

**Shortlisted Projects under NICRA Competitive Grants Component for Oral
Presentation at NASC, New Delhi**

S.No.	Title	Name of the PI and Address
<u>Theme-1: Effect of Elevated Temperatures due to Changing Climate on the Quality of Food, Fodder and Oilseed Crops</u>		
1	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	Dr. S. Sheraz Mahdi SKUAST-K, J&K
2	Effect of extreme heat stress on grain and fodder quality of heat stress resilient maize hybrids	Dr Prakash H. Kuchanur UAS, Raichur, Karnataka
3	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	Dr.M.A.Ananthakumar ZARS, UAS (B), VC Farm Mandya, Karnataka
<u>Theme-2: Carbon Footprinting of Agriculture in different Agro-Ecologies</u>		
4	Carbon foot printing based on life cycle assessment in apple crop production under mountain agroecological systems of Kashmir	Dr. Shabir Ahmed Bangroo SKUAST-K, J&K
5	Development of an interface for farm level carbon footprint estimation	Dr Arindam Datta TERI, New Delhi
6	Carbon and water foot printing of different cropping systems under variable climatic conditions in irrigated agro ecosystems of Punjab	Dr. Sudhir Kumar Mishra PAU, RRS, Faridkot
7	Conversion of sugarcane biomass into biochar and its significance in improving sugarcane productivity and soil health	Dr. P. Thimme Gowda ZARS, V. C. Farm, Mandya, Karnataka
8	Sustainable Intensification of Rice- Fallows in command area and their Carbon footprint estimation	Dr. B. K. Desai UAS, Raichur, Karnataka
9	Global Warming Potential (GWP) of mechanised fishing methods of India and mitigation strategies: Analysis using Life Cycle Assessment (LCA) - Data Envelopment Analysis (DEA) approach	Dr. Leela Edwin ICAR-CIFT, Matsyapuri, Cochin, Kerala
<u>Theme-3: Bioprospecting Cultivable Fish Genetic and Genomic Resources for Climate Resilient Agriculture</u>		
10	Understanding genomic mechanisms of thermal tolerance using golden mahseer, Tor putitora as model	Dr Vindhya Mohindra ICAR-NBFG, Lucknow
<u>Theme-5: Building Coral Reefs' Resilience for Adaptation to Climate Change</u>		
11	Impact of climate change on coral reef habitat in and around Gulf of Mannar Marine National Park, southeast coast of India	Dr. J. S. Yogesh Kumar MARC, ZSI, Digha, West Bengal

12	Assessment of the resilience potential of coral reefs in the Gulf of Mannar towards recurrent episodes of coral bleaching	Dr. K. Jayakumar MKU, Madurai
13	Investigation of aragonite saturation horizon in the Gulf of Mannar waters - a measure of coral reef health for climate change and ocean acidification	Dr. M. Anand MKU, Madurai
<u>Theme-7: Innovation in Protected Cultivation of High Value Crops to Reduce Damage Due to Frost and Hailstorms</u>		
14	Temperature Gradient Modeling in a Greenhouse equipped with Evaporative Cooling Pad System in a Semi-arid Region	Dr. R. Lalitha TNAU, Kumulur, Trichy
15	Design & development of protective structures for high value crops to reduce damage from hail and frost	Dr. R. K. Singh ICAR- CIPHET, Ludhiana
<u>Theme-8: Impact of Surface Ozone on Crop Production in Rural Areas</u>		
16	Impact of tropospheric ozone on crop production under jute-rice-mustard cropping system	Dr. A.K. Singh ICAR-CRIJAF, Barrackpore
17	Implication of surface ozone on crop yields over India: Integrating regional climate model with strategic field measurements	Sachin S Gunthe IIT- Chennai, Tamilnadu
<u>Theme-9: Development of Technologies for Effective Alternative use of Rice Straw</u>		
18	Rice straw based hydrochar composites to sequester C and enhance soil P fertility for sustainable rice production under changing climate	Dr S Karthikeyan TNAU, Coimbatore, Tamilnadu
<u>Theme-11: Prediction of Post-Harvest Losses under Extreme Weather Conditions and Changing Climate</u>		
19	Changing climatic factors on diversity and distribution of fungal fruit spot/ rot on pomegranate in Karnataka	Dr. Suresh D Ekabote, CPUAHS, Shivamogga, Karnataka
20	Prediction of post-harvest losses in Fisheries and Aquaculture with reference to extreme weather events and climate change	V. Geethalakshmi ICAR-CIFT, Matsyapuri, Cochin, Kerala
<u>Theme-12: Development of Machines and Gadgets for Salvaging, Recovery, Storage and Processing of Produce under Extreme Weather Conditions</u>		
21	Design and development of feed broadcasting system for ease of broadcasting in extreme weather condition	Dr. Armaan U. Muzaddadi ICAR-CIPHET, Ludhiana