







Inaugural Session 9.45AM-12.00 PM, 25-11-2023 Venue-TMPAI International Convention Centre, Mangalore

TIME PROGRAMME		
8.30-9.50 AM	Registration of the delegates	Organizers- ICDA-2023
9.50am-10.0am	Welcoming Dignitaries onto the Dais	Event Manager- ICDA-2023
9.50-10.00 AM	Lighting of the Lamp	All Guests
10.00-10.05AM	Welcome Address and about ICDA-2023	Mr. Sandeep Kondaji, Founder & CEO, KRISHITANTRA
10.05-10.10 AM	Chief Patron Address ONLINE(TBC)	Dr.Himanshu Pathak, Secretary, DARE & DG, ICAR, New Delhi
10.10 -10.15AM	Guest of Honor Address (TBC)	Dr. Ch. Srinivasa Rao-Director,ICAR-National Academy of Agricultural Research Management.
10.15-10.20 AM	Guest of Honor Address	Dr.Raman Meenakshi Sundaram, Director, ICAR- Indian Institute of Rice Research , Hyderabad
10.20-10.25 AM	Guest of Honor Address	C.M Patil- CEO & Founder, KrishiKalpa
10.25-10.40	Launch of KT CROP CARBO TRACKER	Mr. Sandeep Kondaji, Founder & CEO, KRISHITANTRA & Mr. Santosh Srikantaiah, Head of Innovation, NTTDATA, India
10.40-11.00 AM	Release of Publications	All guests including lead authors
10.45-11.30 AM	ICDA-2023 awards distribution	All guests
11.30-11.50 AM	Inaugural Address by Chief Guest	Chairman, NABARD
11.50-11.55 AM	Vote of Thanks	
11.55-12.00 PM	Group photo & light refreshments	
	Anchoring and stage host-Event Manager	

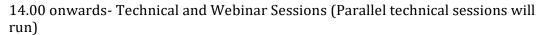
12.00 -13.00Hrs

Keynote Address follows KT -CROP CARBO TRACKER Mr. Sandeep Kondaji, Founder & CEO, KRISHITANTRA









#### TECHNICAL SESSION /PANEL DISCUSSIONS 1, 2 PM TO 4.30PM, Dated: 25-11-2023 VENUE -MAIN HALL, TMPAI

Climate Change Impacts, Mitigation And Adaptation Strategies- Global warming is one of the most pressing issues today and emissions are contributing to climate change, which is a real and present threat to planet Earth. With longer summers, extreme winters, wildfires, rising sea levels, heat waves and other calamitous events, the impact of climate change is evident. In 2015, in Paris, the nations of the world committed themselves to trying their best to prevent planet warming by more than 1.5°C from its pre-industrial state.

The focus of this session will be on the recent advances made and tools and techniques available to address comprehensively climate change and its impacts, based on the most up-to-date scientific research

up-to-uate	up-to-date scientific research		
Opening Remarks-Chairperson		Dr S Sridhara Professor Agronomy and Coordinator Center for Climate Resilient Agriculture at University of Agricultural and Horticultural Sciences, Shimoga, India	
	Moderator	Vimal Panjwani, CEO, AgriVijay	
	Co-Chairperson	Hoang Thi, Chairperson, Vietnam Pepper & Spice Association	
	Rapporteur	TBC	
Keynote speaker	Vimal Panjwani, CEO, AgriVijay	Solar Revolution in Agriculture	
Keynote speaker	M.H. Kalubarme ISRO	Soil And Weather Based Sugarcane Suitability Related to Climate Change Using Geo-Informatics Technology.	
Keynote speaker	Dr S Sridhara	Climate Resilient Agro-Techniques For Agriculture And Horticulture Crops	
Keynote speaker	Dr. Francesco Carnevale Zampaolo	SRI- for Climate-Smart Livelihood and Nutritional security	
Keynote speaker	Dr.K.C.Siva balan, Chairman, CREA Trichy, Tamil Nadu	Farmers organization and Climate Smart Agriculture (CSA): Case study from Tamil Nadu, India	
Keynote speaker	Dr.Siddhartha Kumar Singh , ICAR-IIVR. Varanasi	Developing a low carbon foot printing for Vegetable based cropping systems	
Keynote speaker	Satyendra BAU, Sabour	Green Super Rice (GSR) For Climate Resilience And Sustainability	
Keynote speaker	Akhtar Rasool	Detecting Toxic Chemicals In Water Bodies Using Plant Algae Biosensors	
Felicitations			







## TECHNICAL SESSION /PANEL DISCUSSIONS 2 4.30 PM TO 7.00PM, Dated: 25-11-2023

VENUE -MAIN HALL, TMA Pai International Convention Centre, Mangalore, Karnataka

Measuring baseline emissions- Despite low per-capita emissions (1.8 tons CO2), India is the third-largest emitter globally, emitting a net 2.9 gigatons of carbon-dioxide equivalent (GtCO2) every year as of 2019. The Sixth Assessment Report (AR6) of the Intergovernmental Panel on Climate Change (IPCC) tells us that global emissions need to be reduced by 43% within this decade for us to have a fighting chance of limiting global temperature rises to within 1.5° C. How, then can India realize the promise of its green transformation? The focus of this session will be on the recent advances made and tools and techniques available to address Determining emissions reductions, Verification, and validation in all aspects of Agronomy, Horticulture, Agroforestry, Irrigation, Fertilizer application, Farm mechanization Food, Nutrition both traditional and modern, Documenting indigenous practices, changes in farming practices, Ocean Uptake, Geological Sequestration

Opening Remarks-Chairperson		Mallesh T M, CEO & Founder, Cultyvate
	Moderator	Dr. R M Mahendra Kumar, Head, Crop Production, ICAR-IIRR, Hyderabad
	Co Chairman	Dr. Francesco Carnevale Zampaolo -Programme Director, SRI-2030
	Rapporteur	TBC
Keynote speaker	Mallesh T M, CEO & Founder,Cultyvate	Measuring baseline emissions, Determining emissions reductions and Verification-A cultivate experience
Keynote speaker	Dr. R M Mahendra Kumar, Head, Crop Production, ICAR-IIRR, Hyderabad	Baseline Gaseous Measurements In Rice Based Cropping Systems
Keynote speaker	Dr. MBB Prasad Babu, Head, Soil Science, ICAR- IIRR, Hyderabad	Mitigating methane emissions from rice fields-validation of a decade-long field studies
Keynote speaker	Dr. Amanullah The University of Agriculture Peshawar, Pakistan	Decarbonizing Agriculture: A Path to Sustainability - Implications for Pakistan, India, and the World
Keynote speaker	Dr Micheal Crawford,CEO, SOIL CRC	Soil improvements, carbon sequestration-Towards reducing carbon foot printing
Keynote speaker	Dr. S.K. Sinha SRI, PUSA	Effect of combination of press mud and bio-fertilizer on soil fertility and productivity of sugarcane in calcareous soils of Bihar
Keynote speaker	Dr. Mangal Deep Tuti Sr. Scientist, ICAR-IIRR	Carbon footprint of rice-based cropping system
Keynote speaker	Dr. Sunita Kumari Meena SRI, PUSA	Assessment of Carbon Emissions and Associated Environmental Implications of Sugarcane Cultivation in Calcareous Terrains
	Felicitations	









#### TECHNICAL SESSION /PANEL DISCUSSIONS 3 9 AM TO 11.30PM, Dated: 26-11-2023

VENUE -MAIN HALL, TMA Pai International Convention Centre, Mangalore, Karnataka

Use of precision agriculture platforms- Currently, India has an energy savings-based market mechanism, and the new scheme will enhance the energy transition efforts with an increased scope that will cover the potential energy sectors.

The focus of this session will be on the recent advances made and tools and techniques available to address - Decarbonizing agriculture will require a combination of policy interventions, technological innovations, and changes in farming practices. Overall, decarbonizing is a complex process, requires a collaborative effort between governments, businesses, and individuals.

Opening Remarks-Chairperson		M.H. Kalubarme Retired Scientist SG, SPACE Applications Centre, ISRO, Ahmedabad
	Moderator	Dr. Dharmesh Verma, Consultant, Krishitantra
	Co Chairman	Dr. Dharavath Ramesh Associate Professor, Department of Computer Science & Engineering, Indian Institute of Technology (Indian School of Mines) Dhanbad
	Rapporteur	TBC
Keynote speaker	Dr. Dharavath Ramesh IIT, Dhanbad	Precision Agriculture: An Amalgamation of Technology Advancements
Keynote speaker	Dr G.S. JASUDASU Scientist, ICAR -IIRR, Hyderabad	Use of Nano particles in plant disease management
Keynote speaker	Dr Sat Kumar Tomer, CEO & Founder, Satyukt	Understanding Satellite imageries processing in Agriculture
Keynote speaker	Dr. Dharmesh Verma Consultant, Krishitantra	'Rice Mapping Using Sentinel 1 SAR and Sentinel-2 Time Series images'
Keynote speaker	Dr K Basavaraj Scientist, ICAR -IIRR, Hyderabad	Bio Sensors: As a tool for detection of Plant Diseases
Keynote speaker	Dr. Brajendra PS, ICAR-IIRR, Hyderabad	Carbon Rice Tracker- A Meta Version
Lead speaker	Er.Satish Kumar BAU, Sabour	Nano Technological Foot Printing For Food Processing And Preservation
Lead Speaker	Er. Ashok Kumar BAU, Sabour	3d Printing Low Carbon Footprint Technique For Food Customization And Elaboration
	Felicitations	









## TECHNICAL SESSION /PANEL DISCUSSIONS 4 11.30 AM TO 1.00PM, Dated: 26-11-2023

VENUE -MAIN HALL, TMA Pai International Convention Centre, Mangalore, Karnataka

Decarbonizing Agriculture - Decarbonizing refers to the process of reducing carbon emissions and transitioning to a low-carbon economy. Agriculture is a significant contributor to global greenhouse gas emissions, accounting for approximately 25% of total emissions. B

The focus of this session will be on the recent advances made and tools and techniques available for Charting a Pathway for Sustainable Growth- Green synthesis of fertilizers, nano fertilizers, Natural Farming, Biodynamic farming, Advances in cultural practices, Crop-Livestock Integration, organic farming, Eco-agriculture& perm cultur, Using renewable energy, Adopting agroforestry practices Innovative methods of Pest and disease management, PM KUSUM Scheme, R strategy, Zeba technologies, Changing growing environments such as SRI, DSR,AWD SCI etc.

Opening Remarks-Chairperson		C.M Patil, CEO & Founder, KrishiKalpa
	Moderator	Dr. Gabrijel Ondrasek University Of Zagreb, Faculty Of Agriculture, Croatia
	Co Chairman	Dr. Htet Ne Oo University Of Technology (Yatanarpon Cyber City), Myanmar
	Rapporteur	TBC
Keynote speaker	Dr. Gabrijel Ondrasek	Salt Stress in Plants and Mitigation Approaches
Keynote speaker	C.M Patil CEO & Founder, KrishiKalpa	Increasing farmers income, building ecosystem partners for farmers
Keynote speaker	Srivatsa Sreenivasa Rao CEO & Founder, TraceX	Achieving positive carbon foot printing in block chain, traceability
Keynote speaker	Rahul Prakash CEO & Founder, Amal Farm	Achieving positive carbon foot printing in GI tagged products ecommerce
Keynote speaker	Shashank CEO & Founder, Dehaat	Achieving positive carbon foot printing in Organic fertilizer manufacturing
Keynote speaker	Dr Mahender Kondapalkala CEO & Founder, Greenbliss Agro	Achieving positive carbon foot printing in Organic fertilizer manufacturing
Keynote speaker	Rajesh Ranjan, CEO NabVentures	Agri startups working in sustainability and achieving net zero emissions goals
Keynote speaker	Jinesh Shah, Partner,Omnivore	Agri startups working in sustainability and achieving net zero emissions goals
	Felicitations	









# TECHNICAL SESSION /PANEL DISCUSSIONS 5 2.00 PM TO 4.00 PM, Dated: 26-11-2023

VENUE -MAIN HALL, TMA Pai International Convention Centre, Mangalore, Karnataka

The focus of this session will be on the recent advances made and tools and techniques available for Phenomics and Genomics approach of decarbonizing develop disruptive technologies to meet goal of decarbonisation, Plant Photosynthesis.-

	technologies to meet goal of decar	rbonisation, Plant Photosynthesis
Opening Remarks-Chairperson		Dr. Satendra K Mangrauthia
		Senior Scientist and Genomics Expert, ICAR-IIRR, Hyderabac
	Moderator	
	Co Chairman	Dr. Upendra Kumar, Senior Scientist, ICAR-NRRI,
		Cuttack
	Rapporteur	TBC
Keynote speaker	Dr B. Sailaja, University of Georgia, USA	Genomic and Genome Editing for sustainable agriculture
Keynote speaker	Dr Akshaya Biswal (CIMMYT, Mexico)	Genomic and Genome Editing for sustainable agriculture
Keynote speaker	Dr Manish Solanki (IIRR)	Genomic and Genome Editing for sustainable agriculture
Keynote speaker	Dr. Upendra Kumar, Senior Scientist, ICAR-NRRI, Cuttack	Short-circuit pathways in the nitrogen cycle: Opportunities and Challenges
Keynote speaker	Dr. Hemant Purohit, VP- HiMedia Microbiome Research Center,	Strategizing for developing low carbon footprint at Microbiome Research Center
Keynote speaker	Dr. Narsi Reddy Co-Founder and MD, URBAN KISSAN, Hyderabad	Microbiomes For Decarbonizing
Keynote speaker	Dr. C Girish Senior Scientist, ICAR-IIRR, Hyderabad	Genomic assisted breeding for direct Seeded rice traits improvement
Keynote speaker	Dr. Anantha Senior Scientist, ICAR-IIRR, Hyderabad	Developing nutrient /stress-tolerant varieties using molecular approaches
	Felicitations	









## TECHNICAL SESSION /PANEL DISCUSSIONS 6 2.00 PM TO 4.30 PM, Dated: 26-11-2023

VENUE -MAIN HALL, TMA Pai International Convention Centre, Mangalore, Karnataka

Carbon sequestration happens through various natural processes, including plant photosynthesis, soil organic matter formation, ocean uptake, and geological sequestration. By understanding these processes, we can develop strategies to enhance carbon sequestration and mitigate the impacts of climate change.

The focus of this session will be on the recent advances made and tools and techniques available for approach of decarbonizing develop disruptive technologies to meet goal of decarbonisation,

approacn	approach of decarbonizing develop disruptive technologies to meet goal of decarbonisation,			
Opening Remarks-Chairperson		Dr. Ranjan Bhattacharyya, ITPS, UNFAO, Rome, Italy		
	Moderator	Dr. Pramod Jha, PS, ICA-IISS, Bhopal		
	Co Chairman	Ms Daria Bunu, Associate R&D Specialist, NTTDATA, Japan		
	Rapporteur	TBC		
Keynote speaker	Dr. Amanullah The University of Agriculture Peshawar, Pakistan	Carbon Sequestration - A Vital Component of Decarbonization		
Keynote speaker	Dr. Ranjan Bhattacharyya PSM NRL, Building, ICAR-IARI, New Delhi	Agricultural best management practices for Soil carbon sequestration in the northern India		
Keynote speaker	Dr. Pramod Jha, PS, ICAR-IISS, Bhopal	Carbon sequestration in agricultural soils: Issues and strategies		
Keynote speaker	P. H.Vaidya Professor, Vasantrao Naik Marathwada Krishi Vidyapeeth Parbhani	Pond silt characterization for possible carbon sequestration		
Keynote speaker	Dr. Brajendra PS, ICAR-IIRR, Hyderabad	Carbon dynamics in agroforestry systems		
Keynote speaker	Hemendra Mathur Co-Founder, ThinkAg	Policy Interventions in carbon trading		
Keynote speaker	Dr. Ajeet kumar, SRI, PUSA	Strategies To Enhance Carbon Sequestration Through Sugarcane Cultivation and Mitigate The Impacts Of Climate Change		
Keynote speaker	Manoj Kumar R , CEO & Founder, Capsber Agriscience	Achieving positive carbon foot printing in Organic fertilizer manufacturing		
Keynote speaker	Dr. K Surekha PrinciPAL Scientist, ICAR-IIRR, Hyderabad	4r stewardship-based phosphorus fertilization -A review		
Lead Speaker	Kalikant Choudhary Deputy Project Director, Atma ,Siwan	Strategizing an innovative Integrated wetland development scheme in Bihar		









## TECHNICAL SESSION / PANEL DISCUSSIONS 7 4.30 PM TO 7.00 PM, Dated: 26-11-2023

VENUE -MAIN HALL, TMA Pai International Convention Centre, Mangalore, Karnataka

Developing carbon credit trading platform Soil carbon modeling, Carbon accounting, Carbon sequestration, Soil carbon fractionation, soil organic carbon (SOC) stock-increasing SOC levels is an important strategy for decarbonizing agriculture and mitigating the impacts of climate change. By implementing practices that promote SOC, farmers can help to build more sustainable and resilient agricultural systems that benefit both people and the planet.

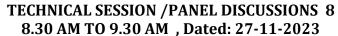
The focus of this session will be on the recent advances made and tools and techniques available for approach of decarbonizing develop disruptive technologies to meet goal of decarbonization,

of decarbonization,		
Opening Remarks-Chairperson		Santosh Srikantaiah, Head of Innovation, NTTDATA, India
	Moderator	Dr. Ritesh Sharma PS, BEDF, Meerut
	Co Chairman	Dr. Sairam Reddy, Founder and CEO Urban Kisaan
	Rapporteur	TBC
Keynote speaker	Dr. Sairam Reddy, Founder and CEO Urban Kisaan	Vertical farming for low carbon footprint
Keynote speaker	Dr. Bishnu Deo Singh KVK, Munger	Millets for nutritional and low carbon footprint
Keynote speaker	Santosh Srikantaiah, Head of Innovation, NTTDATA, India	Developing carbon crediting platform using AI
Keynote speaker	Ms Daria Bunu, Associate R&D Specialist, NTTDATA, Japan	USING AI IN CARBON TRADING
Keynote speaker	Dr. Ritesh Sharma PS, BEDF, Meerut	Organic Farming in basmati rices
Keynote speaker	Dr. A K Vishwakarma PC, ICAR(Niger and Sesame)	Low-input sustainable agriculture
Keynote speaker	Dr. Varsha BAU, Ranchi	Foods for fossil fuel decarbonising
	Felicitations	









VENUE -MAIN HALL, TMA Pai International Convention Centre, Mangalore, Karnataka

Creating knowledge base and awareness About carbon emissions data, accounting rules, technologies for carbon capture, storage and utilization, quantifying carbon emissions, targets, actions, schemes, policies for emissions reduction in agriculture, and setting emissions reduction targets *The focus of this session will be on the recent advances made and tools and techniques available for* approach of decarbonizing develop disruptive technologies to meet goal of decarbonisation,

Opening Remarks-Chairperson		Professor Bhanooduth Lalljee University of Mauritius.
	Moderator	Dr. P Muthuraman, Head, TTT, ICAR-IIRR, Hyderabad
	Co Chairman	Dr. A Amarender Reddy,
		Joint Director, School of Crop Health Policy Support
		Research, ICAR-NIBSM, Raipur
	Rapporteur	TBC
Keynote	Dr. A Amarender Reddy,	Agricultural policy scenario in India@75
speaker		
Keynote speaker	Dr. P Jeykumar ICAR-IIRR, Hyderabad	Biocontrol agents in disease and pest management
Keynote speaker	Dr. P Muthuraman, Head, TTT, ICAR-IIRR, Hyderabad	Readying small-scale farmers for carbon trading
Keynote speaker	Dr. Amtul Waris ICAR-IIRR, Hyderabad	Climate smart villages
Keynote speaker	Dr. B Nirmala, Senior Scientist, ICAR-IIRR, Hyderabad	Agroecosystem approaches for climate resilience
Keynote speaker	Dr. Ritesh Sharma PS, BEDF, APEDA	Opportunities and Challenges of Meeting Carbon Adjustment Mechanisms in Agricultural Export
	Felicitations	









VENUE -MAIN HALL, TMA Pai International Convention Centre, Mangalore, Karnataka

Carbon footprint analysis Per capita carbon emissions, carbon accounting system and assessment processes and methodologies in agriculture, carbon capture storage and sequestration strategies in agriculture. Developing a carbon trading mechanism, certifying emissions reductions *The focus of this session will be on the recent advances made and tools and techniques available for* approach of decarbonizing develop disruptive technologies to meet goal of decarbonisation,

Opening Remarks-Chairperson		Dr. Mohammad Jawaid UNIVERSITI TEKNOLOGI MALAYSIA (UTM)
	Moderator	Dr. Gobinath Scientist, ICAR-IIRR, Hyderabad
	Co Chairman	Siddhartha Kumar Singh, Principal Scientist, Agronomy, ICAR-Indian Institute of Vegetable Research, Varanasi
	Rapporteur	TBC
Keynote speaker	Siddhartha Kumar Singh , Principal Scientist, Agronomy, ICAR-Indian Institute of Vegetable Research,Varanasi	Organic farming for sustainable vegetable production and livelihood enhancement
Keynote speaker	Dr. M Azam PS, ICAR-IIRR, Hyderabad	Nano Silica products for achieving storage efficiencies
Keynote speaker	Dr. Gobinath Scientist, ICAR-IIRR, Hyderabad	Nano fertilizers for achieving low carbon footprinting
Keynote speaker	Dr. Kemparaju Scientist, ICAR-IIRR, Hyderabad	Biodiversity, ecosystem, and genetic resources
Keynote speaker	Mr. Pankaj Kumar KVK, Katihar	Millets for nutritional and food security for small and marginal farmers
Keynote speaker	Dr. Humera Quadriya Krshitantra, Consultant	Microbes for decarbonizing
Felicitations		