

## DETAILS OF R&D PROJECTS SUPPORTED BY MoFPI DURING 2012-13

(Rs. In lakh)						
Sr. No.	Topic of Research with Summary	Institution / University	State	Approved grant-in-aid	Instalment released	Amount of grant-in-aid released
1.	Development of Shelf Stable Chicken Meat Products with Natural Preservatives-A Hurdle Technology Approach	Tamil Nadu Veterinary and Animal Science University	Tamil Nadu	31.90	1st	24.70
2.	Bacteriophages-A novel biopreservative for vegetable	Tamil Nadu Agricultural University, Coimbatore	Tamil Nadu	67.09	1st	63.423
3.	Formulating value added products from minor tubers for food and industrial uses	Tamil Nadu Agricultural University, Home Science College and Research Institute, Madurai	Tamil Nadu	13.0825	1st	7.842
4.	Development stability and consumer acceptance of omega-3 enriched functional food	College of Food and Dairy Technology, Tamil Nadu Agricultural University, Chennai	T.N.	52.91	1st	42.78
5.	Development of Technologies for Novel Food Products based on Indigenous Technologies	Indian Institute of Crop Processing Technology, Thanjavur	T.N.	39.074	1st	32.712
6.	Study on development of dietary fibre enriched designer meat products	Lala Lajpat Rai University of Veterinary and Animal Sciences, Hissar	Haryana	54.90	1st	48.35
7.	Characterization of Colostrum Bio-active Components from different spices and their Application in the Formulation of Novel Dairy Products	Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan	Rajasthan	87.26	1st	79.88
8.	Microwave (MV) Enhanced Air Heating and Drying System for Value addition of Agro-based Products: Dehydration and Disinfestations	Department of Electrical Engineering, IIT Bombay, Powai, Mumbai	Maharashtra	24.70	1st	18.35
8(a)	Technology for Value Creation (workshop)	FICCI	Delhi	4.06	1st	4.0617
9.	Enzymatic synthesis of Theanin: A nutraceutical using microbial $\gamma$ -glutamyl transpeptidase	Department of Microbiology, University of Delhi, South Campus, New Delhi	Delhi	23.00	1st	15.50
10.	Development of ready-to-serve fish products through flexible retort pouch technology for Northeast Markets	College of Fisheries, Central Agricultural University, Agartala, Tripura	Tripura	25.402	1st	23.821

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11.	Development and Production Technologies for Guava Pulp Enriched Fermented Dairy Products	Banaras Hindu University, Varanasi	U.P.	41.27	1st	32.51
12	Studies for the selective separation of proteins from milk whey.	NCL, Pune	M.H.	20.74	1st	13.67
13.	Development of Fortification Technology for Milk to Increase Bioavailability of Mineral	Guru Angad Dev Veterinary & Animal Sciences University , Ludhiana, Punjab	Punjab	70.72	1st	62.36
14.	Studies on functional properties of the dominant microflora found in rice beer of Assam	Tezpur University	Assam	46.02	1st	40.31
15	Development of Antimicrobial Polymeric nanocomposite film from PET waste for packaging of milk and milk products	Department of Polymer, Science and Technology, University of Calcutta, Kolkata	W.B.	48.291	1 <sup>st</sup>	44.083
16	Isolation, modification of non conventional sources of starch from North Eastern Region and their potential food application	College of Home Science, CAU, Tura, Meghalaya	Meghalaya	40.184	1 <sup>st</sup>	35.592
17	Development of Healthy and Nutrient Rich Noodles by Supplementation with Legumes and Leafy Vegetables	Shivaji University, Kolhapur, Maharashtra	Maharashtra	31.13	2 <sup>nd</sup>	12.452
18	Utilization of deoiled soybean cake for production of enzymes, bioactive components and protein products	Indian Institute of Technology, Delhi	Delhi	15.60	2 <sup>nd</sup>	3.215
19	Ultra High Temperature (UHT) processing of liquids beverages and semi-solid food products by microwave and electrical energy heating	Jadavpur University, Kolkotta	W.B.	44.00	2 <sup>nd</sup>	17.60
20	DNA barcoding to discriminate trade spices from their adulterants.	Indian Institute of Spices Research, Calicut, Kerala	Kerala	28.466	2 <sup>nd</sup>	7.286
21	Quality improvement of traditional method of rice beer production by the tribal people of North-East India	Tezpur University, Napaam, Assam	Assam	78.685	3 <sup>rd</sup>	7.868
		<b>Total (1-21)</b>				<b>638.368</b>

**R&D projects approved by Science and Engineering Research Board (SERB) during 2012-13**

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Sr. No.	Topic of Research with Summary	Institution / University	State	Approved grant-in-aid	Instalment released	Amount of grant-in-aid released
1	Development of Degradable Food Packaging Technology "Green-PACK'	Department of Chemical Engineering Indian Institute of Technology, Guwahati, Assam	Assam	29.97	1 <sup>st</sup>	28.07
2	Quality Assessment of traditionally processed dried fish of the North East India	Department of Biotechnology, Gauhati University Guwahati, Assam	Assam	32.93	1 <sup>st</sup>	24.79
3	Optimization of Operational Parameters for the Extraction of Thiamine from Rice and Wheat Brans and Enrichment of Foods	Department of Biotechnology, GITAM Institute of Technology, GITAM University, Visakhapatnam, Andhra Pradesh	Andhra Pradesh	19.00	1 <sup>st</sup>	8.50
4	Development of Piperine Conjugates to Increase the Bioavailability of Iron	Department of Biotechnology, GITAM Institute of Technology, GITAM University, Visakhapatnam, Andhra Pradesh	Andhra Pradesh	30.00	1 <sup>st</sup>	7.50
5	Functionalized polymers for processing of soymilk and apple juice	Biotransformations Laboratory, Natural Products Division, Indian Institute of Chemical Technology, Hyderabad	Andhra Pradesh	33.34	1 <sup>st</sup>	23.17
6	Kinetic of Thermal Degradation of Chlorophyll in Green Leafy Vegetables and Increasing the Shelf life of the vegetables	Department of Chemical Engineering, National Institute of Technology Raipur, Chattisgarh	Chattisgarh	11.714	1 <sup>st</sup>	8.874
7	Development and Optimization of Edible Coating Formulations to Improve the Postharvest Quality and Shelf-life of Underutilized Short Lived Fresh Fruits by using RSM	Department of BRD School of Biosciences, Sardar Patel University Vallabh Vidyanagar, Gujarat	Gujarat	17.128	1 <sup>st</sup>	13.708
8	Comparative Evaluation of Enzymatic and Fermentative methods for Preparation of Chicken liver Hydrolystates: Recovery, Biofunctional Characterization and Application	Meat, Fish & Poultry Technology Department, Central Food Technological Research Institute, Mysore, Karnataka	Karnataka	41.64	1 <sup>st</sup>	35.46
9	Production of n-3 Polyunsaturated Fatty Acids Concentrate from Sardine Oil	Department of Chemical Engineering, National Institute of Technology Surathkal Srinivasnagar, Mangalore, Karnataka	Karnataka	46.798	1 <sup>st</sup>	39.814
10	Development of Process for nanoencapsulation of polyphenols for food supplement applications	Human Resource Development Central Food Technological Research Institute, Mysore, Karnataka	Karnataka	20.298	1 <sup>st</sup>	17.044
11	Nutritionally Enriched Innovative Convenience Foods Suitable for Industrial Production from Underutilized Grains	Department of Grain Science & Technology, Central Food Technological Research Institute, Mysore, Karnataka	Karnataka	20.00	1 <sup>st</sup>	15.16

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12	Studies in Physico-Chemical Properties of Plasma Processed Rice grains	Department of Food Engineering & Technology, Institute of Chemical Technology, Mumbai, Maharashtra	Maharashtra	22.38	1 <sup>st</sup>	19.69
13	Development of Continous and Energy Efficient Cooking Devices and Practices	Department of Chemical Engineering, Institute of Chemical Technology, Mumbai	Maharashtra	25.832	1 <sup>st</sup>	16.916
14	Enhancing the Shelf Life of Sapota (Manikara Zapota) by Value Addition	Department of Food Technology, Kongu Engineering College, Erode, Tamilnadu	Tamilnadu	10.44	1 <sup>st</sup>	4.00
15	Design and Evaluation of a Tamarind Fruit dehuller and Deseeder	Department of Food and Agricultural Process Engineering, Agricultural Engineering College and Research Institute, Tamilnadu Agricultural University,Coimbatore, Tamilnadu	Tamilnadu	10.44	1 <sup>st</sup>	7.22
16	Design and development of Ohmic Heating System for Pasteurization of Liquid Egg White and to Enhance the Functional Properties of Egg White Albumen	Department of Food and Agricultural Process Engineering Agricultural Engineering College & Research Institute, Tamilnadu Agricultural University, Coimbatore, Tamil nadu	Tamilnadu	20.28	1 <sup>st</sup>	15.14
17	Prebiotic Efficacy of Xylooligosaccharides (XOS) and their Food Applications	Centre for Food Technology, Department of Biotechnology, Anna University, Chennai & Post Harvest Technology Centre, Agricultural Engg. College and Research Institute, Tamilnadu Agricultural University, Coimbatore	Tamilnadu	27.708	1 <sup>st</sup>	18.854
18	Feasibility Study of Pulse Power Technique: Alternative Technology for Water Treatment	Department of Electrical Engineering, Indian Institute of Technology Madras, Chennai	Tamilnadu	29.995	1 <sup>st</sup>	25.49
19	Osmotic dehydration and Microwave vaccum drying of Kachkal Banana	Department of Food Engineering & Technology, Tezpur University, Napaam, Assam	Assam	20.81	1 <sup>st</sup>	17.59
20	Ultrasound processing of liquid food: Feasibility and Efficacy.	Department of Food Process Engineering, Indian Institute of Crop Processing Technology, Thanjavur 613001	Tamilnadu	9.988	1st	6.688
21	Biotechnological approaches to regulate fermentation and drying process of cocoa.	Department of Plantation Products Spices & Flavour Technology, Central Food Technological Research Institute,Mysore 570020	Karnataka	20.36	1 <sup>st</sup>	14.18
22	Development of database for Indian seafood safety and traceability based on AFLP markers	Fisheries College and Research Institute, Tamilnadu Veterinary and Animal Sciences University Thoothukudi 628008	Tamilnadu	31.456	1 <sup>st</sup>	25.128
<b>Total</b>						<b>392.986</b>