

**Completed Projects under scheme for Research and Development since 2008-2009.**

| <b>Sr No.</b> | <b>Project Title</b>                                                                                                                              | <b>Institute/ College/ University</b>                    | <b>State</b>     | <b>Sanctioned grant (Rs. In Crore)</b> | <b>Grant Released (Rs. In Crore)</b> |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------|----------------------------------------|--------------------------------------|
| 1             | Bio Processing and Pilot Scale Production of High Valued Tea Nutraceuticals: Catechin and Theaflavins”                                            | Institute of Himalayan Bioresource Technology Palampur   | Himachal Pradesh | 1.63                                   | 1.63                                 |
| 2             | Processing of apple pomace for value addition                                                                                                     | Institute of Himalayan Bioresource Technology Palampur   | Himachal Pradesh | 1.0744                                 | 1.0331                               |
| 3             | Validation of economically important fish species from India by DNA Bar-coding using CO-1 gene”                                                   | Dr. Baba Saheb Amedkar Marathwada University, Aurangabad | Maharashtra      | 2.2011                                 | 2.1775                               |
| 4             | Development of a Minimal processing Technology for high quality edible mushrooms                                                                  | Thapar Institute of Engineering & Technology, Patiala    | Punjab           | 0.04                                   | 0.04                                 |
| 5             | Development and popularization of insulated Ice bags for traditional fishing sector                                                               | Fisheries College Research Institute, Thoothukudi        | Tamil Nadu       | 0.14987                                | 0.1429                               |
| 6             | Preparation of tailor –made annatto dye formulations for selected traditional and industrial processed foods                                      | CFTRI, Hyderabad                                         | Telangana        | 0.07                                   | 0.0555                               |
| 7             | Technology assessment standardization and acceleration of Shidal Production in Northeast India                                                    | Central Agricultural University, Agartala                | Tripura          | 0.3988                                 | 0.3734                               |
| 8             | Nutritional approach for designing goat meat based functional products                                                                            | CIR Goat, Makhdoom                                       | Uttar Pradesh    | 1.0729                                 | 1.0615                               |
| 9             | Development of technology for the processing and preparation of value added Wood Apple                                                            | Bundelkhand University, Jhansi                           | Uttar Pradesh    | 0.394                                  | 0.197                                |
| 10            | Quality improvement of traditional method of rice beer production by the tribal people of North-East India                                        | Tezpur University, Napaam                                | Assam            | 0.7868                                 | 0.7755                               |
| 11            | Clean drying technology for locally available medicinal plants and seasonal vegetables                                                            | IIT Delhi                                                | Delhi            | 0.2272                                 | 0.1136                               |
| 12            | Development of Health Foods based on Rice Bran                                                                                                    | CFTRI, Mysuru                                            | Karnataka        | 0.1                                    | 0.1                                  |
| 13            | Development of process for isolation of pigments, flavonoids & Essential Oils by super critical extraction using selected foods/vegetables/spices | Punjab University, Chandigarh                            | Chandigarh       | 0.47                                   | 0.4673                               |
| 14            | Design and Fabrication of Proto type model of Annatto Seed Separator                                                                              | CFTRI, Hyderabad                                         | Telangana        | 0.1587                                 | 0.1356                               |

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| 15 | Ultra High Temperature Processing of Liquid Beverages and semisolid food products by microwave and electrical energy heating                                            | Jadavpur University, Kolkata      | West Bengal | 0.44   | 0.396  |
| 16 | Production of dried honey powder using vacuum puffing technique                                                                                                         | Assam University, Silchar         | Assam       | 0.2475 | 0.1237 |
| 17 | Refinement, `standardization and popularization of technologies for value added pork products in North-Eastern India                                                    | NRC Pig, Guwahati                 | Assam       | 0.3255 | 0.2971 |
| 18 | Development of health promoting extruded RTE breakfast cereal incorporating chokua rice and bhimkol banana of Assam along with carambola pomace                         | Tezpur University, Napaam         | Assam       | 0.4032 | 0.3069 |
| 19 | Development of economic process for the drying of Umorok Chilli and Turmeric and their quality evaluation with stability study                                          | CSIR, NEIST, Jorhat               | Assam       | 0.3104 | 0.2144 |
| 20 | Utilization of deoiled soyabean cake for production of enzymes, bioactive components and protein products                                                               | IIT Delhi                         | Delhi       | 0.156  | 0.1101 |
| 21 | Development of traditional fermented dairy products enriched with an indigenous probiotic strain for promoting the health and well-being of consumers                   | NDRI, Karnal                      | Haryana     | 0.6783 | 0.6612 |
| 22 | Non-destructive Nano- sensors for detecting chemical and biological food toxins using surface enhanced Raman Scattering                                                 | Amrita Vishwavidyapeetham, Cochin | Kerala      | 0.65   | 0.65   |
| 23 | Development of Healthy and Nutrient Rich Noodles by Supplementation with Legumes and Leafy Vegetables                                                                   | Shivaji University                | Maharashtra | 0.3113 | 0.2801 |
| 24 | Exploring the use of ornamental flowers as natural food colorants                                                                                                       | TNAU, Periyakulam                 | Tamil Nadu  | 0.2459 | 0.1677 |
| 25 | Development of enzyme based extraction process for improving quality and recovery of starch from different varieties of ColocasiaEsculenta (Arbi) of Assam for food use | Tezpur University, Napaam         | Assam       | 0.2726 | 0.2613 |
| 26 | Development of ready to reconstitute mistidahi powder                                                                                                                   | Tezpur University, Napaam         | Assam       | 0.1597 | 0.1472 |
| 27 | Biotechnology Production of Xylitol from Xylose rich lignocelulosic materials                                                                                           | IARI, New Delhi                   | Delhi       | 0.2311 | 0.231  |
| 28 | Supercritical Fluid Extraction of Natural Antioxidant for Food Preservation                                                                                             | IIT Delhi                         | Delhi       | 0.63   | 0.6088 |
| 29 | Value added and Healthful Texturized egg product                                                                                                                        | CFTRI, Mysuru                     | Karnataka   | 0.3851 | 0.2985 |

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| 30 | DNA barcoding to discriminate traded spices from their adulterants” of Indian Institute of Spices Research                                                                                        | IISR, Calicut                                         | Kerala        | 0.2846 | 0.2846 |
| 31 | Low cost Dehydration of Fruits and Vegetables using continuous explosion Puffing Process (CEPP)                                                                                                   | M/s Ghatge Precision Engineering Pvt. Limited, Satara | Maharashtra   | 0.3416 | 0.3074 |
| 32 | Improvement of Nutritional Value of Finger Millet by Extrusion cooking Technology                                                                                                                 | Dr. B.S. Konkan Krishi Vidyapeeth, Dapoli             | Maharashtra   | 0.3751 | 0.3329 |
| 33 | Studies on preparation of Syrup and Jaggery of Neera obtained from Phoenix sylvestris                                                                                                             | University of Pune, Pune                              | Maharashtra   | 0.2467 | 0.2278 |
| 34 | Low cost process development and quality evaluation of carbonated beverages made from Aloe Vera Gel Blend with extract of Amla, Sweet Lime and Ginger in Meghalaya-North East Region              | CAU, Tura                                             | Meghalaya     | 0.2722 | 0.2326 |
| 35 | Novel bioactive edible films for extending shelf life of meat based products                                                                                                                      | GADVASU, Ludhiana                                     | Punjab        | 0.562  | 0.5136 |
| 36 | Development of Processing Techniques for Preserving Juvenile Shoots of nutritionally rich and Edible Bamboos of Sub- Himalayan and North Eastern Region of India                                  | Punjab University, Chandigarh                         | Chandigarh    | 1.069  | 0.8651 |
| 37 | Development of technology for resistant/ modified starch substituted Cereals/ milled and pulses blended bakery and pasta products                                                                 | TNAU, Madurai                                         | Tamil Nadu    | 0.3796 | 0.3297 |
| 38 | Pre and post harvest technologies for moringa to enhance the shelf life and value addition                                                                                                        | TNAU, Coimbatore                                      | Tamil Nadu    | 0.3851 | 0.3465 |
| 39 | Studies on the preservation of vegetable Juices and Non-Acidic fruit juices by Microwave Heating                                                                                                  | CFTRI, Hyderabad                                      | Telangana     | 0.3882 | 0.3688 |
| 40 | Development and quality evaluation of innovative convenience food product                                                                                                                         | IVRI, Bareilly                                        | Uttar Pradesh | 0.4525 | 0.3612 |
| 41 | Design of Novel Functional Food Supplements using Supercritical Carbon dioxide Extraction and Encapsulation Technologies                                                                          | Jadavpur University, Kolkata                          | West Bengal   | 0.3301 | 0.33   |
| 42 | Food Irradiation Unit assisting (i) Food Processing Industries (ii) R&D in new areas of irradiated food & (iii) Training Centre for food irradiation specially for Eastern & North Eastern Region | Jadavpur University, Kolkata                          | West Bengal   | 3.8    | 3.7414 |

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| 43 | Development of Piperine Conjugates to Increase the Bioavailability of Iron                                                                                            | GITAM University, Visakhapatnam             | Andhra Pradesh | 0.15   | 0.1499 |
| 44 | Optimization of Operational Parameters for the Extraction of Thiamine from Rice and Wheat Brans and Enrichment of Foods                                               | GITAM University, Visakhapatnam             | Andhra Pradesh | 0.095  | 0.0916 |
| 45 | Quality Assessment of traditionally processed dried fish of the North East India                                                                                      | Guwahati University, Guwahati               | Assam          | 0.3293 | 0.3241 |
| 46 | Development of Degradable Food Packaging Technology 'Green-PACK'                                                                                                      | IIT Guwahati                                | Assam          | 0.2997 | 0.2917 |
| 47 | Osmotic dehydration and Microwave vacuum drying of Kachal Banana                                                                                                      | Tezpur University, Napaam                   | Assam          | 0.2081 | 0.2041 |
| 48 | Studies on Functional properties of the dominant microflora found in rice beer of Assam                                                                               | Tezpur University, Napaam                   | Assam          | 0.4602 | 0.4031 |
| 49 | Kinetic of Thermal Degradation of Chlorophyll in Green Leafy Vegetables and Increasing the Shelf life of the vegetables                                               | NIT Raipur, Raipur                          | Chhattisgarh   | 0.1171 | 0.1025 |
| 50 | Enzymatic synthesis of Theanin: A nutraceutical using microbial $\gamma$ -glutamyltranspeptidase                                                                      | University of Delhi, South Campus           | Delhi          | 0.23   | 0.1894 |
| 51 | Development and Optimization of Edible Coating Formulations to Improve the Postharvest Quality and Shelf-life of Underutilized Short Lived Fresh Fruits by using RSM  | Sardar Patel University, Vallabh Vidyanagar | Gujarat        | 0.1712 | 0.1619 |
| 52 | Study on development of dietary fibre enriched designer meat products                                                                                                 | LUVAS, Hissar                               | Haryana        | 0.549  | 0.5355 |
| 53 | Production of n-3 Polyunsaturated Fatty Acids Concentrate from Sardine Oil                                                                                            | NIT, Mangalore                              | Karnataka      | 0.4679 | 0.3981 |
| 54 | Nutritionally Enriched Innovative Convenience Foods Suitable for Industrial Production from Underutilized Grains                                                      | CFTRI, Mysuru                               | Karnataka      | 0.2    | 0.1774 |
| 55 | Comparative Evaluation of Enzymatic and Fermentative methods for Preparation of Chicken liver Hydrolystates: Recovery, Biofunctional Characterization and Application | CFTRI, Mysuru                               | Karnataka      | 0.4164 | 0.3946 |

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| 56 | Development of Process for nanoencapsulation of polyphenols for food supplement applications                                                        | CFTRI, Mysuru                                                     | Karnataka   | 0.2029 | 0.185  |
| 57 | Studies in Physico-Chemical Properties of Plasma Processed Rice grains                                                                              | ICT, Mumbai                                                       | Maharashtra | 0.2238 | 0.1777 |
| 58 | Development of Continous and Energy Efficient Cooking Devices and Practices                                                                         | ICT, Mumbai                                                       | Maharashtra | 0.2583 | 0.1691 |
| 59 | Studies for the selective separation of proteins from milk whey                                                                                     | NCL, Pune                                                         | Maharashtra | 0.2074 | 0.1761 |
| 60 | Microwave (MV) Enhanced Air Heating and Drying System for Value addition of Agro-based Products: Dehydration and Disinfestations                    | IIT Mumbai                                                        | Maharashtra | 0.247  | 0.1966 |
| 61 | Isolation modification of nonconventional sources of starch from North Eastern Region and their potential food application                          | CAU, Tura                                                         | Meghalaya   | 0.4018 | 0.3559 |
| 62 | Development of Fortification Technology for Milk to Increase Bioavailability of Mineral                                                             | GADVASU, Ludhiana                                                 | Punjab      | 0.7072 | 0.6866 |
| 63 | 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   | 0.8726 | 0.8715 |
| 64 | Design and development of Ohmic Heating System for Pasteurization of Liquid Egg White and to Enhance the Functional Properties of Egg White Albumen | TNAU, Coimbatore                                                  | Tamil Nadu  | 0.2028 | 0.1514 |
| 65 | Design and Evaluation of a Tamarind Fruit dehuller and Deseeder                                                                                     | TNAU, Coimbatore                                                  | Tamil Nadu  | 0.1044 | 0.0853 |
| 66 | Feasibility Study of Pulse Power Technique: Alternative Technology for Water Treatment                                                              | IIT Madras                                                        | Tamil Nadu  | 0.2999 | 0.2549 |
| 67 | Development of database for Indian seafood safety and traceability based on AFLP markers                                                            | TNVAS, Thoothukudi                                                | Tamil Nadu  | 0.3145 | 0.3105 |
| 68 | Prebiotic Efficacy of Xylooligosaccharides (XOS) and their Food Applications                                                                        | 1. TNAU, Coimbatore<br>2. Anna University, Tamil Nadu             | Tamil Nadu  | 0.277  | 0.2384 |

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| 69 | Development of Technologies for Novel Food products based on Indigenous Technologies                                  | NIFTEM. Thanjavur                                    | Tamil Nadu     | 0.3907  | 0.3271 |
| 70 | Development Stability and consumer acceptance of omega-3 enriched functional food                                     | TNAU, Chennai                                        | Tamil Nadu     | 0.5291  | 0.4724 |
| 71 | Formulating value added products from minor tubers for food and industrial uses                                       | TNAU, Madurai                                        | Tamil Nadu     | 0.1308  | 0.0784 |
| 72 | Bacteriophages-A novel biopreservative for vegetable                                                                  | TNAU, Coimbatore                                     | Tamil Nadu     | 0.6709  | 0.6434 |
| 73 | Development of Shelf Stable Chicken Meat Products with Natural Preservatives-A Hurdle Technology Approach             | Verterinary College and Research Institute, Namakkal | Tamil Nadu     | 0.319   | 0.247  |
| 74 | Nanopatterning with low temperature process for the production of instant foaming soluble coffee                      | NIFTEM. Thanjavur                                    | Tamil Nadu     | 0.4884  | 0.4616 |
| 75 | Development of ready-to-serve fish products through flexible retort pouch technology for Northeast Markets            | Central Agricultural University, Agartala            | Tripura        | 0.264   | 0.2382 |
| 76 | Development and Production Technologies for Guava Pulp Enriched Fermented Dairy Products                              | BHU, Varanasi                                        | Uttar Pradesh  | 0.4127  | 0.3251 |
| 77 | Development of Antimicrobial polymeric nanocomposite film from PET waste for packaging of milk and milk products      | University of Calcutta, Kolkata                      | West Bengal    | 0.48291 | 0.4408 |
| 78 | Development of a three dimensional culture system to produce meat from chicken satellite cells                        | GITAM University, Visakhapatnam                      | Andhra Pradesh | 0.15    | 0.15   |
| 79 | Pilot Scale Process Technology for ' BHIM KOL ' (MUSA BALBISIANA) Slice, Grits and Powder using Hybrid Drying Methods | Tezpur University, Napaam                            | Assam          | 0.3616  | 0.3616 |
| 80 | Studies on development of cereal based functional breakfast food from the underutilized crops of North-East India     | Tezpur University, Napaam                            | Assam          | 0.2902  | 0.2901 |
| 81 | Development of Phenolic Enriched Multigrain Bread with Improved Functional Quality                                    | IARI, New Delhi                                      | Delhi          | 0.4981  | 0.4712 |
| 82 | Biotechnological approaches for utilisation of deoiled seed cakes in producing food enzymes and chemicals             | IIT Delhi                                            | Delhi          | 0.2291  | 0.2115 |

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| 83 | In vitro assessment of the effects of commercially available nutraceuticals and oligosaccharides as prebiotics on the human gut microflora                           | IIT Delhi                                                                                                                              | Delhi     | 0.2323 | 0.2115 |
| 84 | Development of Process of Technology for Functional Snack Food Using Flaxseed                                                                                        | A.D. Patel Institute of Technology, Anand                                                                                              | Gujarat   | 0.0404 | 0.0404 |
| 85 | Healthy Foods: Production of Stable and Active Probiotics                                                                                                            | NDRI, Karnal                                                                                                                           | Haryana   | 0.3582 | 0.28   |
| 86 | Development of Strip based detection tests for selected adulterants and contaminants in milk                                                                         | NDRI, Karnal                                                                                                                           | Haryana   | 0.4984 | 0.3957 |
| 87 | Development of Chromatographic and PCR Based Methodology to Ascertain the Quality of Milk Fat and its Validation under Filed Conditions                              | NDRI, Karnal                                                                                                                           | Haryana   | 0.1485 | 0.1118 |
| 88 | Production of buffalo casein hydrolysates enriched with antioxidative and immunomodulatory peptides and their application for the development of functional beverage | NDRI, Karnal                                                                                                                           | Haryana   | 0.5    | 0.4666 |
| 89 | Mineral bound milk based ingredients: Preparation, characterization and application                                                                                  | NDRI, Karnal                                                                                                                           | Haryana   | 0.4685 | 0.4165 |
| 90 | Preparation and Characterization of Nanoemulsions of Curcumin for their use in Functional Foods                                                                      | NDRI, Karnal                                                                                                                           | Haryana   | 0.1997 | 0.1488 |
| 91 | Extraction of resistant starch from Horse chestnut and rice, its utilization as an encapsulating agent for targeted delivery into the clone                          | University of Kashmir, Srinagar                                                                                                        | J&K       | 0.5545 | 0.5545 |
| 92 | Use of Natural Resins and Gums for Preservation and Value Addition of Fishery Products                                                                               | 1. Indian Institute of Natural Resins & Gums, Ranchi<br>2. Mumbai Research Centre of Central Institute of Fisheries Technology, Mumbai | Jharkhand | 0.4355 | 0.2713 |
| 93 | Biotechnological approaches to regulate fermentation and drying process of cocoa.                                                                                    | CFTRI, Mysuru                                                                                                                          | Karnataka | 0.2036 | 0.1597 |

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| 94  | Biotechnological Production of Bioactive Metabolites from Therapeutic Fungal Biofactory <i>Ganoderma</i> sp. for Pharmaceutical Applications | CFTRI, Mysuru                                            | Karnataka   | 0.2676 | 0.1988 |
| 95  | Reverse Micellar Extraction of Lactoferrin from Whey: Continuous Process                                                                     | NIT, Mangalore                                           | Karnataka   | 0.376  | 0.3221 |
| 96  | Scale up of chitosan based coating formulation for preservation of selected fruits                                                           | CFTRI, Mysuru                                            | Karnataka   | 0.2189 | 0.2096 |
| 97  | Red Sorghum flakes based snack bar for health and nutritional security                                                                       | University of Agricultural Sciences, Dharwad             | Karnataka   | 0.3692 | 0.322  |
| 98  | Microencapsulation of anthocyanin pigment extracted from kokam ( <i>Garcinia indica</i> ) processing industry waste                          | Shivaji University                                       | Maharashtra | 0.3347 | 0.3145 |
| 99  | Studies on Post Harvest Application of 1-MCP on Shelf Life and Quality of Mango and Tomato Fruits                                            | Dr. Baba Saheb Amedkar Marathwada University, Aurangabad | Maharashtra | 0.3872 | 0.3872 |
| 100 | Biochemical composition of Bombay duck fish, and functional characterisation of its muscle proteins                                          | CIFE, Versova                                            | Maharashtra | 0.25   | 0.2156 |
| 101 | Synthesis and Characterization of Nano-Cellulose and its Application in Biodegradable Polymer Composite Films for Food Packaging             | ICT, Mumbai                                              | Maharashtra | 0.3273 | 0.2391 |
| 102 | Extraction and Concentration of Bioactive Compounds and Sugars from Horticultural Processing Waste using Microwave-Membrane Technology       | IIT Mumbai                                               | Maharashtra | 0.2763 | 0.264  |
| 103 | Validation of Nutracitically important plant resources in India by DNA Barcoding using various Gene Markers of India                         | Dr. Baba Saheb Amedkar Marathwada University, Aurangabad | Maharashtra | 1.5    | 1.47   |
| 104 | Processing and Packaging of Tender Coconut Water for Rural Market                                                                            | IIP Mumbai                                               | Maharashtra | 0.4666 | 0.3158 |
| 105 | Chemical, rheological and processing quality of fractions produced by successive size reduction milling of different wheat varieties         | GNDU, Amritsar                                           | Punjab      | 0.692  | 0.666  |

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| 106 | Improving the microbial safety and nutritional quality of fresh meat using a low cost refrigerated cabinet for retail marketing of meat in street meat shops                 | Central Institute of Post Harvest Engineering and Technology, Ludhiana | Punjab     | 0.1169 | 0.0784 |
| 107 | Development and Quality Evalution of Gluten free Products for Celiac Disease Patients                                                                                        | GNDU, Amritsar                                                         | Punjab     | 0.4542 | 0.4442 |
| 108 | Ultrasound processing of liquid food: Feasibility and Efficacy.                                                                                                              | NIFTEM. Thanjavur                                                      | Tamil Nadu | 0.0998 | 0.0868 |
| 109 | Phosphine and Carbon dioxide (CO <sub>2</sub> ) Combinations as Alternative to Methyl Bromide to Manage Stored Pests of rice Under Bulk Storage                              | NIFTEM. Thanjavur                                                      | Tamil Nadu | 0.398  | 0.3329 |
| 110 | Package of Technologies for On-farm Processing, Value Addition and Safe Storage of Onions                                                                                    | NIFTEM. Thanjavur                                                      | Tamil Nadu | 0.4997 | 0.4592 |
| 111 | Developing New Technologies for Processing Sugarcane Juice                                                                                                                   | Sugarcane Breeding Institute, Coimbatore                               | Tamil Nadu | 0.3835 | 0.3835 |
| 112 | Developing Post Harvest Mechanization Package for Banana Central Core                                                                                                        | Central Institute of Agricultural Engineering, Coimbatore              | Tamil Nadu | 0.3796 | 0.3085 |
| 113 | Functionalized polymers for processing of soymilk and apple juice                                                                                                            | IICT, Hyderabad                                                        | Telangana  | 0.3334 | 0.2967 |
| 114 | Development of Value added food products from Leaf Lrotein concentrate of Green Leafy Vegetables of Assam                                                                    | Tezpur University, Napaam                                              | Assam      | 0.2155 | 0.2126 |
| 115 | Development of a Process for Effective use of Acetylcholinesterase (AChE) Biosensors for Quantification of Organophosphate and Organocarbamate Pesticide Residues in Produce | Tezpur University, Napaam                                              | Assam      | 0.1279 | 0.1279 |
| 116 | Development of value added products from Minor Fruits of Assam                                                                                                               | Assam Agricultural University                                          | Assam      | 0.6593 | 0.6204 |
| 117 | Evaluation of Green Functional Foods fortified with Cereal grassesd in reducing risk of Metabolic Syndrome                                                                   | NIFTEM, Kundli, Sonapat, Haryana                                       | Haryana    | 0.275  | 0.142  |
| 118 | Developing Inexpensive, Disposable and Biodegradable Food Containers Using Agricultural Wastes                                                                               | Jain University, Bangalore                                             | Karnataka  | 0.0754 | 0.0677 |

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| 119 | Scale-Up and Down Stream Processing of Stable Pigment & Key Metabolites from Morus Alba                                                                                         | CFTRI, Mysuru                                  | Karnataka   | 0.2758 | 0.198  |
| 120 | Isolation and screening for native wine yeast cultures for the production of Indian Wine                                                                                        | CFTRI, Mysuru                                  | Karnataka   | 0.7001 | 0.4433 |
| 121 | Edible Confectionery Chews and Functional Beverage Mix for Increased/Sustenance of Energy Levels in Sports Personnel                                                            | CFTRI, Mysuru                                  | Karnataka   | 0.1317 | 0.1183 |
| 122 | Development of technology for production of multigrain semolina mixes and its food application                                                                                  | CFTRI, Mysuru                                  | Karnataka   | 0.2983 | 0.2901 |
| 123 | Approaches to Value Addition of the Chow-Chow Fruit by its Fermentation to a Nutritionally Improved Product                                                                     | State Institute of Rural Development, Nongsder | Meghalaya   | 0.33   | 0.2475 |
| 124 | Development of Functional Mixed Starter Culture for Idli Using Microbial Biodiversity and Interrelationship                                                                     | Pondicherry University, Pondicherry            | Pondicherry | 0.488  | 0.4777 |
| 125 | Encapsulation of Natural Bioactive Compounds and Micronutrients for the enhancement of Nutritive, Preservative and Processing functionality of Meat products                    | GADVASU, Ludhiana                              | Punjab      | 0.55   | 0.5298 |
| 126 | Reviving the Utilization of Millets and Minor Cereals in Chapatti to Deliver Bioactive Components                                                                               | GNDU, Amritsar                                 | Punjab      | 0.5288 | 0.4494 |
| 127 | Isolation and Characterization of Dairy Flora of Punjab Region as Probiotic with Bio-therapeutic Potential and Development of Preservation Technology for Ready to Use Cultures | GADVASU, Ludhiana                              | Punjab      | 0.7055 | 0.6854 |
| 128 | Lactic acid bacteria of functional interest in nutrition of finger millet                                                                                                       | TNAU, Coimbatore                               | Tamil Nadu  | 0.2184 | 0.2117 |
| 129 | Industrial Process Development for Meat Preservation by Natural extracts                                                                                                        | Anna University, Chennai                       | Tamil Nadu  | 0.3584 | 0.3488 |
| 130 | Evaluation of Physiochemical, Nutritional, Pasting and Textural Characteristics of Processed Millets Based Foods                                                                | Periyar University, Salem                      | Tamil Nadu  | 0.4378 | 0.4276 |
| 131 | Fabrication of Highly Sensitive nanocomposited MnO <sub>2</sub> /CNTs Based Sensor for Detection of Hydrogen Peroxide in Milk                                                   | Bishop Heber College, Tiruchirappalli          | Tamil Nadu  | 0.3982 | 0.3838 |

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| 132 | Utilization of pumpkin for development of carotene rich extruded and other value added products                                                                                             | CFTRI, Hyderabad                 | Telangana     | 0.2976 | 0.2831 |
| 133 | Development of intelligent packaging sensors for monitoring quality and safety of meat and meat products in supply chain                                                                    | IVRI, Bareilly                   | Uttar Pradesh | 0.4467 | 0.3689 |
| 134 | Development of Nano-Immuno Rapid Test to detect Mycobacterium avum subspecies paratuberculosis in Milk samples                                                                              | CIR Goat, Makhdoom               | Uttar Pradesh | 0.6578 | 0.4623 |
| 135 | Biodegradable Polymer based Thermally Conductive Packaging Films 'Thermo-Pack'                                                                                                              | IIT Guwahati                     | Assam         | 0.385  | 0.3459 |
| 136 | Development of shelf stable pork products using retort processing technology for promoting entrepreneurship in north eastern states of India                                                | NRC Pig, Guwahati                | Assam         | 0.4415 | 0.4319 |
| 137 | Evaluation of nutritive values of wild and cultivated edible insects of Assam and their processing for boosting shelf life and rural economy                                                | Gauhati University, Guwahati     | Assam         | 0.3892 | 0.3346 |
| 138 | Effects of Microfluidization on the quality of fruit flavoured and low fat yoghurt                                                                                                          | NIFTEM, Kundli, Sonapat, Haryana | Haryana       | 0.5458 | 0.358  |
| 139 | Technology of Heart Friendly Herbal - Milk Smoothe with Prophylactic Effect against CVD and Associate Risks                                                                                 | NDRI, Karnal                     | Haryana       | 0.4336 | 0.3623 |
| 140 | Evaluation of Anti-biofilm, Anti-microbial effect of natural compounds against food - bourne pathogens                                                                                      | NIFTEM, Kundli, Sonapat, Haryana | Haryana       | 0.3431 | 0.2756 |
| 141 | Identification and characterisation of bioactive metabolites from the fruits of under-utilized plants: Malpighia glabra and Ixora coccinea their post-harvest processing for value addition | CFTRI, Mysuru                    | Karnataka     | 0.4054 | 0.3948 |
| 142 | Development of equipment for grating cum seed separation of Amla and a process for production of green Amla powder                                                                          | CFTRI, Mysuru                    | Karnataka     | 0.1436 | 0.1338 |
| 143 | Development of technologies for value addition to under utilized rhizomes                                                                                                                   | CFTRI, Mysuru                    | Karnataka     | 0.2976 | 0.2373 |

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| 144 | Technologies for Development of Value Added Products from Green Coffee                                                                                                                                                                | CFTRI, Mysuru                    | Karnataka   | 0.3442 | 0.3014 |
| 145 | Intensified Recovery of Valuable Products from Whey using Ultrasound                                                                                                                                                                  | ICT, Mumbai                      | Maharashtra | 0.4141 | 0.3645 |
| 146 | Development of Cost Effective Microwave-Infrared-UV Assisted Continuous Sterilization Process for Spices                                                                                                                              | NIT, Rourkela                    | Odisha      | 0.5362 | 0.5255 |
| 147 | Rapid and confirmatory detection of important animal meat based food borne pathogens and its associated toxicants and natural toxicants by using immuno-histopathological and molecular techniques- A step towards One Health Concept | GADVASU, Ludhiana                | Punjab      | 0.4746 | 0.43   |
| 148 | Industry waste water treatment adopting pulsed power technique                                                                                                                                                                        | IIT Madras                       | Tamil Nadu  | 0.603  | 0.5957 |
| 149 | Identification of sustainable technologies for value chain development of Jackfruit                                                                                                                                                   | NIFTEM, Thanjavur                | Tamil Nadu  | 0.5186 | 0.4035 |
| 150 | Solar Energy Assisted On-Farm Thresher Cum Winnowing Processing Gadgets For Millet Farmers                                                                                                                                            | NIFTEM, Thanjavur                | Tamil Nadu  | 0.4862 | 0.3931 |
| 151 | Production of Selenium enriched functional meat through nutrient supplementation in sheep                                                                                                                                             | NRC Meat, Hyderabad              | Telangana   | 0.5122 | 0.4929 |
| 152 | Extraction of Proteins and Phytic Acid from Waste Rice Bran using Biocatalysis                                                                                                                                                        | IICT, Hyderabad                  | Telangana   | 0.3717 | 0.3706 |
| 153 | Development of nutrient rich, low GI multiple whole grain products                                                                                                                                                                    | NIN, Hyderabad                   | Telangana   | 0.45   | 0.4332 |
| 154 | Detection and Quantification of Animal Body Fat (Tallow)/Vegetable Fat in Milk Fat/Ghee                                                                                                                                               | NRC Meat, Hyderabad              | Telangana   | 0.984  | 0.9631 |
| 155 | Production of functional dahi by isolated probiotic strain from breast fed human baby                                                                                                                                                 | Bidhannagar College, Bidhannagar | West Bengal | 0.2522 | 0.1486 |
| 156 | Development of Functional Fish Sausage for Promoting Entrepreneurship                                                                                                                                                                 | CIFE, Kolkatta                   | West Bengal | 0.4331 | 0.33   |

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| 157 | Novel, non-thermal, energy efficient, industrially scalable hydrodynamic cavitation processing of apple juice for enhanced nutritional bioactives and shelf life extension                 | ICT, Mumbai                                                            | Maharashtra | 0.441  | 0.3729 |
| 158 | Development of bio-fumigation system for safe storage of food commodities against stored product insect pests                                                                              | CFTRI, Mysuru                                                          | Karnataka   | 0.1646 | 0.1077 |
| 159 | Effective utilization of bio-waste from small onion in food processing applications                                                                                                        | NIFTEM, Thanjavur                                                      | Tamil Nadu  | 0.3437 | 0.3266 |
| 160 | Development of Good Quality and Healthy Ready to Drink Concoction of Milk Tea                                                                                                              | GADVASU, Ludhiana                                                      | Punjab      | 0.4112 | 0.3972 |
| 161 | Development of an Antimicrobial Protein/Peptide for Food Industries                                                                                                                        | CFTRI, Mysuru                                                          | Karnataka   | 0.6678 | 0.6048 |
| 162 | Application of Refractance Window Dryer in Food Industry/ Food Product                                                                                                                     | A.D. Patel Institute of Technology, Anand                              | Gujarat     | 0.1494 | 0.1253 |
| 163 | Effect of thermal Processing on Proximate composition and antioxidant activity Indian edible brown seaweeds sargassum wightii and development of nutraceutical and functional food from it | NIFTEM, Kundli, Sonapat, Haryana                                       | Haryana     | 0.3625 | 0.3625 |
| 164 | Integrated coconut processing unit for continuous removal of shell, testa, coconut water and dicing of coconut meat                                                                        | NIFTEM, Thanjavur, Tamil Nadu.                                         | Tamil Nadu  | 0.5192 | 0.4748 |
| 165 | Designing 3-D printed foods for personalized nutrition                                                                                                                                     | NIFTEM, Thanjavur, Tamil Nadu.                                         | Tamil Nadu  | 0.5542 | 0.5028 |
| 166 | Process optimization for oil uptake reduction using protein isolates/ hydrocolloids in the development of deep fried traditional Gujarati snacks                                           | Sardarkrushinagar Dantiwada Agricultural University, Sardarkrushinagar | Gujarat     | 0.5158 | 0.4255 |
| 167 | Preparation, characterization and evaluation of encapsulated eggplant peel extract and potato peel extract in Edible Oil                                                                   | NIFTEM, Kundli, Sonapat, Haryana                                       | Haryana     | 0.3146 | 0.2953 |
| 168 | Modification of Natural Polymers-Starches for better application in food sector                                                                                                            | ICT, Mumbai                                                            | Maharashtra | 0.3295 | 0.3083 |

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| 169 | Evaluation of tree tomatoes (tamarillo) of Nagaland utilizing the pulp, peel and seeds for its commercialization                                                                                                | Tezpur University, Napaam                                   | Assam         | 0.3304 | 0.3158 |
| 170 | Development of instant probiotic fruit juice powder                                                                                                                                                             | NIFTEM, Kundli, Sonapat, Haryana                            | Haryana       | 0.344  | 0.257  |
| 171 | Development of functional food products from mycelium of medicinal mushrooms                                                                                                                                    | IIT Delhi                                                   | Delhi         | 0.67   | 0.5753 |
| 172 | Value added products from poultry sleeves for environmental and economical viability of poultry processing                                                                                                      | IVRI, Bareilly                                              | Uttar Pradesh | 0.5005 | 0.463  |
| 173 | Development of a protocol for reduction of acrylamide levels in selected potato based snack foods                                                                                                               | NIFTEM, Kundli, Sonapat, Haryana                            | Haryana       | 0.2604 | 0.2551 |
| 174 | Effect of dual modifications on starch isolated from various cultivars of sorghum for the production of specialty and resistant starches and evaluation of genotype diversity in cultivars using flour as model | MNNIT, Allahabad                                            | Uttar Pradesh | 0.3161 | 0.2932 |
| 175 | Development of Active Intelligent packaging system with antimicrobial agent for fruits and vegetables                                                                                                           | NIFTEM, Thanjavur, Tamil Nadu.                              | Tamil Nadu    | 0.5304 | 0.4594 |
| 176 | Extraction, purification and formulation of w-3 PUFA's dosage-form derived from plant source as a health supplement: A replacement strategy for marine based PUFA's                                             | BBAU, Lucknow                                               | Uttar Pradesh | 0.6172 | 0.5776 |
| 177 | Development of technological interventions for enhancement of quality, shelf-life, and microbiological safety of traditional/ethnic meat products (Goan Sausage and Hyderabadi Haleem)"                         | ICAR-National Research Centre on Meat, Telangana, Hyderabad | Telangana     | 0.25   | 0.2277 |
| 178 | Development of an edible coating containing bioactives from mulberry leaves for the management of bell pepper anthracnose                                                                                       | CFTRL, Mysuru                                               | Karnataka     | 0.252  | 0.1908 |
| 179 | Design and development of hot air assisted continuous Infrared drying system for high value fish and fishery products                                                                                           | CIFT, Cochin                                                | Kerala        | 0.2702 | 0.2502 |

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| 180 | Technology development for micronutrient fortification of semolina, dalia, bansi rava and its utilization in traditional and pasta products | CFTRI, Mysuru                  | Karnataka     | 0.295  | 0.2439 |
| 181 | Utilization of pulse milling by-product for edible use                                                                                      | IIPR, Kanpur                   | Uttar Pradesh | 0.54   | 0.489  |
| 182 | Formulation and antioxidant evaluation of value added convenience foods using processed millets                                             | Periyar University, Salem      | Tamil Nadu    | 0.422  | 0.4095 |
| 183 | Probiotic enriched vitamin B12 fortified food products                                                                                      | Anna University, Chennai       | Tamil Nadu    | 0.4803 | 0.4585 |
| 184 | Development of Immunomodulatory Exopolysaccharides Containing Healthy Fermented Dairy Foods                                                 | NDRI, Karnal                   | Haryana       | 0.4125 | 0.327  |
| 185 | Development of diversified millet products for the nutritional security of future generations and improving livelihood of millet farmers    | NIFTEM, Thanjavur, Tamil Nadu. | Tamil Nadu    | 0.4685 | 0.4039 |
| 186 | Integrated Processing of Beverages from Minor Tropical Fruits: Process Optimization and Shelf-Life Extension                                | ICT, Mumbai                    | Maharashtra   | 0.3647 | 0.2641 |
| 187 | Development of non-dairy synbiotic food to ensure food safety and combat hidden hunger deficiency.                                          | NIFTEM, Thanjavur, Tamil Nadu. | Tamil Nadu    | 0.303  | 0.2541 |
| 188 | Studies on application of natural antimicrobial peptides for enhancing shelf life of milk and meat products                                 | LUVAS, Hissar                  | Haryana       | 0.4054 | 0.3163 |
| 189 | Effect of parboiling and germination on composition, functional and processing Characteristics of paddy rice cultivars                      | GNDU, Amritsar                 | Punjab        | 0.7308 | 0.7042 |
| 190 | Design, development and application of novel functional nanofiltration membranes for the processing of vegetable oils                       | CFTRI, Mysuru                  | Karnataka     | 0.5122 | 0.5122 |
| 191 | Development of Processing Technology and Prototype Unit for Manufacture & Shelf Life Extension of Sugarcane Juice                           | IIT KGP                        | West Bengal   | 0.539  | 0.3695 |
| 192 | Development of millet based gluten-free breads                                                                                              | CSIR-CFTRI, Mysuru, Karnataka  | Karnataka     | 0.286  | 0.218  |

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| 193 | Development of calcium enriched high milk protein powder for convenience formulations of traditional dairy products | NDRI, Karnal, Haryana                                                                                                 | Haryana     | 0.2221 | 0.1958  |
| 194 | Development of value added products from coffee leaves                                                              | CSIR-CFTRI, Mysuru, Karnataka                                                                                         | Karnataka   | 0.1925 | 0.09625 |
| 195 | Evaluation of poly-spice (functional food) formulation for diabetes and its complications                           | NIN, Hyderabad                                                                                                        | Telangana   | 0.3942 | 0.3368  |
| 196 | Development of process for production of coconut sap (Neera) sugar crystals and granules                            | NIFTEM, Thanjavur, Tamil Nadu.                                                                                        | Tamil Nadu  | 0.4536 | 0.3985  |
| 197 | Waste of wealth: Extracting nutraceutical (polyphenols) from tropical fruits residue by biorefinery approach        | Visvesvaraya National Institute of Technique, Nagpur                                                                  | Maharashtra | 0.3279 | 0.3279  |
| 198 | Development of natural food additives by utilizing grapes processing wastes                                         | Central for post harvest technology, Agricultural Engineering College and Research University, Coimbatore, Tamil Nadu | Tamil Nadu  | 0.175  | 0.1557  |
| 199 | Design and Development of Continuous Rice Cooking Machine                                                           | CSIR-CFTRI, Mysuru, Karnataka                                                                                         | Karnataka   | 0.316  | 0.2405  |
| 200 | Development of methods to assess the chemicals migration from the packaging used for dairy products                 | NDRI, Karnal, Haryana                                                                                                 | Haryana     | 0.2373 | 0.1761  |
| 201 | Development of anti-inflammatory functional food from Norabogori (Prunus persioca) of Assam                         | Tezpur University, Tezpur, Assam                                                                                      | Assam       | 0.2771 | 0.2555  |
| 202 | Process technology for instant mixes for varieties of payasam, Kheer and Phirni using Dry Crystallisation Approach  | NDRI, Southern Regional station Bangaluru, Karnataka                                                                  | Karnataka   | 0.0843 | 0.0551  |
| 203 | Refinement of traditional fermentation technology of some vegetable pickles of J&K region                           | Dept. of Food Science and Technology, University of Kashmir                                                           | J&K         | 0.4271 | 0.3744  |
| 204 | Monascus Purpureus CFR 410-11 fermented cowpea Tofu as functional food                                              | Central Food Technological Research Institute, Mysore                                                                 | Karnataka   | 0.2409 | 0.2323  |

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| 205 | Development of crisps from fruits and vegetables                                                                                                                                                                         | Division of Food Science and Post harvest Technology, IARI, PUSA, New Delhi          | Delhi      | 0.2424 | 0.2206 |
| 206 | Development of value chain for multi-purpose commercial utilization of selected arid fruits                                                                                                                              | ICAR-Central Arid Zone Research Institute, Jodhpur, Rajasthan                        | Rajasthan  | 0.3239 | 0.2651 |
| 207 | Harvesting of techno-functional applications of selected bacterial exopolysaccharides from food origin                                                                                                                   | Pondicherry University, Kalapet, Puducherry                                          | Puducherry | 0.319  | 0.2204 |
| 208 | Optimization of Processing Variables for Quality Improvement of Ethnic Meat Products of Jammu and Kashmir                                                                                                                | Livestock Products Technology, Sher e Kashmir University of Agriculture & Technology | J&K        | 0.2816 | 0.243  |
| 209 | A process for enhancing production of edible eicosapentaenoic acid and docosahexaenoic acid enriched oil from fish industrial discard                                                                                    | CSIR- Central Food technological Research Institute, Mysore-570020, Karnataka        | Karnataka  | 0.4613 | 0.4034 |
| 210 | Processing of millets and pseudocereals for preparation of nutritionally enriched products                                                                                                                               | CSIR- Central Food technological Research Institute, Mysore-570021, Karnataka        | Karnataka  | 0.2379 | 0.2154 |
| 211 | Development of a bioactive encapsulated functional food product for diabetics that can modulate PPAR $\gamma$                                                                                                            | CSIR- Central Food technological Research Institute, Mysore-570022, Karnataka        | Karnataka  | 0.231  | 0.2039 |
| 212 | Pineapple fruit waste (processing by-products); characterisation and its utilisation in development of millet based probiotic fermented products                                                                         | NIFTEM. Thanjavur                                                                    | Tamil Nadu | 0.2809 | 0.2604 |
| 213 | Design and Development of a System for Trapping of Bioactive components from selected Fruits (Mango, Orange, Pineapple, Banana and Grape) and Vegetables (Onion, Carrot, Garlic, Mint and Ginger) during Drying process. | NIFTEM. Thanjavur                                                                    | Tamil Nadu | 0.3294 | 0.2717 |

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| 214 | Development of enzyme based biomarkers for rapid differentiation of fresh and frozen-thawed meat with special reference to poultry meat”                                | ICAR-Indian Veterinary Research Institute, Izatnagar, Bareilly (U.P.)          | Uttar Pradesh | 0.41752 | 0.3624 |
| 215 | Fortification of Vitamin A & D in soya milk for health benefits                                                                                                         | IIT, Kharagpur                                                                 | West Bengal   | 0.3212  | 0.31   |
| 216 | Development of Portable Fish Freshness Assessment Sensor                                                                                                                | ICAR - Central Institute of Fisheries Technology, Cochin, Kerala               | Kerala        | 0.26    | 0.2169 |
| 217 | Polycyclic Aromatic Hydrocarbons (PAHs) and Polychlorinated biphenyls (PCBs) in Indian grilled and fried fish products, prevention strategy and dietary risk assessment | NIFTEM, Kundli, Sonapat, Haryana                                               | Haryana       | 0.2915  | 0.2383 |
| 218 | Application of nano-immobilized $\beta$ -Galactosidase for production of galactooligosaccharides from dairy by-product                                                  | ICAR-NDRI, Karnal, Haryana                                                     | Haryana       | 0.4394  | 0.3197 |
| 219 | Development and standardization of Millet Based Functional Foods for distribution in a public funded program                                                            | ICAR- Indian Institute of Miller Research, rajendranagar, Hyderabad, Telangana | Telangana     | 0.4327  | 0.3335 |
| 220 | Production of dairy powder from by-products (ghee residue and butter milk): Characterization and application in heat desiccated products/convenience formulations       | ICAR-NDRI, Karnal, Haryana                                                     | Haryana       | 0.4352  | 0.3201 |
| 221 | Design and development of continuous ohmic heating system to soak and parboil traditional paddy varieties and stabilize bran                                            | NIFTEM, Thanjavur, Tamil Nadu.                                                 | Tamil Nadu    | 0.2952  | 0.2446 |
| 222 | Innovative Indigenous Technology Development for Comprehensive Valorization of waste from Citrus Fruit Processing Industries                                            | NIFTEM, Kundli, Sonapat, Haryana                                               | Haryana       | 0.5104  | 0.4679 |
| 223 | Development of an Industrial scale cold plasma unit for decontamination of fruits and vegetables                                                                        | CFTRI, Mysuru, Karnataka                                                       | Karnataka     | 0.3259  | 0.2998 |
| 224 | Ultrasound processing of liquid food on a pilot scale: Feasibility and Efficacy                                                                                         | NIFTEM, Thanjavur, Tamil Nadu.                                                 | Tamil Nadu    | 0.2974  | 0.2721 |

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| 225 | Development of pineapple leaf based biodegradable straw and paper food packaging containers (tea, coke, ice cream cups & popcorn box) | CSIR-National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram, Kerala | Kerala  | 0.2142 | 0.2001    |
| 226 | Phytochemical profiling and valorisation of Pomelo fruit of Northeast region                                                          | Tezpur University, Napaam, Assam                                                                 | Assam   | 0.4148 | 0.3754932 |
| 227 | Development of Blockchain-based Traceability Solution for Agri-Food Supply Chains                                                     | NIFTEM, Kundli, Sonapat, Haryana                                                                 | Haryana | 0.1873 | 0.1619    |