10.2020	Till date	01.10.2020 30.09.2023	Ongoing

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14.	Study for “Performance Evaluation of Hermetic Bags on selected commodities”	Dr. Sandeep Mann (Pr. Scientist & PI)	01.10.2020	Till date	01.10.2020 30.09.2022	Ongoing
		Mrs. Surya (Scientist & Co-PI)	01.10.2020	Till date		
		Dr. Guru P.N. , Scientist (Co-PI)	01.10.2020	Till date		
		Dr. R.K. Singh, Director (Acting), ICAR-CIPHET (Co- PI)	01.10.2020	Till date		
<b>List of Externally Funded Projects 2020-21 along with their investigator _AICRP on PET_HCP Division</b>						
1	Revised Title: Development of phase change material based mobile cool chamber for transportation of fruits and vegetables	Dr. Sakharam Kale (PI)	01.04.2017	Till date	01.04.2017 31.03.2019	On-Going  Extension till 31.03.2020
		Dr. Pankaj Kumar Kannaujia (Co-PI)	01.04.2017	Till date		
		Er. Indore Navnath (Co-PI)	01.04.2017	Till date		
2	Assessment of soil microbial activities and post-harvest quality of tomato cultivated under plastic and organic mulches in arid regions	Dr. Ajinath Dukare (PI)	0.1.04.2018	Till date	01.04.2018 31.03.2020	Completed
		Dr. Pankaj Kannaujia (Co-PI)	0.1.04.2018	Till date		
3	Strategies for maximum vertical space utilization in growing of selected vegetables inside polyhouse in hot and arid region	Dr. Pankaj Kumar Kannaujia (PI)	0.1.04.2018	Till date	01.04.2018 31.03.2020	On-Going
		Dr. Sakharam Kale (Co-PI)	01.04.2018	Till date		
		Er. Indore Navnath Sakaram (Co-PI)	01.04.2018	Till date		