



3rd International Web-Conference of ANRCM
on
**Natural Resource Management for Global Food
Security and Sustainable Development Goals
(3ICANRCM)**



December 02-03, 2022

Organized by: ACADEMY OF NATURAL RESOURCE CONSERVATION AND MANAGEMENT (ANRCM), Lucknow,
India & KSN University of Agricultural and Horticultural Sciences, Shivamogga, India

Corporate sponsorer: BioAtlantis India Pvt. Ltd.

Programme Schedule

Virtual (Online mode)

Zoom Meeting

<https://us05web.zoom.us/j/81490506690?pwd=MjdVSjVnTnF6cGpRjNSTWZ2UEQrZz09>

(Meeting ID: 814 9050 6690, Passcode: 582470)

2nd December, 2022

INAUGURAL SESSION

10:00-10:05	Welcome Address by Dr. Atul Kumar Singh , President ANRCM, Lucknow, India
10:05-10:10	About the ANRCM and 3 rd International Web-Conference by Dr. Sanjay Arora Secretary, ANRCM, Lucknow, India
10:10-10:20	Address by Guest of Honor- Dr. Jorge Batlle-Sales , Chair of the FAO International Network of Salt Affected Soils (INSAS) & President of Commission on Salt-Affected Soils, International Union of Soil Sciences (IUSS), University of Valencia, Spain
10:20-10:25	Release of Abstract e-book of the Conference
10:25-10:45	Inaugural Address by Chief Guest- Dr. R.C. Jagadeesha , Vice-Chancellor, KSNUAHS, Shivamogga, India
10:45-10:50	Vote of Thanks by Dr. M.S. Nagaraja , Professor, KSNUAHS, Shivamogga, India

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Zoom Meeting

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Keynote Presentations

(Moderator: Dr. A.K. Bhardwaj, Principal Scientist, ICAR-Central Soil Salinity Research Institute [CSSRI], Karnal, Haryana, India)

11:00-11:40	Keynote presentation 1: Dr. Jorge Batlle-Sales , Chair of the FAO International Network of Salt Affected Soils (INSAS) & President of Commission on Salt-Affected Soils, IUSS; University of Valencia, Spain	Sustainable Land Management: The evolution of environmental indicators
11:40-12:20	Keynote presentation 2: Prof. M. Sheshshayee , Professor and Head, University of Agricultural Sciences, Bangaluru, India	The connect between crop production and human health in a changing climate



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Day 1: 2nd December 2022 (Friday)

Technical Session – I
Soil Resource Conservation and Management

Zoom Meeting

<https://us05web.zoom.us/j/81490506690?pwd=MjdVSUVBbnFnF6cGpiRjNSTWZ2UEQrZz09>

(Meeting ID: 814 9050 6690, Passcode: 582470)

Chairperson: Prof. Ildefonso Pla Sentis, Emeritus Professor, Universitat de Lleida, Spain, Founder and Past-President of ISCO, Founder and Life Honorary Member of WASWAC, Member of the Executive Committee of ESSC

Co-Chairperson: Dr. M.S. Hadda, Professor, PAU, Ludhiana, India

Convener: Dr. Anshuman Kohli, Associate Professor, BAU, Sabour, India

Dr. S. Shobha, KSNUAHS, Shivamogga, India

12:30-12:55	Lead Speaker 1: Dr. M. Madhu , Director, IISWC, Dehradun	Land degradation and climate change challenges for land degradation neutrality and SDGs
12:55-13:20	Lead Speaker 2: Prof. Rachid Mrabet , Directeur de Recherche/Senior Scientist, Institut National de la Recherche Agronomique (INRA), Avenue de la Victoire, Morocco	Conservation agriculture as climate and drought proof approach
13:20-14:20	Oral Presentations (Parallel Session -1)	
1	I. Rashmi	Effect of soil management strategies on soil erosion and crop productivity in degraded ecosystem of Chambal tablelands
2	Ann Maria Joseph	Long-term adoption of bed planted conservation agriculture enhances soil organic carbon stabilization within aggregates in the Indo-Gangetic Plains
3	Reshma K	Effect of biochar on nitrogen retention in soils
4	K. Coumaravel	Production and characterization of biochar from different sources of biomass
5	Prashanth D V	Correlation studies among various growth and



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		yield parameters influenced by microbial enriched Areca husk compost in Maize under Maize-Green gram cropping sequence in Typic Rhodustalf
6	Anand S	Development of Micro-Level Land and Water Action Plan – A Case Study in a Watershed in Lower Tungbhadra Catchment of Karnataka
7	Pratik Ramteke	Long-term nutrient management effects on soil aggregation and C stabilization in Vertisols of Central India
8	Vignesh	Influence of Liming Material and Bio-inoculants on the Yield and Nutrient Uptake of Frenchbean under Hilly Zone of Karnataka.
9	K. Vilakar	Study of Potassium release pattern in Red sandy, Medium black and Deep black soils of Northern Telangana Zone: A Laboratory Incubation Stud
10	Anshuman Bordoloi	Delineation of spectrophotometrically analysed secondary and micronutrient status of soils of Biswanath District of Assam
11	R. Rajakumar	Effect of biochar application on the yield and quality of Chinese potato in highly weathered Tropical soils of Kerala
12	Vinod Kumar	Effects of paper mill sludge amendment on soil characteristics and agronomical performance of Fenugreek plants
13	Prabhavathi N	Effect of varied levels of sugarcane pressmud and bio compost on soil microbial population and enzymes activities in finger millet
14:00-16:00	Poster Presentations (Parallel Session -1) Zoom Meeting https://us02web.zoom.us/j/89174298557?pwd=NkFZMWpDdjJzazFaTFduazZTZUxZDZz09 (Meeting ID: 891 7429 8557, Passcode: 3ICANRCM)	
	Chairman: Dr. G.N. Thippeshappa , Professor & Head, Dept. of SS&AC, KSN University of Agricultural and Horticultural Sciences, Shivamogga, India Co-Chairman: Dr. K. Rajan , IISWC-Dehradun, Regional Center, Datia Convener: Dr. Y. Shilpashree , KSN University of Agricultural and Horticultural Sciences, Shivamogga, India	
1	Suhani	Influence of fish bone meal on yield attributing characters and yield of tomato
2	Akshay Kumar Kurdekar	Agronomic Techniques for Soil Fertility Management



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3	Seema Anantaraj Jujin	Fertility assessment of soils of Duglapura-1 micro watershed under Chikkamagaluru district, Karnataka
4	Manu Rani	Nitrogen management options with nano-urea and their growth and yield responses in rice-wheat cropping
5	Vinay Kumar M	Sub-surface soil compaction-causes and remedy in Agriculture
6	Firdosh Fathima	Effect of biostimulants and micronutrients on alleviating salt stress in rice grown under sodic soil condition
7	Sudarshan Varma	Soil carbon saturation: Concept, implication and global evidences
8	Teena Rayar	Soil fertility mapping of arecanut growing areas in Sirsi Hobli of Uttara Kannada
9	Sandeep S N	Future of India's small and marginal farmers lies in integrated farming system
10	Shiyal Vikrambhai Naranbhai	Biochar: A potential soil health enhancer to agriculture and climate mitigation
11	Mahala Vrushali Raghunath	Vermicompost influencing the agricultural yield & quality
12	S. Vanitha	Soil conservation and management-An Overview
13	Sushma, N	Characterization of lowland acid soils for secondary nutrients in hilly zone of Karnataka
14	Hosseini Beyrami	Soil degradation risk of Salicornia farms irrigated with sea water in coastal environments (case study: southern coastal strip of Iran)
15	Amar Singh Gaur	Soil health prospective, their management
16	Shivakumar K.M	Impact of different land use systems on soil fertility status in Westernghat-Chikamagalur, Karnataka
17	Suman Kashyap	Influence of nitrogen levels on herbage yield and economy of promising entries of oat (<i>Avena sativa</i> L.) under Chhattisgarh plains.
18	Karuna Nidhan Singh	Strategy of natural resource conservation and management for sustainable food supply and livelihood security- a case study in semi arid tropics, Bundelkhand Region, Central India
19	Ragini S Patil	Vertical distribution of available and total micronutrients and their relationship with soil properties in different land management units of Kanginhal sub-watershed in Northern dry zone



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		of Karnataka
20	Anantakumar Patil	Inventory of land resources of a micro watershed in upper Tungabhadra catchment area in Karnataka
21	Amin Anagholi	Identification of yield-reducing factors using comparative performance analysis method in wheat fields of Abarkoh
22	Tanmaya Kumar Bhoi	Soil arthropods potential nutrient recycler in soil in desert area
23	Shalini	Effect of enriched lake biomass compost on growth and yield of French bean (<i>Phaseolus vulgaris</i>)
24	Ayisha Naziba T	Biochar for bioremediation
25	Vimalashree H	Effect of potassium humate and bio-inoculants on soil fertility, enzymatic activity and microbial population under French bean (<i>Phaseolus vulgaris</i> L.) in Alfisols
26	Praveen Kumar. D	Biochar for bioremediation
27	Sumana Balo	Upliftment in farm revenue through the improved cultivation practices in rice (Pratiksha Variety) under medium land condition at Chopra block of Uttar Dinajpur district in West Bengal : A Case study
28	Shradha	Sustainable soil conservation and management to achieve Sustainable Development Goals (SDGs)
29	Manish Yadav	Effect of INM on summer pearl millet (<i>Pennisetum glaucum</i> L.) and its residual effect on succeeding kharif green gram (<i>Vigna radiata</i> L.) under Typic Ustochrepts
30	Raji J Mohan	Sustainable soil management and food security
31	Dharam Pal	A balanced approach for nitrogen management in rice-wheat cropping system: Precision Nutrient Management
32	Mukesh Kumar	Effect of integrated nutrient management on fertility status of soil under papaya (<i>Carica papaya</i> L.) cultivation
33	Pagala Sai Krishna Reddy	Effect of conservation agriculture in finger millet + pigeon pea intercropping system on carbon dynamics and its influence on soil properties under dry land condition



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Day 1: 2nd December, 2022 (Friday)

Technical Session – II
Sustaining Water Use and Quality

Zoom Meeting

<https://us05web.zoom.us/j/81490506690?pwd=MjdVSVBnTnF6cGpRjNlSTWZ2UEQrZz09>

(Meeting ID: 814 9050 6690, Passcode: 582470)

Chairman: Dr. Bharat Sharma, Scientist Emeritus (Water Resources), International Water Management Institute (IWMI), New Delhi, India

Co-Chairman: Dr. Pradip Dey, Principal Scientist and Project Coordinator (STCR), Indian Institute of Soil Science, Bhopal, India

Convener: Dr. Ranu Sethi, Principal Scientist, ICAR-IIWM, Bhubaneswar, Odisha, India
Navneet Sharma, Soil & Water Engineering, PAU Ludhiana, Punjab, India

14:30-14:55	Lead Speaker 1: Dr. Surinder Singh Kukal , Former Dean & GS Khush Distinguished Professor Punjab Agricultural University, Ludhiana & MEMBER, Punjab Water Regulatory & Development Authority, Punjab	Sustaining Water Use - Challenges and Management
14:55-15:20	Lead Speaker 2 – Prof. Ildefonso Pla Sentis Emeritus Professor, Universitat de Lleida, Spain, Founder and Past-President of ISCO (International Soil Conservation Organization) & Founder and Life Honorary Member of WASWAC	Sustainable Water Use and Management under Global Change
15:20-16:20	Oral Presentations (Parallel Session-2)	
1	Bhavya M	Effect of imposition of water stress at different growth stages on root attributes and their impact



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		on yield of finger millet genotypes
2	Aravind P	Estimation of soil moisture index for the Valanchery micro-watershed using Landsat imagery
3	Sadashiv Nadukeri	Influence of hydrogel on physiology, yield and soil attributes of ginger (<i>Zingiber officinale</i> Rosc.) under different irrigation intervals
4	Divya D.	Growth and yield of lettuce as influenced by salinity levels and rooting substrates under hydroponic system of cultivation
5	Tejashvini A	Assessment of urbanization impact on ground and surface water quality using water quality index; Bangalore
6	Gagan B Shetty	Influence of levels of water-soluble fertilizers on yield, quality and economics of sugarcane through fertigation
7	Tarun Adak	Innovative approach for enhancing water productivity in Mango cv Amrapali
8	Dilip Yewalekar	Exploit TWW (Treated Wastewater) for Agriculture
9	Sreshma CK	Impact of greywater irrigation on soil physico-chemical properties, nutrients status and enzymes activity under Okra crop (<i>Abelmoschus esculentus</i>)
10	Vasuki Annadurai	Impact of irrigation regimes and nutrient levels on yield, total water consumption and water saving percentage of transplanted rice (<i>Oryza sativa</i> L.)
11	Navneet Sharma	SWAT model application for simulating water balance and water yield in the lower Sutlej sub-basin of Indian Punjab
12	Shekhar Singh	Spatial and temporal variation of rainfall using a multi-scale entropy approach in the western part of Rajasthan, India
13	Rajesh G M	Spatio-temporal variation of surface water resource over Samastipur district of Bihar using RS and GIS approach
14	Indu Chopra	Non-linear regression analysis for Reactive blue-19 dye adsorption on maize cob
16:00-18:00	Poster Presentations (Parallel Session-2) Zoom Meeting https://us02web.zoom.us/j/89174298557?pwd=NkFZMWpDdjlzazFaTFduazZTZU	



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	<u>xDZz09</u> (Meeting ID: 891 7429 8557, Passcode: 3ICANRCM)	
	Chairman: Dr. K.T. Gurumurthy , Professor, Dept. of SS&AC, KSN University of Agricultural and Horticultural Sciences, Shivamogga, India Co-Chairman: Dr. Rajkumar , Senior Scientist, CSSRI, Karnal, India Convener: Dr. Vasundhara R , NBSS&LUP, Bangaluru, India	
1	Amir Parnian	Evaluating the effectiveness of modern irrigation systems in Yazd province, Iran (Point of view of users, who struggling with water shortage, salinity, and arid environment)
2	Ali Momenpour	Evaluation of salinity tolerance threshold in 12 selected pomegranate (<i>Punica Granatum</i>) genotypes
3	Alok Singh Jayara	Need and scope of nanofertilizers in wheat
4	Hosseinpaviz	Evaluation of growth traits in some of pomegranate genotypes under salinity stress
5	Jikky Jayakumar	Extraction studies of bixin - a natural colorant from Annatto (<i>Bixa orellana</i> L.) using organic solvents
6	Bidisha Mondal	Characterization of diverse chemotypes of betel leaf (<i>Piper betle</i> L) and assessment of the essential oil produced by the creeper for rural entrepreneurship generation and environmental sustainability
7	Sukanya Pachani	Synthesis, characterization and release of nano-enabled phosphorus fertilizer in acid soils of Assam
8	Aekesh Kumar	Meteorological drought assessment using standardized precipitation index in Meerut division, Uttar Pradesh India
9	Abhiram G J	Mulching and its alternative sources
10	Claudia K L	Effect of process parameters on quality characteristics of microwave steam distilled lemongrass essential oil
11	Adwait Prakash Bowlekar	Temporal variability of soil moisture movement in Valanchery watershed from the mid-lands of Kerala
12	Kavitha P Jadhav	Impact of calcium nitrate foliar feeding on growth quality and yield parameters of Byadgi Chilli (<i>Capsicum annuum</i> L)
13	Arun C Kanagalabavi	Effect of irrigation levels and hydrogel on growth and yield of summer groundnut (<i>Arachis</i>



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		<i>hypogaea</i> L.) in Inceptisols of Gujarat
14	Dodlolla Rajani	Impact of foliar application of nano Ca on qualitative parameters of tomato (<i>Solanum lycopersicum</i> L.)
15	Ch. Shanmukhi	Hydponics in modern era
16	Hossein Beyrami	Effect of moisture stress on quinoa yield in lysimetric conditions
17	Patel Drashtiben Kantilal	Foliar application of urea and micronutrients on growth, yield and soil chemical properties after harvest of groundnut in loamy sand
18	Avinash G. J.	Standardization of the assay media conditions for the development of precise assay method of soil urease activity
19	Devappa	Soil moisture dynamics in conservation agriculture
20	Prakruti Ashokbhai Khatsuriya	Salinity ingress preventing 'Bandhara': A potential biodiversity hotspot for wetland-dependent Avifauna.
21	G Thiagarajan	Partial root drying for tomato under Greenhouse
22	Ganapathi	Effect of fertigation on soil nutrient status and fertilizer use efficiency in ridge gourd [<i>Luffa acutangula</i> (L.) Roxb] crop grown under protected condition
23	Versha Pandey	Screening of low Pb and Cd accumulating genotype of <i>Andrographis paniculata</i> (Burm. F.) Nees
24	Vanitha, T.	Nutrient concentration in hydrophytes as influenced by different filter beds in the vertical flow constructed wetland
25	Shaheemath Suhara K K	Estimation of surface runoff from Pare Pallam Catchment of Karamadai using GIS Techniques
26	Kiran Bala	Impact of water shortage on the economy and the environment
27	Ganesha B.H.	Water productivity of different farming systems under <i>Dalbergia sissoo</i> -wheat based agroforestry systems
28	Prashanth R C	Physiology of fodder sorghum with intercropping under different crop geometry and nitrogen levels



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Day 1: 2nd December, 2022 (Friday)

Technical Session – III
Plant Nutrition for Food Security and Human Health

Zoom Meeting

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(Meeting ID: 814 9050 6690, Passcode: 582470)

Chairman: Dr. Ashok K. Patra, Ex-Director, Indian Institute of Soil Science, Bhopal, India

Co-Chairman: Dr. Isaiah Wakindiki, Professor and Chair of University Council, Jaramogi Oginga Odinga University of Science and Technology, Kenya/ **Dr. Atul Kumar Singh**, Principal Scientist, CSSRI, RRS, Lucknow, UP, India

Convener: Dr. N.K. Pareek, Associate Professor, S.K. Rajasthan Agricultural University, Bikaner, Rajasthan, India and **Dr. B.V. Champa**, Assistant professor, KSN University of Agricultural and Horticultural Sciences, Shivamogga, India

16:30-16:55	Lead Speaker 1: Dr. Hadi Pirasteh-Anosheh Associate Professor, Crop Physiology National Salinity Research Center, Yazd, Iran	Sustainable use of very saline soil for food security
16:55-17:20	Lead Speaker 2: Dr. Vijay Bhardwaj , Chairman, BioAtlantis India Pvt. Ltd., Noida, India	Mitigation of oxidative stress to achieve genetic yield potential in agricultural crops through BioAtlantis Agriprime technology
17:20-18:20	Oral presentations (Parallel Session-3)	
1	U. Bagavathi Ammal	Dissolution of Mussoorie rock phosphate in an Inceptisol (Fluventic Haplustept) using different amendments
2	R. Sankar	Post-harvest soil nutrient status, yield and nutrient uptake of Bhendi as influenced by foliar application of effective microorganisms solution
3	M S Marichamy	Integrated nutrient management on growth and yield of Okra
4	Anju T	Nutritional and dietary potential of traditional food plants from Kasaragod district, Kerala to ensure food security and human health



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5	Sujaina M	Effect of sulphur, zinc and boron nutrition on shelf life of onion (<i>Allium cepa</i> L.) in northern transitional zone of Karnataka
6	Prananath Barman	Canopy architecture management in young plants for higher productivity in Mango
7	Hiren Das	Zinc-Fortification of potato: A potential option for improving yield and human health
8	B.C. Dhananjaya	Influence of fish bone meal on yield attributing characters and yield of tomato
9	Ramya, H. N.	Study on nutritional and sensory quality of wheat flour biscuits blended with Amla powder and soya flour
10	Abhilasha, P.	Study on nutritional and sensory quality of salt biscuits fortified with flaxseed powder and fenugreek leaves
11	Pushpendra, H.M.	Development and evaluation of physico-chemical properties of Moringa-Aonla-Aloe vera blended ready-to-serve (RTS)
12	Debabrata Dhar	Assessment of critical limits of boron in potato growing soils of West Bengal
13	P.V. Geetha Sireesha	Soil fertility mapping of Guntur district using QGIS
Poster presentations (Parallel Session-3) Zoom Meeting 18:00-20:00 https://us02web.zoom.us/j/89174298557?pwd=NkFZMWpDdjJzazFaTFduazZTZUxZDZz09 (Meeting ID: 891 7429 8557, Passcode: 3ICANRCM)		
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1	Ranjitha G	Impact of iron and zinc nutrition on quality and yield of linseed (<i>Linum usitatissimum</i> L.)
3	Gargi	Importance of plant bioactive compounds for human health
4	Meenu Rani	Effect of various processing techniques and storage on anti-nutritional bioactive characteristics of barley



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5	Jayalaxmi B Pawar	Women as Agripreneurs in dairy farming for sustainable livelihood
6	Nichitha, C. V.	Effect of nutrient management in Ginger on soil fertility status
7	B.V. Champa	Effect of different levels of secondary nutrients on growth and yield of Banana
8	Meghana, P.	Effect of fertigation on soil nutrient status, nutrients uptake and productivity of ridge gourd [<i>Luffa acutangula</i> (L.) Robx.] under protected cultivation
9	Umme Seema N.	Role of phytochemicals in obesity management
10	Kavyashree C.	Impact of foliar nutrition on dry matter accumulation of summer cowpea
11	Channakeshava S.	Effect of zinc and boron application on fractions of zinc and boron in soils of paddy-cowpea cropping sequence.
12	Shivani	Studies on post-harvest application of different chemicals on shelf life of sapota CV. kalipatti
13	Raghavendra S.	Effect of nutrient management on soil enzyme activities in Ginger
14	Nivvethapriya G.	Management of secondary nutrients in acid soils and its effect on growth parameters of Banana cv. Ney Poovan
15	Shilpa Kumari	Influence of different levels of phosphorus and citric acid on growth parameters of Soybean in an Alfisol
16	Mehnaza Bashir	Effect of various pre-treatments/ osmotic agents and storage on quality of osmo-dried aonla slices
17	Ashok Bhgwan Age	Effect of NPS compost and foliar application of humic acid on yield and quality of Safed musli
18	Ziya Ul Huq	Effect of Nano-N and Nano-Zn foliar fertilization on proximate and mineral composition of finger millet under dryland condition
19	Skarma Choton	Seabuckthorn an underutilized resources for food security and livelihood enhancement in Ladakh
20	Abhilasha P.	Standardization and quantification of procedure for preparation of Garcinia gummigutta ghee
21	Akshaykumar	Evaluation of coloured sorghum genotypes for grain yield, protein, iron and zinc content



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22	Umil, S. N.	Quality parameters of Chia (<i>Salvia hispanica</i> . L) as influenced by different spacing and fertilizer levels in Eastern dry zone of Karnataka
23	Soumya Hiregoudar	Pulse enriched beetroot soup mix: an innovative step towards uplifting the human health
24	Bhavana, A.	Development of Beetroot (<i>Beta vulgaris</i>) based value added beverage: A remarkable step towards sustainable food security and human health
25	Anupam Yadav	Effect of chemical fertilizer and organic manure on growth attributes of maize (<i>Zea mays</i> L.)
26	Piyush Choudhary	Response of maize under foliar application of Zinc based nano fertilizer and varying fertility levels on quality, yield and economics
27	Akanksha Singh	Green nanoparticles improve plant growth and soil health
28	Vikrant P. Bhalerao	Evaluation of critical limits of zinc in soil for pearl millet grown on swell shrink soils
29	Archana, B. and Bindhu, J.S.	Zinc nutrition in plants: A significant way to meet national nutritional security
30	M. S. Anitha, V. Govinda gowda, O. R. Nataraju., K. R. Srenivasa and Y. P, Shilpashree	Productivity enhancement in little Millet (Saame) through front line demonstration on yield and economics on farmers in Tiptur taluk of Tumkur district, Karnataka, India
31	Shwetha Kumari U	Effect of Residue and Nutrient Management on Growth and Yield of Paddy in Paddy - Paddy Cropping System
32	Boddu Archana	Zinc nutrition in plants: a significant way to meet national nutritional security
33	Shyam Jadhao	Response of Maize under Foliar Application of Zinc Based Nanofertilizer and Varying Fertility Levels on Quality, Yield and Economics



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December 02-03, 2022

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Day 2 : 3rd December, 2022 (Saturday)

Technical Session – IV Biodiversity Conservation and Soil Health Zoom Meeting https://us05web.zoom.us/j/81490506690?pwd=MjdVSzVnTnF6cGpRjRjNSTWZ2UEQrZz09 (Meeting ID: 814 9050 6690, Passcode: 582470)		
Chairman: Mr. J. Justin Mohan , IFS, Secretary, National Biodiversity Authority, Taramani, Chennai, India Co-Chairman: Dr. Hadi Pirasteh-Anosheh , Assistant Professor, Crop Physiology, National Salinity Research Center, Yazd, Iran Convener: Dr. Tarun Adak , Senior Scientist, Central Institute for Subtropical Horticulture, Rehmankhura Lucknow, India, Mr. Kapil Malik , Senior Research Fellow, CSSRI, Karnal, India, Ms. Manu Rani , CCS Haryana Agricultural University, Hisar, India		
09:00-09:25	Lead Speaker 1: Dr. Sanjay Arora , Principal Scientist, Central Soil Salinity Research Center (CSSRI), RRS, Lucknow, India	Soil microbial diversity conservation for managing soil health and crop production
09:25-09:50	Lead Speaker 2: Dr. Vasudeva R , Dean (Forestry), College of Forestry, SIRSI, UAS, Dharwad, Karnataka, India	Status, Conservation and Sustainable Management of Soil Biological diversity in agroecosystems
09:50-10:50	Oral presentations (Parallel Session-4)	
1	Gowthamchand N. J.	Impact of Land Use Systems on Soil Organic Carbon under Entisols of Punjab in North-western India
2	Srikala S. Reddy	Ethnobotany of macro Southern Deccan region for human health: a case study
3	Sahadeva Singh	An advance techniques for weed classification using deep learning techniques
4	Khushboo Randhawa	Estimation of Forest Fragmentation in Urban Forest. A case study of Asola and Bhatti Wildlife Sanctuary in Delhi, India
5	Mohd Raza	Agro – pastoralism in Ladakh: current trends and challenges
6	Hriday Kamal Tarafder	Influence of land use system and altitudinal gradient on soil nutrient status in Himalayan



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		region of West Bengal
7	Aosanen Ao	Species composition, forest structure and biomass carbon assessment in subtropical evergreen forest of Northeast India - A case study in Peren district of Nagaland
8	Arpita Singh	Lantana camara invasion's effect on stakeholders in Kanha-Pench wildlife corridor
9	Kalzung Targe	Conservation linkages of natural resources used by the local agropastoral community in Pin valley National Park, Himachal Pradesh, India.
10	B. Bhanukiran Reddy	Lignite-derived humic acid effect on soil properties, plant growth and nutrient uptake by plant
11	Kaberi Mahanta	Bioremediation of Metribuzin by bacterial consortia from polluted soils of Assam
12	Deo Kumar	Evaluation of nutrient status in vermicompost prepared from different organic waste using <i>Eisenia fetida</i>
13	Debashish Sarkar	Prevalence of pathogens associated with root rot disease of lentil under different tillage system in rice based cropping pattern
11:00-13:00	Poster Presentations (Parallel Session-4) Zoom Meeting https://us02web.zoom.us/j/83549268095?pwd=OVZUc1VkS0NpQlpljamNEYkw1TzQ4Zz09 (Meeting ID: 835 4926 8095, Passcode: 3ICANRCM)	
	Chairman: Dr. Vikas Sharma , Professor & Head, SKUAST, Jammu, India Co-Chairman: Dr. D.A. Sumana , KSN University of Agricultural and Horticultural Sciences, Shivamogga, India Convener: Dr. Jayaprakash , KSN University of Agricultural and Horticultural Sciences, Shivamogga, India	
1	Abhishek Pratap Singh	Evaluation of growth and yield performance of <i>Allium sativum</i> L. varieties under agri-horticulture systems in Mid-hill situations of Himalaya
2	Rakshitha T. N.	Utilization of stingless bee, <i>Tetragonula iridipennis</i> Smith as a pollinator of gherkin under protected cultivation
3	Dileep Kumar N. T.	Impact of biorationals on soil arthropod fauna in acid lime ecosystem
4	Chaitra P.	Effect of humic acid application on soil residual nutrient status



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5	G.S. Laharia	Effect of biochar application on yield, quality and uptake of nutrients by maize grown in Vertisol
6	Varalakshmi V.	Influence of compost coated and blended phosphatic fertilizers on phosphorus dynamics and nutrient status of maize (<i>Zea mays</i> L.) in Alfisols
7	Naveen Tariyal	Achieving sustainable development goals through the traditional agroforestry systems in Garhwal Himalayan region
8	Divya	Biodiversity conservation and soil health
9	Shivani Singh	Vermiwash; effects and significance
10	Neha Imtiyaz	Parental investment by Oriental Darter in Keoladeo National Park, Bharatpur, Rajasthan, India.
11	Sujay Hurali	Ecological engineering: a modern rice insect pests management method for global food security
12	Hari Prasad Mohale	Oceanic Pollution and Its Impacts on Aquatic Organisms
13	Islam Mohammad Zidan	Arthropod diversity and distribution; how could the agricultural procedures impact?
14	Suvarna	Evaluation of sorghum landraces for carbohydrate and protein content
15	Bonjuri Saikia	Screening of plant growth promoting rhizobacteria from rhizosphere microbiome of Tezpur Litchi
16	Hossein Rezaei	Adverse consequences of tourism on Arasbaran forest soils
17	Nikhil Reddy K. S.	Relevance of soil arthropods in restoration of soil health
18	Rita Deb	Diversity of aquatic coleoptera from Navegaon National Park, Maharashtra
19	Ahanthem Rebika Devi	Identification of deforestation hotspots in Manipur, Northeast India using earth observation satellite data
20	Bhagwan A. Sonune	In- situ green manuring with sesbania in cotton, a cost-effective alternative for sustainable soil health and crop productivity in salt affected soils of Purna valley in Vidarbha region of Central India
21	Suma R.	Non Timber Forest Products (NTFP's): Benefit sharing and socio-economic status of local



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		communities through village forest Committees (VFCs) in Uttara Kannada district
22	Mohd. Ahsan	Comparative assessment of different biochars on soil quality and productivity
23	Mubashir Rashid	Biological control of insect pests: Pteromalidae (Hymenoptera: Pteromalidae), a potential biological control agent
24	Utkarsha Viju Amolic	Smart fertilizer as a strategy for sustainable agriculture
25	Anchal Singh	Biodiversity and Conservation in Agriculture
26	Shubham Mishra	Biodiversity conservation and soil health
27	Vinod Singh	A study on problems of Sericulture farmers in North India
28	Arbind Gupta	Evaluation of Soil fertility index of KVK and RARS Belatal, Mahoba district of Bundelkhand region
29	Amar Chand	Honey bee an Efficient Pollinator: A Review

Day 2: 3rd December, 2022 (Saturday)

Technical Session – V Ecological and Environmental Sustainability via Integrated and Nature Friendly Farming Zoom Meeting https://us05web.zoom.us/j/81490506690?pwd=MjdVSjVBNnRnF6cGpRjRjNSTWZ2UEQrZz09 (Meeting ID: 814 9050 6690, Passcode: 582470)		
Chairman: Dr. D.L.N. Rao, Ex-Project Coordinator (BNF), Indian Institute of Soil Science, Bhopal, India & ICAR Emeritus Scientist Co-Chairman: Dr. Girijesh, KSN University of Agricultural & Horticultural Sciences, Shivamogga, India Convener: Dr. K. Rajan, Principal Scientist, ICAR-IISWC, Dehradun Dr. (Mrs) Sarabdeep Kour , Associate Professor, SKUAST Jammu, India		
11:00-11:25	Lead Speaker 1: Dr. Rajesh Joshi , GB Pant Institute of Himalayan Environment, Gangtok, Sikkim	Climate Adaptation and Environmental Sustainability through Integrated Land management practices
11:25-11:50	Lead Speaker 2: Dr. Lamy Hamed , Soil and Water Department, Faculty of Agriculture,	Regenerative Agriculture: Restoring Soil Health and Quality, an approach for climate change reverse



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	Cairo University, Egypt	
11:50-12:50	Oral presentations (Parallel Session-5)	
1	M.S. Hadda	Renewable energy and sustainable agriculture
2	Rakesh Kumar	Integrated farming systems for nutritional security and agricultural sustainability
3	Vivek Chauhan, Arya Singh and Shikha Ahlawat	Rice-fish-duck integrated farming promising way for doubling farmers' income
4	Vaishnavi H. N.	Feasibility of crop intensification through intercropping of legumes in FCV tobacco
5	V. Kanthaswamy	Studies on organic farming in radish [<i>Raphanus sativus</i> (L.)] under coastal region of Karaikal
6	Naveen .N.E.	Effect of <i>Salvinia molesta</i> vermicompost on soil fertility and crop productivity on paddy-groundnut cropping system in Udupi district of coastal Karnataka
7	Md. Ariful Islam	Effects of conservation agriculture in rice-based cropping systems on soil aggregation and crop yields in Bangladesh
8	Pushpa P.	A study on grouping of Livestock production systems of periurban and rural livestock owners of Belgaum district of Karnataka state
13:00-14:00	Poster Presentations (Parallel Session-5) Zoom Meeting https://us02web.zoom.us/j/83549268095?pwd=OVZUc1VkS0NpQlpjamNEYkw1TzQ4Zz09 (Meeting ID: 835 4926 8095, Passcode: 3ICANRCM)	
	Chairman: Dr. Parashurama Chandravanshi , KSN University of Agricultural and Horticultural Sciences, Shivamogga, India Co-Chairman: Dr. S.M. Jayaprakash , KSN University of Agricultural and Horticultural Sciences, Shivamogga, India Convener: Dr. Bhavya V.P. , KSN University of Agricultural and Horticultural Sciences, Shivamogga, India	
1	Rashee Ba Iqbal	Integrated farming system a new holistic approach to double farmer's income.
2	Sakshi	Effect of organic treatments on quality of guava (<i>Psidium guajava</i> L.)
3	Gitanjali Rathore	Jaivik krishi inputs for better agriculture
4	Settipalli Sravani	Natural Farming - A stairway to sustainable agriculture development and prosperity



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5	Pokala Sravani	Integrated and Nature Friendly Farming
6	J. Aruna	Exploitation of Actinobacterial extracts for Eco-friendly management of insect pests
7	Ashwini A.	Effect of different dosage and frequency of liquid jeevamrutha on soil microbial population and yield of marigold (<i>Tagetes erecta</i> L.) cv. Calcutta Orange
8	Riya Thakur	Socio-economic status of Natural farming farmers in Mandi district of Himachal Pradesh
9	Sathish, B. R	Effect of different dosage of liquid jeevamrutha and ghana jeevamrutha on soil physical parameters and yield of guava (<i>Psidium guajava</i> L.) cv. L-49
10	R.C. Prasanth	Physiology of fodder sorghum with intercropping under different crop geometry and nitrogen levels
11	Veeranna, H. K.	Comparative studies of conventional, organic and natural farming types for their efficiency, productivity and profitability in Paddy
12	Shyamji Mishra	Effect of different adenine sulphate, agar and pH levels on in vitro multiplication of gerbera (<i>Gerbera jamesonii</i>)
13	Preeti	Integrated farming systems for food and nutritional security in north western Himalayas
14	D.K. Patidar and Roopesh Sharma	Impact of plant growth regulator and rooting media on shoot characters of cuttings of grape (<i>Vitis vinifera</i> L.)
15	Deepak Prajapati	Boosting Soil Quality to Mitigate Soil Degradation

Day 2: 3rd December, 2022 (Saturday)

Technical Session – VI
**Climate Smart Agriculture and Modern Information
Technological Tools for sustainability**

Zoom Meeting

<https://us05web.zoom.us/j/81490506690?pwd=MjdVSVBnTnF6cGpRjNSTWZ2UEQrZz09>

(Meeting ID: 814 9050 6690, Passcode: 582470)



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Chairman: Dr. Mathyam Prabhakar , PI NICRA (National Innovations in Climate Resilient Agriculture) Project & Principal Scientist, ICAR-CRIDA, Hyderabad, India Co-Chairman: Dr. Susanta K. De , Professor & Head, Department of Soil and Water Conservation, BCKVV, Kalyani, Nadia, West Bengal, India Convener: Dr. Kaberi Mahanta , Scientist, HRS, Assam Agricultural University, Kahikuchi Guwahati, Assam, India		
13:00-13:25	Lead Speaker 1: Dr. Girish Pujar , Scientist SG, Rural Development & Watershed Monitoring, RSA, NRSC, Indian Space Research Organization (ISRO), Hyderabad	Use of RS/GIS in SDGs, Social sector, and Development of Geospatial Indicators
13:25-13:50	Lead Speaker 2: Dr. Terenzio Zenone , Senior Researcher, Institute for Mediterranean Agricultural and Forest Systems (ISAFOM), National Research Council (CNR), Portici, Italy	Agricultural Greenhouse gases emission: current understanding and future research directions
13:50-14:50	Oral presentations (Parallel Session-6)	
1	B. Anitha	Role of artificial intelligence in sustainable agriculture
2	Raj Kumar	Assessment of response of agro-forestry practices to extreme weather events
3	Tariq Iqbal	Joint forest management programme in Jammu and Kashmir: Socio-economic analysis
4	Ramwant Gupta	A new model for the photosynthetic performance of finger millet in response to nitrogen application
5	Bulbul Ahmed	An advanced technique for weed classification using deep learning techniques
6	Vimal Sharma	A study of smart technical assistance for increase productivity in kitchen garden using IOT and Blank Kit App
7	Janani N.	A spatial analysis of land surface temperature using google earth engine and quantification of its driving factors
8	Obaid Zaffar	Time series prediction analysis of rice production using artificial neural networks for



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		Jammu and Kashmir
9	Banoth Madhu	Building and adaptation of narrow-window flowering and early-maturing zeromonopodial cotton (<i>Gossypium hirsutum</i> L.) for climate change, and monsoon vagaries
10	Chiranjeev Kumawat, Prerna Dogra	Assessment of soil carbon sequestration in different agroforestry systems under semi-arid region of Rajasthan
11	Tridiv Ghosh	Evaluation of satellite remote sensing based crop evapotranspiration models over a semi-arid irrigated agricultural farm
12	Plabani Roy	Land degradation evaluation using geospatial technology in the Ballia district of Uttar Pradesh, India
14:00-15:00	Poster Presentations (Parallel Session-6) Zoom Meeting https://us02web.zoom.us/j/83549268095?pwd=OVZUc1VkS0NpQlpljamNEYkw1TzQ4Zz09 (Meeting ID: 835 4926 8095, Passcode: 3ICANRCM)	
	Chairman : Dr. B.C. Dhananjaya , KSN University of Agricultural and Horticultural Sciences, Shivamogga, India Co-chairman: Dr. Ravikumar D , KSN University of Agricultural and Horticultural Sciences, Shivamogga, India Convener: Dr. Rajashekhar D Barker , KSN University of Agricultural and Horticultural Sciences, Shivamogga, India	
1	Ashutosh Kumar	Conservation Agriculture: Problems, Prospects and it's issue
2	Santosh	Effect of carbon sequestration on agriculture, soil and environment
3	Marthala Bhuvaneswar Reddy	Resource Conservation Technologies; a way forward to restore productivity and profitability of Rice-Wheat system of IGP belt under changing climate
4	Karishma CG	Surface runoff estimation using Google Earth Engine for lower Bhavani basin, Tamil Nadu
5	P. Tanuja	Climate smart agriculture
6	Tanu Prakash	Multitemporal analysis of South Delhi using geospatial techniques
7	Soniya Rishi	Green house effect on crop growth and productivity
8	Jayasudha J.	Information and Communication Technology (ICT) for sustainable development



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9	Riffat Iqbal	Agricultural waste based Low-cost Adsorbents for Sustainable Wastewater Treatment
10	Annapurna Neeralgi	Harnessing Digital Technologies in Agriculture for sustainable food production
11	Amruta Raut	Effect of wheat-maize (fodder) cropping sequence on soil quality, residual effect, yield under climate smart agriculture
12	Gargi Sharma	Crop residue assimilation as an alternative to minimize the deleterious effects of burning straw
13	Anshul Sharma	Climate Smart Agriculture: Innovative strategies for achieving SDGs

Day 2: 3rd December, 2022 (Saturday)

Valedictory Session

Zoom Meeting

<https://us05web.zoom.us/j/81490506690?pwd=MjdVSVBnTnF6cGpRiNSTWZ2UEQrZz09>

(Meeting ID: 814 9050 6690, Passcode: 582470)

15:30-15:45	Welcome, Proceedings and Declaration of Awards	Dr. Ajay Kumar Bhardwaj , Principal Scientist, CSSRI, Karnal & Organizing Secretary
15:45-16:00	Address by <i>Guest of Honor</i>	Dr. Y.P. Singh , Emeritus Scientist ICAR & Vice-President, ANRCM, Lucknow, India
16:00-16:30	Address by <i>Chief Guest</i>	Dr. P.L. Patil , Vice Chancellor, UAS, Dharwad, India
16:30-16:35	Vote of Thanks	Dr. Sanjay Arora , Secretary, ANRCM, Lucknow, India