

**LIST OF PROPOSALS RECEIVED UNDER COMPETITIVE GRANTS COMPONENT OF NICRA
(with reference to Call for Proposals dated 07.02.2018)**

***Theme-1:* Effect of Elevated Temperatures due to Changing Climate on The Quality of Food, Fodder and Oilseed Crops**

S.No.	Name of the PI	Institute	Title
1.1	Dr. Dipnarayan Saha Principal Scientist (Biotechnology - Agricultural Science) Division of Crop Improvement	ICAR-Central Research Institute for Jute and Allied Fibres, Nilgunj, Barrackpore, Kolkata 700121 West Bengal	Genome-wide association of fibre flax germplasm for stay-green trait under the terminal heat stress conditions
1.2	Dr. Archana Sinha Principal Scientist	ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata 700120	Effect of climate changes on population of nutrient dense small indigenous fish (SIF) and popularize the self recruited SIF to enhance livelihood in Sagar Island of Indian Sundarbans
1.3	Dr R K Kakani, Pr. Scientist (Plant Breeding)	ICAR-CAZRI, Jodhpur -342003	Phenotypic and molecular expression of heat tolerance genes in bio-fortified pearl millet parents and their hybrids
1.4	Dr Y.Ravindra Reddy, Professor, Department of Livestock Production Management,	College of Veterinary Science, S. V. Veterinary University Tirupathi-517501	Augmenting feed resources in the dry Rayalaseema region of Andhra Pradesh for sustainable Small Ruminant Production to improve livelihoods of farmers
1.5	Dr. Anjali Anand, Principal Scientist, Division of Plant Physiology	ICAR -Indian Agricultural Research Institute, New Delhi, 110 012	Exploring the effect of high day/night heat stress on grain and flour quality in late sown wheat
1.6	Dr. A.G.Sreenivas, Professor of Agricultural Entomology and Head, Centre for Agro-climatic studies	University of Agricultural Sciences, Raichur and International Crops Research Institute for the Semi- Arid Tropics (ICRISAT), Patancheru- 502324, Telangna, India	Climate Change Effects on Stem borer, Chilo partellus (Swinhoe) and their Natural Enemies in Rainfed Sorghum Production Systems: Its Effects on Sustainable Crop Production
1.7	Dr Reena, Sr. Scientist (Entomology), Advanced Center for Rainfed Agriculture	SKUAST-Jammu, Dhiansar, Bari - Brahmana - 181133	Emerging Insect pest risk with the changing climate in cereal crops in the lower ranges of Jammu

1.8	Dr. S. Sheraz Mahdi Assistant Professor, Agronomy, Mountain Research Centre for Field Crops	Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST- K), Khudwani, Anantnag-192 102, Kashmir, (J&K), India	Impact of season long temperature increase on quality and yield of aromatic rice land race 'MushkBudji' under temperate climatic conditions of Kashmir, J&K, India
1.9	Dr. P. Meenakshi sundaram, Department of biotechnology	Department of Biotechnology, Agricultural College and Research Institute, Madurai – 625 014	Discovering genes contributing to 'grain quality' in elevated temperatures: Comparative transcriptome profiling in rice
1.10	Dr. Amaregouda A. Professor & Head, Department of Crop Physiology, College of Agriculture	University of Agricultural Sciences, Raichur-584 104 , Karnataka , INDIA	Physiological and molecular basis of nutrient acquisition under varied climatic conditions in maize
1.11	Dr. S. Sridhara Professor of Agronomy, College of Agriculture	University of Agricultural and Horticultural Sciences, Navile, Shivamogga-577204, Karnataka	Assessing the impact of elevated CO2 and Temperature on growth, yield and quality of maize and groundnut
1.12	Dr Prakash H. Kuchanur Professor (GPB)	University of Agricultural Sciences, Raichur-584 101, Karnataka	Effect of extreme heat stress on grain and fodder quality of heat stress resilient maize hybrids
1.13	Dr. Farooq Ahmad Lone, Head, Division of Environmental Sciences	Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir Shalimar campus -190025, J & K	Impact of climate change on the Quality of Walnut in Kashmir Himalayas
1.14	Dr. Sajad Mohi-ud-din, Assistant Professor (Sr.Scale), Division of Entomology, SKUAST-K, Shalimar	Sher-e-Kashmir University of Agricultural Sciences and Technology Kashmir, Shalimar- 190025	Blossom thrips-a major emerging problem in apple ecosystem in Kashmir
1.15	Dr. Archana Sinha, Principal Scientist	ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata 700120	Effect of elevated temperatures due to changing climate on the quality of food, fodder and oilseed crops
1.16	Dr. Suneha Goswami Scientist (Senior Scale) Division of Biochemistry	Indian Agricultural Research Institute, Pusa Campus, New Delhi, Pin 110012	Biochemical Characterization of Alteration in Starch and Gliadin/Glutenin Biosynthesis and its Effect on Wheat Grain Quality Under Terminal Heat
1.17	Dr Shamarao Jahagirdar, Professor & National PI (Soybean Pathology)	University of Agricultural Sciences, Dharwad	Microclimatic approaches towards understanding changing dynamism in disease and pest complex and upscaling of productivity of soybean under climate smart agriculture

1.18	Dr Sudheendra A Ashtaputre, Professor (Plant Pathology)	University of Agricultural Sciences, Dharwad	Microclimatic approaches to develop forewarning systems for insect pests and diseases of soybean crop in northern Karnataka
1.19	Dr. V. Govindasamy, Scientist (Agril. Microbiology),	ICAR-National Institute of Abiotic Stress Management, Malegaon-Khurd, Baramati- 413 115, Pune District, Maharashtra	Identification of compatible plant genotype-rhizobia and development of resilient symbiotic systems in leguminous oilseed crops to high temperature stress through phenomics
1.20	Dr. P. Jones Nirmalnath, Professor and Head (Agricultural Microbiology)	University of Agricultural Sciences, Krishinagar, Dhrwad-580005, Karnataka	Response of soybean (Glycine max L.), groundnut (Arachis hypogaea L.), Lucerne(Alfalfa) and below ground soil biological activities under future climate: Impacts Assessment and adaptation strategies
1.21	Dr. U.K. HULIHALLI, Professor of Agronomy & Technical Officer Directorate of Research, Department of agronomy	University of Agricultural Sciences, Dharwad	Nutritional security and Sustenance of productivity through introduction and development of climate resilient crops like Buckwheat, pseudo-cereals and Millets
1.22	Dr H. Ravindra, Chief Scientist (Tobacco) and Principal Investigator, AICRP (Nematodes),	Zonal Agricultural and Horticultural Research Station, University of Agricultural and Horticultural Sciences, Shivamogga-577204, Karnataka	Phytonematodes-threat to major horticulture crops grown under protected conditions of Karnataka
1.23	Dr Prabhjyot Kaur, Senior Agrometeorologist & Head	Punjab Agricultural university, Ludhiana, Punjab , India 141004	Impact of elevated temperature on quality parameters of wheat crop under Punjab condition
1.24	Dr. Nand Kishore Jat, Scientist (Agronomy)	1 ICAR- Central Arid Zone Research Institute, Light Industrial Area, Near ITI, Jodhpur (Rajasthan)-342 003 2 Division of Seed Science and Technology, ICAR- IARI, New Delhi-110012	Pearl millet seed pelleting with hydrogel and zinc to mitigate early drought and temperature stress for enhancing crop sustainability, yield and quality under arid rainfed system
1.25	Dr. P. Krishnan, Pr. Scientist	Indian Agricultural research Institute. New Delhi - 110012	Characterizing the changes in seed quality of oilseed crops under high temperature stress conditions using non-destructive NMR technique

1.26	Dr. Mamrutha HM Scientist (Plant Physiology)	ICAR-Indian Institute of Wheat and Barley, Research, Karnal, Haryana- 132 001	Assessing the heat, drought and waterlogging stress induced changes in wheat grain quality and composition in the context of climate change scenario
1.27	Dr Gurdev Chand PhD, FSERS Assistant Professor (Senior Scale)	her-e-Kashmir University of Agriculture Sciences and Technology, Chatha, Jammu- 180009.	Enhancing heat tolerance in chickpea (cicer arietinum L.) And mitigating impacts of climate change in sub- tropical region of jammu
1.28	Dr. Gyanendra Kumar Rai Asstt. Prof.	School of Biotechnology SKUAST-Jammu, Chatha, Jammu-180009, J&K	Development of climate resilient wheat with high yield and improved quality
1.29	Dr Akash Sharma, Asst. Professor	SKUAST-J, Chatha, Jammu (J&K) - 180009	IMPACT OF CLIMATIC VARIATIONS ON THE QUALITY TRAITS OF STRAWBERRY.
1.30	Dr.K.S.Shubhashree Assistant Professor (Agronomy)	AICRP on Small millets Zonal Agricultural Research Station (UAS, B), V.C.Farm, Mandya, Karnataka	Impact of elevated temperature on agronomic performance, disease incidence and quality of finger millet
1.31	Dr. Pradeep Kumar Scientist (Horticulture- Vegetable Science)	ICAR-Central Arid Zone Research Institute, Jodhpur-342003, Rajasthan.	Improving heat stress tolerance in tomato by grafting
1.32	Dr.M.A.Ananthakumar, Assistant Professor, Water Technology Centre	Zonal Agricultural Research Station, UAS (B) V C Farm, Mandya-571405	Application of Remote Sensing and GIS in mapping cropping system in KRS Reservoir of Cauvery command area and designing efficient cropping system for water and crop productivity under climate change mediated elevated temperature
1.33	Dr. Mohan Kumar, R Assistant professor (Agronomy)	Agricultural Research Station, Konehally, University of Agricultural Sciences, Bengaluru- 65	Agronomic and physiological manipulation for unlocking productivity through sex expression in castor genotypes
1.34	Dr. M.Senthilkumar Assistant Professor	Department of Agricultural Microbiology, TamilNadu Agricultural University, Coimbatore – 641 003, TamilNadu	Transcriptoming the interactive effect of groundnut response to Methylobacterium under elevated temperature in low irrigation production systems
1.35	Dr. Amit Verma Asst. Professor (Plant Biochemistry), Dept. of Biochemistry, College of Basic Sciences & Humanities	Sardarkrushinagar Dantiwada Agricultural University, SK Nagar, Gujarat-385506 (Dist. Banaskantha)	Studies on pulse crops under elevated CO2 for the advent of climate smart agriculture

1.36	Dr Puspendu Dutta Assistant Professor, Department of Seed Science & Technology	Uttar Banga Krishi Viswavidyalaya Pundibari, Cooch Behar, West Bengal-736 165	Modelling the impact of changing micro-climate in relation to quality seed production of rice
1.37	Dr Khalid Mushtaq Associate Professor – cum-Senior Scientist, Division of Fruit Science	Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir. Shalimar, Srinagar. Jammu and Kashmir	Characterization of Almond (<i>Prunus amygdalus</i> Batsch) genotypes by physiological, biochemical and gene- expressional variations for identification of resilient types
1.38	Dr. Rupsanatan Mandal Assistant Professor in Genetics and Plant Breeding and In-Charge, Central Germplasm Conservation Unit, Scientist Room No. 1, RRSTZ, Directorate of Research,	Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch, Behar, West Bengal, India	Impacts of short-term high temperature on grain quality of extinct indigenous aromatic rice in West Bengal
1.39	Dr Sharmistha Barthakur, Principal Scientist	ICAR-NRC Plant Biotechnology, Pusa Campus, New Delhi 110012	Translatome and translational regulation under terminal heat stress in wheat

Theme-2: Carbon Footprinting of Agriculture in different Agro-Ecologies

S.No.	Name of the PI	Institute	Title
2.1	Dr RK Setia, Scientist SD	Punjab Remote Sensing Centre, PAU Campus, Ludhiana-141004	The influence of soil matric potential on organic carbon turnover and nutrient cycling in salt-affected soils
2.2	Dr. G.P. Obi Reddy, Principal Scientist, Division of Remote Sensing Application,	National Bureau of Soil Survey & Land Use Planning (ICAR), Amravati Road, Nagpur-440 033, India	Mapping and monitoring of rice- fallows in changing climate scenario in different agro-ecological regions of Eastern India using time series remote sensing and GIS for intensification of climate resilient short term legume systems
2.3	Dr Ritesh Saha, Pr. Scientist, Crop Production Division.	ICAR-Central Research Institute for Jute and Allied Fibres, Nilgunj, Barrackpore, Kolkata-700120	Enhancing Resilience in Jute based Production System through Conservation Agricultural Practices under Climate Change Scenario

2.4	Dr. Rajendiran Selladurai Scientist (Soil Science) Division of Soil Science and Agricultural Chemistry	ICAR-Indian Institute of Horticultural Research, Heseraghatta Lake Post, Bengaluru-560089, India	Biochar production from horticultural wastes and its utilization as biofertilizer carrier material and as soil amendment for improving soil health and productivity of horticultural crops and carbon sequestration
2.5	Dr. Amaregouda A. Professor & Head, Department of Crop Physiology	University of Agricultural Sciences, Raichur-584 104 , Karnataka	Carbon flux studies in pigeon pea crop ecosystem by eddy covariance technique
2.6	Dr. Shakeel Ahmad Mir, Assistant Professor, Div of soil science & Agricultural Chemistry	Division of Soil Science and Agricultural Chemistry, Faculty of Agriculture, SKUAST-Kashmir, Wadura, Sopore, 193201	Response of Soil Organic Carbon to Land Use vis-a-vis Climate Change in North Kashmir
2.7	Dr. Shabir Ahmed Bangroo, Assistant Professor (Soil Science)	Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir, Shalimar 190025	carbon footprinting based on life cycle assessment in apple crop production under mountain agroecological systems of kashmir
2.8	Dr. Nayar Afaq Kirmani, Assistant Professor, Soil Science, Division of Soil Science, FOH	Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Shalimar, Srinagar, J&K-190025	Spatial distribution of Soil Carbon Pools under temperate Agro- ecological region of Kashmir Himalayas using geospatial techniques
2.9	Dr Arindam Datta, Fellow	The Energy & Resources Institute, Darbari Seth Block; India Habitat Center, Lodhi Road, New Delhi 110 003	Development of an interface for farm level carbon footprint estimation
2.10	Geeta Singh, Principal Scientist, Division of Microbiology, IARI , New Delhi - 12	Indian Agricultural Research Institute, Pusa, New Delhi- 110012	Arbuscular Mycorrhiza-mediated soil carbon sequestration under conservation agriculture systems
2.11	Dr. M. A. Bhat, Associate Professor, Division of Soil Science,	Sher-e-University of Agricultural Sciences and Technology of Kashmir, Shalimar Srinagar- 190025	Municipal Solid Waste Management By Vermiculture Technology
2.12	Dr. Sudhir Kumar Mishra (Assistant Agrometeorologist)	Punjab Agricultural University, Regional Research Station, Faridkot – 15 203 (Punjab)	Carbon and water foot printing of different cropping systems under variable climatic conditions in irrigated agro ecosystems of Punjab
2.13	Dr. M. A. Bhat, Associate Professor, Division of Soil Science	Sher-e-University of Agricultural Sciences and Technology of Kashmir, Shalimar Srinagar- 190025	Municipal Solid Waste Management By Vermiculture Technology

2.14	Dr. Shivanna H, Professor & University Head, Dept. of Forest Biology	University of Agricultural Sciences, Dharwad, Karnataka	Enhancing the productivity through Carbon foot printing and Carbon sequestration in different agro-ecosystems
2.15	Dr. Khurseed Ahmad Dar , Scientist	Temperate Sericulture Research Institute, Mirgund- SKUAST Kashmir	Role of Mulberry in carbon foot printing under temperate & cold Arid regions of J&K.
2.16	Dr. K. Annamalaiathan, Jt Director (Physiology/Climate change)	Rubber Research Institute of India, Rubber Board, Kottayam-686009, Kerala state	Accounting Carbon Footprint of Natural Rubber production in the Traditional Rubber growing region in India'
2.17	Dr. P. Thimme Gowda Assistant Agronomist AICRP on Sugarcane ZARS, V. C. Farm, Mandya - 571405, Karnataka	University of Agricultural Sciences, GKVK, Bengaluru, Karnataka - 560 001	Conversion of sugarcane biomass into biochar and its significance in improving sugarcane productivity and soil health
2.18	Dr. B. K. Desai Professor and University Head, Department of Agronomy	University of Agricultural Sciences, Raichur, Lingasugur Road, Karnataka 584 104, India	Sustainable Intensification of Rice-Fallows in command area and their Carbon footprint estimation
2.19	Dr. Leela Edwin Head of Division and Principal Scientist, Fishing Technology Division	ICAR-Central Institute of Fisheries Technology, Matsyapuri, P. O., Cochin - 682029, Kerala, India	Global Warming Potential (GWP) of mechanised fishing methods of India and mitigation strategies: Analysis using Life Cycle Assessment (LCA) - Data Envelopment Analysis (DEA) approach

Theme-3: Bioprospecting Cultivable Fish Genetic and Genomic Resources for Climate Resilient Agriculture

S.No.	Name of the PI	Institute	Title
3.1	DR. SARADA KANTA BHAGABATI, Assistant Professor (Stage 2), Department of Aquatic Environment Management	College of Fisheries, Assam Agricultural University, Raha-782103, Nagaon, Assam	Bioprospecting of three indigenous fish species Cirrhinus reba (Hamilton, 1822), Puntius sophore (Hamilton, 1822) and Amblypharyngodon mola (Hamilton,1822) for diversified climate resilient aquaculture in Assam
3.2	Dr. Manoj P. Samuel, Principal Scientist & Head Engineering Division	ICAR- Central Institute of Fisheries Technology, CIFT Junction, Willingdon Island, Matsyapuri P.O., Cochin-682 029, Kerala	Green technologies for managing water quality: Design and development of water treatment systems for aquaculture and fish processing industry

3.3	Dr. Sahar Masud Associate professor (Fisheries), Farming System Research Centre	Sher-e- Kashmir University of Agricultural Sciences & Technology of Jammu (SKUAST-J), Main Campus, Chatha, Jammu, Jammu & Kashmir, 180009	Standardization of Grow out Production Technology of Clarias batrachus for Adoption of Climate Resilient Aquaculture in Jammu Region
3.4	Dr Vindhya Mohindra, Principal Scientist and Head, Fish Conservation Division,	ICAR- National Bureau of Fish Genetic Resources Canal Ring Road, P.O. Dilkusha, Lucknow, Uttar Pradesh 226002	Understanding genomic mechanisms of thermal tolerance using golden mahseer, Tor putitora as model
3.5	Dr. M. Anand, Assistant Professor	Department of Marine and Coastal Studies, School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai – 625 021. Place of Project Execution: Marine Field Research Lab at Pudhumadam, Department of Marine and Coastal Studies, Madurai Kamaraj University Pudhumadam campus Ramnad District – 623 524	Investigation of aragonite saturation horizon in the Gulf of Mannar waters - a measure of coral reef health for climate change and ocean acidificati

Theme-4: Functional Feeds for Adaptation to Climate Induced Stresses in Fisheries

S.No.	Name of the PI	Institute	Title
4.1	Dr. Pramod Kumar Pandey Dean	College of Fisheries Central Agricultural University (Imphal) Lembucherra, Tripura West- 799210	Impact of abiotic stress on growth and reproduction of cultivable fish species Ompak bimaculatus and Osteobrama belangeri of North East India under changing climatic conditions and its mitigation through functional feeds
4.2	Dr AKHIL GUPTA Associate Professor/ Senior Scientist (Fisheries), FSR Centre,	Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu (SKUAST- Jammu), Jammu, Chatha – 180 009 (J&K)	Synbiotic Feeding to Counteract Climate Stress In Aquaculture
4.3	Dr Raj Kumar, Asstt. Prof. Fisheries, FSR centre, Chatha	Sher- e- Kashmir University of Agricultural Sciences and Technology of Jammu, Chatha, PIN-180009, Jammu, J&K	Development and impact assessment of herbs based functional feeds in Aquaculture

Theme-5: Building Coral Reefs' Resilience for Adaptation to Climate Change

S.No.	Name of the PI	Institute	Title
5.1	Dr. J. Ravindran Senior Scientist	CSIR-Central Electrochemical Research Institute, Corrosion Testing Centre, Mandapam Camp – 623519	Development of a pilot scale proactive conservation technology for addressing the bleaching in corals and the resulting mortality
5.2	Dr. J. S. Yogesh Kumar Scientist D	Marine Aquarium and Regional Centre, Zoological Survey of India, Foreshore Road, Digha- 721428, West Bengal, India.	“Impact of climate change on coral reef habitat in and around Gulf of Mannar Marine National Park, southeast coast of India”
5.3	Dr. S. KUMARESAN, M.Sc., Ph.D., Assistant Professor	CAS in Marine Biology Faculty of Marine Sciences, Annamalai University, Parangipettai - 608 502, Tamil Nadu	Carbon Dioxide Sequestration and Acidification process in Lakshadweep Sea as a function of Regional Climate Change; A perspective study on Resilience of Coral Reefs
5.4	Dr. K. Jayakumar Asst. Professor	Laboratory in Coral Reef Biology Department of Animal Behavior & Physiology, School of Biological Sciences, Madurai Kamaraj University (University with Potential for Excellence), Madurai – 625021	Assessment of the resilience potential of coral reefs in the Gulf of Mannar towards recurrent episodes of coral bleaching

Theme-6: Innovative Products and Processes in Nitrogen Fertilizer use to Reduce N₂O Emissions

S.No.	Name of the PI	Institute	Title
6.1	Subhojit Datta, Principal Scientist (Biotechnology)	ICAR-Central Research Institute for Jute and Allied Fibres, Address: Nilgunj, Barrackpore Kolkata, West Bengal – 700 121	Enhancing sustainability of natural fibre production through improvement of nitrogen use efficiency (NUE) in jute using genomics assisted breeding and new-age nutrient management techniques
6.2	R. Baskar, Associate Professor, Department of Biotechnology	Indian Institute of Technology-Madras, Chennai-600036	Persistence of fertilizer effect across generations- A study towards rational use of fertilizer application
6.3	Dr Azmat Alam Khan Assoc Professor	Centre for Research on Poultry & Division of LPM, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Shuhama, Srinagar 190006 J&K	Cleaner poultry production through use of litter amendments and farm waste recycling

6.4	B. Ramakrishnan, Principal Scientist, Division of Microbiology	ICAR-Indian Agricultural Research Institute, New Delhi 110012	Microbial nitrogen-cycle gene transcripts as proxies for monitoring, and the potential of natural tannin containing substances for inhibiting N ₂ O emissions
6.5	Dr. Umesh, M.R. Scientist (Agronomy)	AICRP on Sunflower Main Agricultural Research Station University of Agricultural Sciences, Raichur, Karnataka, India- 584101	Estimation and Modelling of N ₂ O Emission under Modified 'N' fertilizers and Water Saving Techniques in Paddy crop Cycles of Tungabhadra Irrigation Command
6.6	Dr. Abir Dey, Scientist Division of Soil Science and Agricultural Chemistry (SSAC)	ICAR-Indian Agricultural Research Institute, New Delhi 110 012.	Standardization of neem-oil coating on urea granules for increasing nitrogen use efficiency and controlling nitrous oxide emission
6.7	Dr. A. Sundaramanickam, Assistant professor,	CAS in Marine Biology, Faculty of Marine sciences, Annamalai University, Parangipettai-608502 Chidambaram, Tamil Nadu, India,	Screening and application of nitrous oxide reducing bacteria from marine environment: Developmental strategies to mitigate N ₂ O emissions
6.8	Dr. P.K. Rai, Senior Scientist (Soil Science), Advanced Centre for Horticulture Research	Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu, Bhor Camp , Chatha, Jammu-180009 J&K	Development of bio-formulation for promotion of sustainable soil health of Jammu Region

Theme-7: Innovation in Protected Cultivation of High Value Crops to Reduce Damage Due to Frost and Hailstorms

S.No.	Name of the PI	Institute	Title
7.1	Dr L K Dhaliwal Professor (Agricultural Meteorology), Department of Climate Change & Agricultural Meteorology	Punjab Agricultural university, Ludhiana-141004	Cold stress tolerance strategies in vegetable crops through microclimate manipulations under protected cultivation
7.2	Dr. Rohitashw Kumar, Associate Professor	Sher-e- Kashmir University of Agricultural Sciences of Technology of Kashmir , Shalimar Campus, Srinagar- 190025 (J&K)	Design and development of protected cultivation of high density apple crop to reduce damage and increase water use efficiency: Strategies for Climate Resilience

7.3	Dr. R. Lalitha, Professor (SWCE)	Agricultural Engineering College and Research Institute, Tamil Nadu Agricultural University, Kumalur 621 712, Trichy	Temperature Gradient Modeling in a Greenhouse equipped with Evaporative Cooling Pad System in a Semi-arid Region
7.4	Dr. R. K. Singh, Project Coordinator	ICAR- Central Institute of Post- Harvest Engineering & Technology, AICRP on Plastics Engineering & Technology (PET), Ludhiana (Punjab)- 141004	Design & development of protective structures for high value crops to reduce damage from hail and frost
7.5	Dr. Rohitashw Kumar, Associate Professor	Sher-e- Kashmir University of Agricultural Sciences of Technology of Kashmir , Shalimar Campus, Srinagar- 190025 (J&K)	Design and development of protected cultivation of high density apple crop to reduce damage and increase water use efficiency: Strategies for Climate Resilience
7.6	A.SAMBIAIAH, SCIENTIST (SWE),	Saline Water Scheme, Agricultural College Farm, Bapatla, Guntur District, A.P. PIN : 522 101.	Development Of Climate Resilient Agriculture Model Using Shadenents Water Harvesting With Solar Pumping In Deteriorating Groundwater Quality Situations Andhra Pradesh Due To Climate Change

Theme-8: Impact of Surface Ozone on Crop Production in Rural Areas

S.No.	Name of the PI	Institute	Title
8.1	Dr. A.K. Singh, Principal Scientist (Soil Sci.)	ICAR-Central Research Institute for Jute and Allied Fibres, Address: Nilgunj, Barrackpore Kolkata, West Bengal – 700 121	Impact of tropospheric ozone on crop production under jute-rice-mustard cropping system
8.2	Dr. Mushtaq A. Wani, Head, Division of Soil Science & Agriculture Chemistry	S. K. University of Agricultural Sciences and Technology of Kashmir, Faculty of Agriculture & Regional Research Station, Wadura, Sopore, Division of Soil Science & Agricultural Chemistry, 193201, J&K	Simulating Current and Future Climate Effects on Maize Yield and Soil Water Balance Components under Different Scenarios, using APSIM Model
8.3	Dr Bhupinder Singh Principal Scientist,	CESCRA, ICAR-IARI, New Delhi- 110012	Impact Of Surface Ozone On Crop Productivity And Quality In The Trans-Indo Gangetic Plain
8.4	Sachin S Gunthe Associate Professor EWRE Division, Dept. of Civil Engineering	Environmental and Water Resources Engineering Division, Indian Institute of Technology Madras, Chennai – 600 036	Implication of surface ozone on crop yields over India: Integrating regional climate model with strategic field measurements

Theme-9: Development of Technologies for Effective Alternative use of Rice Straw

S.No.	Name of the PI	Institute	Title
9.1	Dr Zahoor Ahmad Bhat, Assistant Professor/Jr. Scientist	Division of Floriculture, Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir Shalimar, Srinagar (J&K) – 191 121	Use of effective alternative use of rice straw as a source of best potting nutrient medium for Tulip and Hysanthus pot culture
9.2	Dr S Karthikeyan Professor (Microbiology),	Tamil Nadu Agricultural University, Lawley Road, Coimbatore 641 003. Tamilnadu	Rice straw based hydrochar composites to sequester C and enhance soil P fertility for sustainable rice production under changing climate
9.3	Dr. Ramesh L. Gardas, Associate Professor	Indian Institute of Technology Madras, Chennai - 600036.	Rational design of energy efficient pretreatment of rice straw with ionic liquids and deep eutectic solvents for the separation of cellulose and lignin
9.4	Dr Arindam Datta, Fellow	The Energy & Resources Institute, Darbari Seth Block; India Habitat Center, Lodhi Road, New Delhi 110 003	Biochar from rice straw to reduce atmospheric pollution and carbon footprint of crop land vis-à-vis addressing food security
9.5	Dr. K. Surekha, Principal Scientist -Soil Science	ICAR – Indian Institute of Rice Research, Rajendranagar, Hyderabad – 500030	Efficient Utilization and Value addition to Rice straw for Improving Productivity and Soil Health in irrigated Rice
9.6	Dr. Deepak Jhajharia, Associate Professor	College of Agricultural Engineering & Post Harvest Technology (Central Agricultural University, Imphal, Manipur), Ranipool-737135, Gangtok, Sikkim	Development of technologies for efficient utilization of rice-straw in soilless culture of horticultural crops and medicinal plants in Sikkim
9.7	Dr Anju Arora (Scientist SG)	CCUBGA, Division of Microbiology, ICAR-Indian Agricultural Research Institute, New Delhi. 110012	Making rice straw a useable feedstock for producing low cost sugar streams for obtaining value added biochemical products
9.8	Dr Vishal Gupta, Jr. Scientist (Plant Pathology)	SKUAST-J, Chatha, Jammu (J&K) - 180009	Development of Cost effective cultivation technology for paddy straw mushroom (volvariella volvacea) of commercial scale
9.9	Dr. D Raghupathi. Professor and Head Department of Agricultural Extension	College of Agriculture, VC Farm Mandya, Karnataka 571405	Documentation Of Climate Smart Practices Of Farmers Paddy Straw Management In Kaveri Command Area Karnataka

9.10	Dr Satish Kumar Sharma, Jr. Scientist, Incharge Seed production farm	Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu, Chatha, Jammu-180009	Technological interventions for management of Basmati Paddy straw grown in Jammu province of Himalayan regions
9.11	Dr Manpreet S. Mavi Scientist	Department of Soil Science, Punjab Agricultural University, Ludhiana	Utilization of biochar and energy produced from rice straw
9.12	Dr. Rajinder Kumar Diwan Additional Director	Directorate of Innovation & Technology Transfer (DITT), J 3 Block, 1st Floor, Room No. 112, Amity University U.P. Noida Sec – 125, 201303	Development of Fire Retardant Rice Straw Composite for Building and Construction Industry

Theme-10: Develop Machinery for Crop Production Under Extreme Weather Conditions

S.No.	Name of the PI	Institute	Title
10.1	Dr. H. P. Chaturvedi, Assistant Professor	Nagaland University, Lumami, Nagaland	Metabolite profiling of tomato landraces of North East India for water stress and fruit quality

Theme-11: Prediction of Post-Harvest Losses Under Extreme Weather Conditions and Changing Climate

S.No.	Name of the PI	Institute	Title
11.1	Dr Javid Ahmed Sofi, Associate Professor	Shere-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUASTK), Shalimar, Srinagar - 190025	Effect of different Thermal Regimes on Biochemical Attributes of Economically Important Temperate Fruits
11.2	Dr. Suresh D Ekabote, Professor and Head, Dept. of Horticulture Crop Protection	University of Agricultural and Horticultural Sciences, Shivamogga, Savalanga road, Navile, Shivamogga -577204	Changing climatic factors on diversity and distribution of fungal fruit spot/ rot on pomegranate in Karnataka
11.3	Dr. Arun Kumar Verma Scientist, Goat Prod. Tech. Lab., Animal Nutrition and Products Technology Division	ICAR-Central Institute for Research on Goats, Makhdoom Farah, Mathura 281122, U.P.	Assessment of post-harvest losses and their management in meat production system
11.4	Dr. Irshad Hassan, Associate Professor (Fruit Science) RCRQA	SKUAST-K,SHALIMAR, SRINAGAR, KASHMIR, JAMMU AND KASHMIR	Studies on Apricot quality under cold arid climate of Ladakh in Jammu and Kashmir

11.5	Dr. Akath Singh Principal Scientist (Hort. – Fruit Science)	ICAR-Central Arid Zone Research Institute (CAZRI), Near light Industrial Area Jodhpur-343003, Rajasthan	Decision support system for prediction of fruit cracking and sunscald in pomegranate due to variations in weather parameters
11.6	Dr. Suhrita Chakrabarty (Das) Professor, Department of Post Harvest Technology of Horticultural Crops, (Also Working at AICRP on Floriculture) Faculty of Horticulture, BCKV	Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Dist- Nadia, West Bengal, Pin-741252	Predicting the impact of climatic factors and extreme weather conditions on post-harvest losses of Tomato and Marigold
11.7	V. Geethalakshmi Principal Scientist	ICAR-Central Institute of Fisheries Technology, Matsyapuri, P. O., Cochin - 682029, Kerala, India	Prediction of post-harvest losses in Fisheries and Aquaculture with reference to extreme weather events and climate change
11.8	Dr. Sankalpa Ojha (Assistant Professor), Principal Investigator, Dept. of Agril. Statistics	UTTAR BANGA KRISHI VISWAVIDYALAYA(UBKV) P.O.- Pundibari, Dist.- Cooch Behar, West Bengal-736165	Estimation of post-harvest losses of major horticultural crops of north bengal under climatic variations and it's prediction”

Theme-12: Development of Machines And Gadgets for Salvaging, Recovery, Storage and Processing of Produce under Extreme Weather Conditions

S.No.	Name of the PI	Institute	Title
12.1	Dr Towseef Ahmad Wani, SMS PHT/ FST	Krishi Vigyan Kendra Leh, SKUAST Kashmir	Sanitization and shelf life extension of Fruits and Vegetables in cold arid region of Leh Ladakh
12.2	Dr. Nagappa Karabasanavar, Assistant Professor, Dept. of Veterinary Public Health & Epidemiology	Veterinary College, Karnataka Veterinary, Animal and Fisheries Sciences University (KVAFSU), Vinobanagar, Shivamogga- 577 204, Karnataka	Development of solar energy driven retail chicken processing model and its critical evaluation for microbial food safety compliance
12.3	Dr. Armaan U. Muzaddadi, Principal Scientist	ICAR-Central Institute Post- Harvest Engineering and Technology, P.O. PAU Ludhaina Pin 141004 Punjab	Design and development of feed broadcasting system for ease of broadcasting in extreme weather condition

12.4	Dr Suresh K.Devatkal Principal Scientist	ICAR-National Research Centre on Meat, Chengicherla, Boduppal (Post) Hyderabad-500 092, Telangana State	Design and Development of solar powered refrigerated cabinet for hygienic marketing of sheep and goat meat in local retail market/shops
12.5	Dr.Dronachari Manvi Assistant Professor	Department of Agricultural Engineering, College of Agriculture, University of Agricultural Sciences, GKVK, Bangalore-560 065	Design And Development of A continuous Microwave Pre-Treatment Device To Improve the Dehulling Efficiency of Kodo, Brown top and Barnyard Millets

List of projects received (No Theme is mentioned in the proposal)

S.No.	Name of the PI	Institute	Title
0.1	Dr. Shilpa Sood, Assistant professor, Division of Veterinary pathology; FVSC &AH;	Faculty of Veterinary Science and Animal Husbandry; Shere Kashmir University of Agriculture Sciences and Technology; Main Campus; Chatha, Jammu-180009, Jammu and Kashmir	Elucidation of mechanism of cold resistance and identification of cold resilient sheep population in North-Western Himalayan region
0.2	Dr G Govindaraj, Sr.Scientist	ICAR-National Institute of Veterinary Epidemiology and Disease Informatics	Assessment of livestock resource status, impact of animal diseases on livestock farmers and apaptation interventions in varying climate risk regions of karnataka
0.3	Dr Yuvraj Singh Pandha, Asst. Entomologist	Punjab Agricultural University, Ludhiana - 141004, Punjab	Population fluctuation and Eco-friendly management of cucurbitaceous vegetable fruit flies under changing scenario of climate change in Punjab
0.4	Dr. Vishal Gupta, Assistant Professor (Plant Pathology), Division of Plant Pathology, Faculty of Agriculture,	Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu	Development of Forewarning model for of yellow rust of wheat
0.5	Dr R K Kakani, Pr. Scientist	ICAR-Central Arid Zone Research Institute, Jodhpur 342 003	Phenotypic and molecular expression of heat tolerance genes in bio-fortified pearl millet parents and their hybrids
0.6	Dr. Nand Kishore Jat, Scientist (Agronomy)	ICAR-Central Arid Zone Research Institute, Jodhpur 342 003	Pearl millet seed pelleting with hydrogel and zinc to mitigate early drought and temperature stress for enhancing crop sustainability, yield and quality under arid rainfed system

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