

INTERNATIONAL WEB-CONFERENCE on

Resource Management and Biodiversity Conservation to Achieve Sustainable Development Goals

September 11-12, 2020

Organized by: Academy of Natural Resource Conservation and Management, Lucknow (UP), INDIA www.anrcm.org

Programme

DAY 1

	September 11, 2020
	INAUGURAL SESSION
	Chairman : Dr. D.K. Sharma, Ex-Director, ICAR-CSSRI, Karnal, Haryana, India
	Co-chair : Prof Annie Melinda Paz-Alberto, Central Luzon State University, Philippines
	Convener : Dr. Pradeep K. Rai, SKUAST Jammu, India; Dr. C.S. Singh, CSSRI, RRS, Lucknow, India
10:00-10:05	Welcome Address by Dr. Atul K. Singh , President, ANRCM
10:05-10:10	About ANRCM by Dr. Sanjay Arora , Secretary, ANRCM
10:10-10:15	About International Web Conference by Dr. Sanjay Swami , Organizing Secretary
10:15-10:35	Inauguration of International Web-Conference and Inaugural Address by Prof Carmelo Dazzi, President,
	European Society for Soil Conservation, Universita di Palermo, Italy
10:35-10:50	Address by Guest of Honour, Prof. S.H.R. Sadeghi , Tarbiat Modares University, Iran
10:50-11:10	Keynote Speaker Prof (Dr.) N.S. Rathore, VC, MUPAT, Udaipur & Ex-DDG, ICAR, New Delhi, India
	Topic: Renewable Energy Sources for Agriculture
11:10-11:30	Keynote Speaker Dr. Ashok K. Patra, Director, ICAR-Indian Institute of Soil Science, Bhopal & President,
	Indian Society of Soil Science, New Delhi, India
	Topic: Enhancing Nitrogen Use Efficiency: A Key for Soil Health and Food Security
11:30-11:50	Lead Speaker Prof. Miodrag D. Zlatic, Belgrade University, Serbia
	Topic: Necessity For Soil Management For Sustainability
11:50-12:10	Lead Speaker Prof. Jiftah Ben-Asher, Ben Gurion University of the Negev- Beer Sheva, Israel
	Topic: Proximal sensing of nitrogen needs by spring wheat
12:10-12:15	Vote of thanks by Dr. Nilay Borah , Organizing Secretary

TECHNICAL SESSION- I			
Eff	Efficient Soil, Water and Energy Management under diverse ecosystems		
	Chairman : Prof. S.H.R. Sadeghi, Tarbiat Modares University, Iran		
	Co-chairman : Dr. Vikas Sharma, SKUAST, Jammu, India		
	Convener : Dr. Shefali Srivastava, Lucknow; Mr. Navneet Sharma, PAU, Ludhiana		
12:15-12:35	Lead Speaker Dr. Vikas Sharma, SKUAST Jammu, Soil erosion risk mitigation from Agricultural production		
	India systems in foothill Himalayas		
12:35-12:55	Lead Speaker Dr. Nand K. Agrawal, ICIMOD, Nepal Solutions centric approach to Adaptation and resilience		
	building: Experience from Hindu Kush Himalaya		
12:55-13:15	Lead Speaker Dr. Zainab Khalid, Lanzhou Efficient water management system in diverse		
	University, Lanzhou ecosystems		

13:15-13:45	Oral Presentations	
		Farm level soil, water and energy conservation through efficient irrigation practices Mamatha Prabhakar, Sreeja, K. and Anjaly C. Sunny
		Resilience and interactive effects of soil depth and slope position on soil chemical characteristics as affected by fencing under semiarid tropical environments <i>M.S. Hadda, Sanjay Arora and K.B. Thapa</i>
		Temporal and spatial variations of salt affected soils at Dubti/Tendaho state farm, north eastern Ethiopia Sileshi Abbi, Kibebew Kibret and Amanuel Zenebe
		Hydro-geochemical investigations in Upper Ganga Basin, India M. K. Sharma, Parul Prajapati, Kunarika Bhanot, Udita Wadhwa and Garima Tomar
13.45-14.00	Poster Presentations	
14:00-14:30	Lunch Break	

Innovativo	TECHNICAL SESSION- II approaches & Policy Responses for Agricultural Sustainability and Livelihood	
innovative	Security	
	Chairman : Dr. Y. P. Singh, ICAR-CSSRI, RRS, Lucknow, India	
Co-chairman: Dr. Zachary Gichuru Mainuri, Egerton, Kenya		
	Convener : Dr Ratna Sahay, KVK Unnao, India; Mr. Rohit P. Ojha, CSSRI, RRS, Lucknow, India	
14:30-14:50	Lead Speaker Dr. Stefanos Xenarlos, Nazarbayev Gender Impacts from Weather Extremes in South India University, Kazakhsthan	
14:50-15:10	Lead Speaker Dr. Sudarshan Dutta, APNI, Morocco Climate Smart Nutrient Management Approaches in Smallholder Farming System	
15:10-15:30	Lead Speaker Dr. Mahesh K. Gathala, CIMMYT, Bangladesh Enabling smallholder farmers to sustainably improve their food, energy and water nexus while achieving environmental and economic benefits in the EGP: Conservation agriculture-based sustainable intensification for smallholder systems	

Dr. Arvind Kumar Ishar Impact of COVID-1 Kashmir, India Arvind K. Ishar, Su Kumar Dr. Ravindra Kumar Dissemination patt four blocks of Mora system Ravindra Kumar, M Dr. Samikshya Sedhai Good agriculture p	19 on agriculture and allied sectors in Rajouri district of Jammu & uraj Parkash, Parul Gupta, Vishal Sharma, Rohit Sharma and Rajesh
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system Ravindra Kumar, M Dr. Samikshya Sedhai Good agriculture p	
Dr. Samikshya Sedhai Good agriculture p	adabad district of Uttar Pradesh under sugarcane – wheat cropping
Dr. Samikshya Sedhai Good agriculture p	
	Manoj Singh, Devendra Pal Singh, A. K. Mishra and N.C.Tripathi
factors affecting av	ractices in mandarin (Citrus reticulata Blanco); perception and
	wareness among farmers at Gulmi, Nepal
	i, Surya Dhungan, Puspa Raj Dulal and Gaurav Adhikari
	neat and mustard in Agroforestry system under Terai conditions of
UP UP	T: ": M. M. I. I. I.O.O. D. I.
	Tripathi, Afreen Mohsin and S.S. Dhaka
	rent alternate landuse systems for rainfed sub-tropics of Jammu
•	ımar, Brinder Singh, A.P. Rai, Vikas Gupta, Permendra Singh and
Reena Studios on rovival	and cancer ation of Kachmiri Ambri annia
	and conservation of Kashmiri Ambri apple ii ,Sabiha Ashraf, K.M.Bhat and M.K. Sharma
	f difference genotypes of ber, Ziziphus mauritiana against bruit
borer, <i>Meridarchis</i>	
	. Singh and S. S. Singh
	w vein mosaic virus resistant single cross hybrids for yield and
	ra (Abelmoschus esculentus L. Moench)
· ·	K.K. Samnotra Manmonan Snarma and R. K. Salqotra
J	R.K. Samnotra Manmohan Sharma and R. K. Salgotra es for subtropics of North East India
16:30-18:00 Poster Presentations	es for subtropics of North East India H. Rymbai and A. K. Jha



	September 12, 2	2020
	TECHNICAL SESSION	
Biodivers	ity Conservation, Resource Management a	
	Developmen	nt en
	Chairman : Dr. M.S. Hadda, PAU, Ludhiana, Pun	
	Co-chairman : Dr. Ajay K. Bhardwaj, ICAR-CSSRI, Ka	arnal, India
	Convener : Dr. Sarabdeep Kour, SKUAST Jammu;	; Mr. Pema Rinzin, Royal University of Bhutan
10:00-10:20	Keynote Speaker Dr. Warshi S. Dandeniya,	Carbon sequestration in soils under annual crop
	University of Peradeniya, Sri Lanka	cultivation: challenges and way forward
10:20-10:40	Keynote Speaker Dr. Nakul Chettri, Programme	Biodiversity Conservation, Sustainable Development and
		Climate Resilience in the Himalayas
10:40-11:00	Lead Speaker Prof. U.K. Behera, Dean, CoA, CAU,	Conservation agriculture for enhancing resource use
	Kyrdemkulai	efficiency and crop productivity

11:00-11:30	Oral Presentations	
	Dr. B. N. Hazarika	Underutilized citrus fruits of Arunachal Pradesh
		B. N. Hazarika
	Dr. Sheeba Rebecca	Resource management and sustainability through organic recycling in homestead
		agroforestry systems
		Reshma Das, Harishma S. J. and Sheeba Rebecca Isaac
	Dr. Meenakhi Prusty	Organic Farming-A Key To Sustainable Agriculture
		Meenakhi Prusty
	Dr. Sheeja K Raj	Crop intensification for enhanced production under organic farming in Nendran
		banana
		Sheeja K. Raj, K. Prathapan and N.V Radhakrishnan
		Exploitation of zinc solubilizing bacteria for zinc nutrition in rice
		Nilakhi Dutta, Anjuma Gayan, D.J. Nath and Jyotirupa Kalita
11:30-12:00	Poster Presentations	

TECHNICAL SESSION-IV Agriculture Diversification, Nutrient Management, Soil Health and Options for Environmental Sustainability			
	Chairman : Dr. T.K. Srivastava, ICAR-IISR, Lucknow		
	Co-chairman : Dr. K. Rajan, ICAR-IISWC, RC, Udghamandlam, Tamil Nadu, India		
	Convener : Dr. Akbar Hossain, Bangladesh; Dr. Rajan Bhatt, PAU, Ludhiana		
12:00-12:20		Crop diversification: Key attributes for productivity in	
		saline, drought and heat prone marginal environment	
12:20-12:40	Lead Speaker Dr. S.P. Vista, NARC & Secretary,	Soil fertility management in various ecological belts of	
	NSSS, Nepal	Nepal	
12:40-13:00	Lead Speaker Dr. S.K. Sharma, MPUAT, Udaipur	Global perspective of Organic farming	

13:00-13:40	Oral Presentations	
	Dr. Rajeev Padbhushan	Role of integrated nutrient management in soil health and microbial activity under
		Indian subcontinent: A meta-analysis approach
		Rajeev Padbhushan, Upendra Kumar, Anshuman Kohli, Sheetal Sharma and D. S.
		Rana
	Dr. Kaberi Mahanta	Long term effect of fertilizer and herbicides on soil properties and productivity of rice-
		rice system in rainfed lowland ecosystem under subtropical region of eastern
		Himalayas, India
		K. Mahanta, D. J. Rajkhowa, M.J. Konwar, R.K. Parit and D. Sonowal
	Dr. Nongthombam	Nitrogen transformation in paddy soil fertilized with urea and organic manures
	Surbala Devi	N. Surbala Devi, Kh. Manorama and T. Sanahanbi Devi
	Dr. Mukesh Kumar Jat	Impact of INM on soil fertility and yield in Abelmoschus esculentus – Allium cepa
		cropping system in semi arid zone of southern Haryana
		M. K. Jat, R. Singh, P. K. Yadav, Amit Kumar, R.P.S. Deswal and Bikram Singh
12:30-13:40	Concurrent Poster Preser	ntations
13:40-14:00	Lunch Break	

TECHNICAL SESSION- V			
Precision Agriculture and Climate Smart Approaches for Sustainable Management of Resources			
Chairman : Dr. Ashwani Kumar, Ex-Director, ICAR-IIWM, Bhubaneshwar, Odisha, India			
Co-chairman: Dr. Munish Kumar, CSAUAST, Kanpur			
Convener : Ms. Divya Sahni, Amity University, Lucknow, India; Dr. N.K. Pareek, SKRAU, Bikaner, India			
14:00-14:20	Keynote Speaker Prof. Ildefonso Pla Sentis,	Soil and water use and management under climate	
	University of Lleida, Spain & Past President, ISCO	changes for sustainable agricultural developments	
14:20-14:40	Lead Speaker Dr. Reeta Rai, Bhutan	Surface water pollution due to vehicle washing activities	
14:40-15:00	Lead Speaker Prof. Dillip K. Swain, IIT Kharagpur	Climate change adaptations for food security	

15:00-16:30	Oral Presentations	
	Dr. M.L. Gaur	River pollution and quantitative dilapidation of water resources in Gujarat
		Murari Lal Gaur and Bhavin Ram
	Dr. A. Madhavi Lata	Climate smart approach through Silvi-medicinal system
		A.Madhavi Lata and Ashly Abraham
	Dr. Santosh Marahatta	Ecological weed management practices and seed bed preparation optimized the yield
		of dry direct seeded rice in sub humid condition of Chitwan, Nepal
		Santosh Marahatta
	Dr. G. T. Patle	On-farm rainwater harvesting for vegetable production using low cost poly houses in
		NEH region
		G. T. Patle
	Dr. B.R. Bazaya	Influence of irrigation methods and weed management practices direct-seeded rice
		B. R. Bazaya, R. Puniya, S. M. Dadhich, Ashiana Javeed and Supneet Kaur
		Diversification of maize based cropping system under middle Gujarat conditions
		Monika Shukla, A. C. Sadhu and Pinal Patel
	Dr. Nirmal Kumar Patra	Mapping District Level Emission of Greenhouse Gases from the Livestock Sector of
		Uttar Pradesh, India
	D A '' 1/	N. K. Patra and Suresh Chandra Babu
	Dr. Anita Kumawat	Impact of crop residue management on soil properties and crop productivity under
		conservation agriculture in Vertisols of Central India
	Dr. Tarun Adak	Anita Kumawat, A.K. Vishawakarma and Devideen Yadav
		Characterizing hydraulic architecture and soil properties in fruit orchards for precision
		farming Torun Adak, Kailaah Kumar and Vinad Kumar Singh
	Dr. Aigy K. Bhardwai	Tarun Adak, Kailash Kumar and Vinod Kumar Singh
	Dr. Ajay K. Bhardwaj	Sustainable resource conservation strategies for rice-wheat cropping systems and their relevance to climate resilience
		Ajay K. Bhardwaj
15:00-16:30	Concurrent Poster	All Poster Sessions:
13.00-10.30	Presentations	
	1 103011tations	Chairman: Dr. Anshuman Kohli
		Co-Chairman: Dr. Anil Sharma

	PLENARY SESSION	
Plenary Speaker:		
Prof (Dr.) Rattan Lal, Distinguished Professor, The Ohio State University, USA; WORLD FOOD PRIZE LAUREATE 2020		
Distinguished Froiceson, The Onio State University, OOA, WORLD FOOD FRIZE LAUREATE 2020		
16:30-16:35	Welcome of Plenary Speaker by Dr. Sanjay Arora , Secretary ANRCM & Convener Org. Committee	
16:35-17:15	Plenary Talk by Prof. (Dr.) Rattan Lal	
	Topic: Climate-Resilient Agriculture for Sustainable Management of Natural Resources and	
	Advancing Agenda 2030 of the United Nations	
17:15-17:45	Interaction with participants	
17:45-17:50	Vote of Thanks by Dr. Sanjay Swami , Organizing Secretary	

VALEDICTORY SESSION			
18:00-18:30	Proceedings Report and Declaration of Awards		

POSTER PRESENTATIONS

	September 11, 2020 (13:45 – 14:00)	
	POSTER SESSION- I	
Effici	ent Soil, Water and Energy Management under diverse ecosystems	
1	Annual and seasonal rainfall variability of Shillong, Meghalaya	MirbanaLusick K. Sangma
2	Effect of scheduling of irrigation with mulch under different	Satendra Kumar
2	planting methods on sugarcane juice quality	Sateriora Kumar
3	Application of no till technology for sowing of Wheat and Lentil	Vimlesh Kumar
		Pandey
4	Effect of irrigation levels and weed management on phytotoxicity in Chickpea	Sahaja Deva
5	Optimization of irrigation and fertigation levels for turmeric in western zone of Tamil Nadu	Thiyagarajan, G.
6		Geethu Jacob
O	Suchitha– An innovative thermochemical technology for proper solid waste management	Geeniu Jacob
7	Low cost rooftop level rainwater harvesting	Dharmendra Kumar
8	Effect of deficit irrigation and plastic mulch on growth and	Dhuri Pradnya
	production of drip irrigated tomato under naturally ventilated polyhouse	Kamalakar
10	Low cost perennial water harvesting structure, jalkund for	Gunajit Oinam
	sustainable livelihood of the Nungbrang village of Imphal east	
	district, Manipur,India	
11	Precision water management in different rice establishment	Midde Sai Kumar
	methods	
12	Irrigation and nutrient coupling on growth, yield, fruit quality and	Riasha Kar
	water use efficiency of Indian jujube in an Inceptisol	
13	Irrigation scheduling in mango (<i>Mangifera indica</i> L.) for higher water use efficiency	Arti Sharma
14	Conservation agriculture-Principal, problems and prospects in Indian conditions	Yogendra Kumar Shukla
15	Optimization of parameters for microbial degradation of benzo-α-	Arjita Punetha
13	pyrene	Aijita i ulicula
16	Proficiency of water purification system against bacterial	Nandani Raghav
	contamination in water	
17	Development of various rainwater harvesting structures to	Sarvepalli Vijaya
	strengthen groundwater and increase crop productivity in semi-arid	Kumar
	areas - A case study	
18	Adoption of conservation agriculture: a sustainable approach	Dipankar Saikia
	towards an efficient resource management and soil health	
	restoration	
19	Innovations for climate resilience in rainfed conditions in village	Vishal Prakash
	Warkhed, District Akola of Maharashtra State	Pandagale
20	Initial and conditional probabilities of South-West monsoon rainfall at Rajouri	Rohit Sharma
21	Water quality assessment for irrigation purposes in Yamuna River	Divya Thakur
22	Weed management of wheat in rice based cropping system under	Ramphool Puniya
	conservation agriculture system	
23	Effect of soil moisture and calcium carbonate content on leaf reddening in Bt. cotton	Swati Panjabrao Zade
24	Drought phenomena its occurrence and cost effective technologies	Mukesh Kumar
25	for mitigating its impact Assessing the influence of putrient management and imigation	Smithi D
25	Assessing the influence of nutrient management and irrigation	Sruthi P

	method on growth of two different rice cultivars - Uma and	
	Kanchana	
26	In-situ conservation of kharif moisture for timely sowing of wheat	Vishal Sharma
	in rabi season under rainfed conditions of Rajouri	
27	Conservation agricultural practices and soil nitrogen losses through	Divya Sharma
	erosion in foothill Shivaliks	
28	Effect of drip irrigation level and micronutrient application method	O. S. Bhukhar
	on yield of Indian mustard (Brassica juncea L.)	
29	Biostimulants: Source of mitigation of moisture stress in cow pea	Preety Rani and Sarita
		Devi
30	Conservation Agriculture- A climate smart approach for carbon	Bishnuprasad Dash
	enrichment	
31	Emitter spacing under point and disc source flow geometry for	Chhedi Lal Verma
	surface drip irrigation	
32	Evaluation of evapotranspiration models for estimating reference	Yadvendra Pal Singh
	evapotranspiration in sub-tropic region	

September 11, 2020 (16:30 – 18:00)			
	POSTER SESSION- II		
Inn	Innovative approaches & Policy Responses for Agricultural Sustainability and Livelihood		
	Security		
1	Study of livelihood security by adoption of cost effective NRM	Karuna Nidhan Singh	
	through agroforestry in SAT region, Central India		
2	Covid- 19 impacts on agriculture	Swati Singh	
3	Covid- 19 pandemic and its impact on livestock sector	Mohd Yousuf Dar	
4	Impact of Covid-19 pandemic on food and agriculture	Gudapati Ashoka Chakravarthy	
5	Value chain management in oilseed crops	Keisham Dony Devi	
6	Agroclimatic indices for prediction of groundnut yield under the middle Gujarat agroclimatic zone	Santosh Tukaram Yadav	
7	Leakage compositional changes accompanying to exposure of some mango cultivars to low temperature under field conditions	Ali Ashour Shaaban Sayed	
8	Germplasm evaluation and conservation strategies for Indian Elecampane	Harpal Singh	
9	SWOT analysis of organic farming with special reference to Nagaland	Nchumthung Murry	
10	Sustainable agriculture module for livelihood security	Ajay Babu	
11	Alternative sources of soil amendments for reclamation and management of salt affected soil	Vivek Kumar Patel	
12	Impact of Covid-19 on Indian agriculture	Ayushi Agarwal	
13	Covid-19 challenges to the agriculture policy	Sumit Bharat Wasnik	
14	a review paper on impact of environmental externalities in agriculture and allied sector	Rachana Bansal	
15	Biorational approaches for the management of various diseases of Indian mustard	Narender Singh	
16	Foliar supplementation to enhance pulse productivity	Pooja Singh	
17	Heterosis, inbreeding depression, heritability and genetic advance for grain iron and zinc concentration, yield and related traits in pearl millet [<i>Pennisetum glaucum</i> (L.) R. Br.]	Mithlesh Kumar	
18	Identification of simple sequence repeat markers associated for grain micronutrients concentration in pearl millet [<i>Pennisetum glaucum</i> (L.) R. Br.]	Mithlesh Kumar	
19	Impact of Covid-19 on livelihood security of mountain community	Rommila Chandra	
20	Resource conservation technologies in rabi pulses at farmers field and their impact on crop yield, technological and extension yield	Rajesh Kumar Kanojia	

	gaps	
21	Impact of Covid-19 on Indian agriculture	Prashant Bagade
22	Plant growth regulators and their importance in abiotic stress	Arvind Kumar
23	Integrated farming system and their impact on productivity and rural livelihood	Mattepally Vikram Sai
24	Resource capture and utilization through canopy stratification in homesteads: a blue print of sustainability	Arunjith P.
25	Impact of Covid-19 in agriculture at current scenario	Manish Raj
26	Nutrient requirement of papaya (<i>Carica papaya</i> L.) in the homestead farming system of Kerala for yield optimisation	Bindu B.
27	Resource conservation through alley cropping in interspaces of fruit orchards under rainfed conditions	Vikas Gupta
28	Strategies for boosting indian agriculture in the current scenario	Dayanidhi Chaubey
29	Yielding behaviour of chickpea varieties under varying plant rectangularities in late sown conditions of Pantnagar	Anita Arya
30	Baseline survey and identification of problems in hill cattle production system of Pauri Garhwal district of Uttarakhand	Naresh Prasad
31	Hi-tech agriculture and scopes of agri-entrepreneurship	Shaheemath Suhara K. K.
32	Interactive effect of green manure and zinc fertilization on the physical and nutritional quality of basmati rice under Indian ricewheat system	Devideen Yadav
33	Nitrification regulation - a mitigation strategy for nitrogen pollution in agriculture	Sruthy A. B.
34	Leaf surface inhabiting pigmented methylotrophic bacteria tapped for their plant growth promoting traits	Anjuma Gayan
35	Lycopene: A nutraceutical	Fozia Hameed
36	Suggestions from farmers to overcome the constraints in the efficient use of mobile communication technologies to transfer agricultural information	Pankaj Kumar Meghwal
37	Hydrolysis of urea by immobilized urease: An integrated approach for urease stabilization and its utilization in environmental and industrial applications	Rajnish Kumar Singh
38	Response of bottle gourd to organic and inorganic fertilizers	Amit Kumar
39	Seed Invigouration: A climate-smart crop production practice	Anju B. Raj
40	Impact of Covid-19 lockdown on farming community in cold desert region-Ladakh	Phuntsog Tundup
41	A study on use of banana leaves for the treatment of burn injuries in cows	Rudraswamy M.S.
42	Impact of Covid-19 pandemic on food supply chain and food industry	Skarma Choton
43	Plant breeding techniques in the era of changes	Shefali Gupta
44	Isolation and molecular characterization of zinc solubilising bacteria and evaluation of their potential to influence the growth and yield of maize (<i>Zea mays</i>)	Aradhana Sukhwal
45	Nutritional aspects of seabuckthorn to improve the livelihood condition in Gangotri region	Richa Badhani
46	Awareness and approach of people towards biomedical waste and household waste management during Covid-19	Naveena Nazim
47	Effect of surface sterilants on survival rate of <i>Dalbergia sissoo</i> roxb. through tissue culture technique	Aaradhna Chauhan
48	Effect of microclimate on the performance of salad cucumber under naturally ventilated polyhouse	Praveena K. K.
49	Affect of Covid 19 pandemic on Agri Start-ups	Anil Bhat

50	Repercussion of Covid 19 on Indian agriculture	Amardeep Kour
51	Mentha intercropping with wheat- A boon for the Farmers	Devendra Pal
52	Agriculture diversification in India	Sushila Aechra
53	Plants used in traditional health care of livestock of Uttarkashi,	Jai Laxmi Rawat
33	Garhwal Himalaya	Jai Laxiiii Kawat
54	Shelf life study of fruits and vegetables using chemical and natural	B. Naveena
	preservatives	2,1,4,,0014
55	Performance of different chemical herbicides on weed dynamics,	Shiv Poojan Yadav
	yield and economics in spring planted sugarcane (Saccharum	and Deepak Kumar
	officinarum L.).	Yadav
56	Characterization and classification of soils under different land uses	Pallabi Kalita
	in Golaghat district of Assam	
57	Vegetable grafting for environmental sustainability	Pooja P. Gowda
58	Bt cotton in India: An overview	Gangishetti
		Ranjithkumar
59	Sahiwal cattle, the pride of India: An overview	Devesh Singh
60	Role of GA3 and BA in floriculture	Renuka
61	Constraints perceived by the farmers in adoption of IPM practices	Sita Ram Bijarnia
	in cauliflower cultivation in Jaipur district of Rajasthan	
62	Impact of climate change on crop production & food security	Praveen Mishra
63	Measures to overcome the effect of Covid-19 in agriculture	Anjali Verma
64	Invasion success and management strategies for Vespula wasps	Vikram
65	Recent advances of nitrogen management in rice	Milon Jyoti Konwar
66	Covid-19 impacts on agriculture, food security and mitigation	Kuldeep Sharma
	measures	_
67	Resource management through foliar feeding for increasing the	Pooja A. P.
	pulse production – A review	
68	Covid-19 probable impacts on post harvest management:	Jyotsna Setty
	agriculture	
69	Covid-19 impact: Rise of reforms in Indian agriculture for	Akshita Maheshwari
	sustainability	
70	Soil acidity tolerance in crop plants	Bapsila Loitongbam
71	Impact of Covid-19 on agriculture and livelihood security	Renu Gangwar
72	Impact of covid-19 on agricultural sector and socio economic	Sudhir Singh Jamwal
7.0	conditions of the farming community of district Poonch (J&K)	T.''1 C
73	Productivity and profitability of major rainfed rabi crops as affected	Vikas Gupta
71	by traditional and mechanized planting Manga fruit an agricultural commodity in northern India cumply	Dhavy Cananda
74	Mango fruit an agricultural commodity in northern India supply chain merchandise	Dhruv Sanandan Bhardwaj
75	Efficient management of sugarcane based intercropping practices	Pallavi Yadav
13	for crop diversification, sustainable productivity, improving soil	i aliavi I auav
	health and environmental quality	
76	Cadmium tolerant PGPR as agricultural diversifier: an innovative	Ananya Roy
, 0	strategy for maintaining soil's health and environmental	Chowdhury
	sustainability.	· · J
77	Aftermath of Covid-19 pandemic on Indian agriculture:	Tannishtha Bardhan
-	unprecedented challenges and its mitigating strategies	
78	Rural environmental planning an approach to environmental	Katiki Srikar
	sustainability	
79	Covid-19 impacts on agriculture	Manisha Kumari
80	Impact of polyethylene mulch on growth and yield of tomato	Viveka Nand Singh
	(Solanum lycopersicum 1.) in sub tropical condition	
81	Roof top gardening: viable option for nutritional security in urban	Veenika Singh
	areas	
82	Thermal response of potato under different sowing dates and	G. N. Gurjar

organic mulches in north east India 83 Mineralization pattern of organic mulches in potato under valley	
	G. N. Gurjar
lands of north east India	G. M. Guljui
84 Integrated farming systems: an approach for livelihood security of	f Sushant
small and marginal farmers	Sushant
85 Studies on variability, heritability and genetic advance of brinjal	Ch. Durga Hemanth
(Solanum melongena L.) for different yield attributing characters	
86 Strategies to up-scaling fodder production to sustain livestock	Sandeep Kumar
demand: a need of hours	Sandeep Kumar
87 Rearing performance and cocoon characters of muga silk worm of	n Vikram Kumar
primary food plants in different crop	Vikiaiii Kuillai
	Aniu Vodov and
88 Impact of Covid-19 on Indian agriculture	Anju Yadav and Shailza
90 Covid 10 imports on agriculture notice responses and livelihood	
89 Covid-19 impacts on agriculture, policy responses and livelihood	Mayank
security	M:41.11- W
90 Deciphering genetic inheritance and interallelic interactions for	Mithlesh Kumar
grain micronutrients concentration, yield and its component traits	
by generation mean analysis in pearl millet [Pennisetum glaucum	
(L.) R. Br.]	D 11 D 1
91 Covid 19 impact on agriculture	Rukhsana Rahman
92 Evaluation of genotypes and non-conventional chemicals against	R S Chauhan
sheath rot of rice caused by Sarocladium oryzae (sawada) Gams	
and Hawksworth in Haryana	
93 Impact of Covid-19 on agriculture and it reconstruction with	Arindam Deb
special reference to north-east India	
94 Major constraints in mango production and productivity in some	Meenakshi Malik
villages of Lucknow district, Uttar Pradesh	
95 Strengthening linkage between researchers and farming communi	ity Meenakshi Malik
through various web based and android applications in Indian	
agriculture	
96 Impact of growing environment on phenological development,	Karan Chhabra
growth and yield of Barley (Hordeum vulgare) cultivars under	
semi-arid regions of Haryana	
97 Long term effect of fertilizer and herbicides on soil properties and	
productivity of rice-rice system in rainfed lowland ecosystem und	ler
subtropical region of eastern Himalayas, India	
98 Screening of traditional rice cultivars due to rice root-knot	Priyanka Gogoi
nematode Meloidogyne graminicola	
99 Resource management and sustainability through organic recyclin	ng Reshma Das
in homestead agroforestry systems	
100 Studies on the collection and evaluation of bael cultivars	Satpal Singh
101 Leakage compositional changes accompanying to exposure of sor	me Farouk M. Gadallah
mango cultivars to low temperature under field conditions	
102 Conversation of point source field dipper method to line source	Shubham Ojha
field dipper method for in-situ measurement of unsaturated	
hydraulic conductivity	
103 Integrated farming systems for ensuring food, nutritional and livelihood	d Sanjay Swami
security of tribal farmers in north-eastern hill region of India	
104 Frontier technological management of intensive rice-wheat system	ms Akbar Hossain
of south-Asia for food and environmental security	
	D1 ' 01 4
Effect of weed management practices on yield, economics and weed dynamics of spring maize at Dhading Besi, Nepal	Bhimsen Shrestha

September 12, 2020 (11:30 – 12:00) POSTER SESSION-III Biodiversity Conservation, Resource Management and Ecological Restoration for Sustainable Development Effects of herbicides on soil microbial count under mungbean Kuldeep Singh cultivation An overview entomopathogenic fungus biological control of locust Rajendra Kumar Studies on the collection and evaluation of bael cultivars Ankit Gavri Climate change: impact on horticultural crops 4 Dinesh Sah Climate transform variation strategies for resource management 5 Gyanaranjan Sahoo Pollution status and conservation of Manomictic lake of Kashmir Jahangeer Mohd Reshi 6 Himalaya, India Impact of climate change on weed menace Devrani Gupta Effect of jute caddies on physico-chemical properties of soil under Sagnika Bhattacharyya 8 chilli production Brown manuring for effective weed management and sustainable 9 Thoudam Anupama vield in rice Devi Sustainable farming and its future needs Mukesh Kumar 10 Impact of climatic conditions on horticultural crop production Yogeshwari Sahu 11 Sustainable agriculture technologies: approaching natural resource 12 Leela Kaur management 13 Studies on cytology, phenology and breeding system of Viola Geeta Sharma Pilosa blume: a medicinally important herb Indigenous technical knowledge (ITK) – a means to climate smart Shashank Sharma 14 agriculture (CSA) Role of biodiversity conservation to natural environment and 15 Patel Tirthkumar Dasharathbhai Genetic variability of morphological traits among Indian mustard Khushboo Chandra 16 (Brassica juncea L. Czern&Coss) genotypes under non- irrigated and irrigated condition Role of resistant gene in the management of root-knot nematodes 17 Sujata *Trichoderma* potential biocontrol agent for management of plant Ritul Saharan 18 parasitic nematodes 19 Performance evaluation of local banana cultivars of southern kerala Dhanu Unnikrishnan under coconut 20 Biodiversity: need of the current situation for sustainable crop Seema production 21 Role of biodiversity conservation to natural environment and food Patel Pinalben Bharatbhai Impacts of climate change on plant growth, biodiversity and 22 Manjeet Singh potential adaptation measures Role of plant genetic diversity in sustainable agriculture 23 Sandeep Kumar Bangarwa 24 Untapped therapeutic uses of medicinal orchids Sayooi S Assessment of drought tolerant *Pseudomonas* sp. on Zn and Fe Amir Khan 25 biofortification and drought tolerance conferring efficacy on wheat 26 Impacts of climate change on plant growth, biodiversity and Gourav potential adaption measures Impact assessment of zooplankton diversity and pollution status of Garima Tomar 27 river Alaknanda, Uttarakhand Molecular markers approaches and role of bioinformatics in 28 Ravi Kumawat assessing diversity of germplasm resources Role of microbes in bioremediation of polluted environment 29 Jaison M. Diversity studies in Himalayan ginger (Zingiber officinalerosc.) 30 Ankila Salathia

	using phenotypic and molecular markers	
31	Biodiversity and conservation of Indian goat genetic resources for sustainable development - an overview	Balbir Singh Khadda
32	Role of coffee on biodiversity conservation, restoration of	Atiqur Rahman Bora
	ecological balance & sustainable development in agency areas of Andhra Pradesh	
33	Rhizosphere - An unexplored vista for sustainable agriculture	Arunima Babu C. S.
34	Diversity of insect fauna associated with cowpea [Vigna	Gaurang Chhangani
	unguiculata (L.) Walp.] in southern Rajasthan	
35	Rhizosphere mediated nutrient management using phosphate solubilising rhizobacteria in Inceptisols of Jammu, J&K	Renu Gupta
36	Maintaining the soil health by soil biodiversity conservation: an ecological approach towards the sustainable crop production	Kishor Kumar Sahu
37	Resource conservation management for sustainable development	Rakesh Kumar
38	Effect of plantation on soil carbon stock and heavy metals in mined out forest area of Talcher, Odisha	Shraddha Mohanty
39	Dynamics of microbial population in sodic soil as influenced by enriched municipal solid waste compost and other amendments	Mamta Prajapati
40	Phosphate solubilizing microorganisms (PSMS): A promising approach as bio-fertilizers	P.K. Rai
41	Plant growth promoting rhizobacteria (PGPR) for sustainable agriculture	P.K. Rai
42	Role of tribals in conservation of biodiversity in Pir Panchal ranges of Rajouri & Poonch districts of Jammu & Kashmir, India	Arvind Kumar Ishar
43	Exploring biodiversity of foothill Himalyas for production and anticancer efficiency of l-Asparaginase	Sweeta Manhas
44	Improving the farm biodiversity and sustainability through agroforestry	Ashish Kumar
45	Kitchen and garden waste management: using microbial inoculants for enhancing crop yield in Haryana	Rahul Choudhary
46	Bio fertilizers: a promising tool for sustainable farming	Geeta Kumari
47	Soil microbes in the service of humanity	Mousumi Malo
48	Harnessing productivity potential and rehabilitation of degraded sodic lands through Jatropha based intercropping systems	Y.P. Singh
49	Interplay between forest dependency, ecosystem services and biodiversity conservation in Kalsa-Gola sub-watershed, Nainital Uttarakhand	Harish Bahadur Chand
50	Efficacy of various insecticides against the major insect pests of summer squash (<i>Cucurbita pepo</i>) in Dhading, Nepal	Sapana Parajuli

	September 12, 2020 (12:30 – 13:30) concurrent		
	POSTER SESSION- IV		
Agri	Agriculture diversification, nutrient management, soil health and options for environmental		
	sustainability		
1	Soil health management through enrichment of beneficial microbes	Jaimin	
		Rameshchandra	
		Pandya	
2	Effect of foliar application of nutrients and growth regulator on	Satpal Baloda	
	fruit cracking and yield of Pomegranate Cv. Bhagwa		
3	Sulphur desorption with different physico-chemical properties of	Ajay Sharma	
	cultivated soils of Himachal Pradesh, India		
4	Role of micronutrient for crop production and future challenges	Arvind Kumar Mishra	
5	Optimization of NPK fertilizer doses through STCR target yield	Vimlesh Kumar	
	approach for oat (Avena sativa L.) grown in inceptisols of Uttar		
	Pradesh		

6	Manganese transformation and availability in soils under different wheat based cropping systems in north-western India	Shreyansh Mittal
7	Conservation agriculture for soil health and environmental sustainability	Shivani Ranjan
8	Impact of residual crop establishment methods and organic manures under zero tillage pea cultivation technique after harvest of black aromatic rice	Yumnam Sanatombi Devi
9	Integrated nutrient management for agricultural production and environmental sustainability	Sumit Sow
10	Spatial distribution of available micronutrient status under different land use systems of district Doda, J&K	Tajamul Aziz Alaie
11	Effect of micronutrients on growth, yield and economics of linseed under limited irrigation	Anchal Singh
12	Release pattern of boron as influenced by applied calcium and boron in acidic soils under different soil orders	Ajin S Anil
13	Synergistic effect of vesicular arbuscular mycorrhiza (VAM) with different amendments on soil pH and phosphatase activity	Aswitha K
14	Bio-fertilizers in fruit crops for soil health and fruit production	Shyam Ji Mishra
15	Development of multifunctional microbial consortia for sustaining soil health and improving nutrient use efficiency in high mountain Himalayan agro-ecosystem	Basharat Hamid
16	Effect of sugar industry solid waste on soil biological properties	Prabhavathi N
17	Effect of phosphorus and boron fertilization on yield of black gram and their temporal availability in acid Inceptisol	Muddana Sri Sai Charan Satya
18	Response of plant nutrients on productivity, economics and nutrient uptake of maize (<i>Zea mays</i> L.) - chickpea (<i>Cicer arietinum</i>) cropping system	Girishbhai Jethalal Patel
19	Effect of biochar in improving the soil health for environmental sustainability	Soumya Pattnaik
20	Influence of lime and organic manures on growth and yield performance of baby corn (<i>Zea mays</i> L.) under rainfed condition	Kalyan Pathak
21	Nutrient dynamics as influenced by organic and inorganic inputs in rice grown in Inceptisols	Divyansh Verma
22	Comparative evaluation of soil acidity in organic and conventional system of tea cultivation for long term sustainability	Samikhya Bhuyan
23	Effect of organic manures and phosphorus levels on growth, yield and economics of cowpea	G.D. Umadevi
24	Response of boron application on yield and economics of maize (Zea mays L.)	Amit Phonglosa
25	Effect of integration of organic and inorganic sources of nitrogen in rice crop on soil fertility status at harvest	Harish Shenoy
26	Crop and environmental sustainability through integrated nutrient management (INM)	Srikanth Bathula
27	Effect of vermicompost and FYM to enhance soil nutrient availability and nutrient uptake of rice	R. Kamaleshwaran
28	Role of applications of various organic sources in nutrient management on the basis of soil testing along with diversified agriculture to maintain ecological restoration and natural resources management	Pawan Kumar
29	Yield and soil fertility as effected by manures and fertilizers in rice	B.Vajantha
30	Impact of integrated nitrogen management on productivity of pearl millet under rainfed conditions of Jammu	Brinder Singh
31	Validation of soil test and yield target based balanced fertilizer prescription model for glory lily on an Alfisol	K M Sellamuthu

32	Agriculture diversification for food, nutrition, livelihood and environmental security	Sundar Anchra
33	Soil health and environment	Abhimanyu Yadav
34	Impact of soil health cards on soil fertility in India	Busi Naveen
35	Impact of FYM, zinc fertilization and different RSC waters on zinc fractions, response studies, productivity and profitability of barley in Typic Ustipsamment soils of III-a agroclimatic zone of Rajasthan	Prerna Dogra
36	Minimum soil disturbances for attaining good soil health	J. D. Saritha
37	Declination of available sulphur and micronutrient status in soils of district Allahabad, Uttar Pradesh	Ranvir Singh
38	Effect of long term application of fym and nitrogen on nutrients uptake by crop and weeds	Kavinder
39	Effect of irrigation and nitrogen management on distribution of nitrate nitrogen in soil profile, plant n uptake, n use efficiencies and yield of wheat crop under zero tilled condition.	Samaresh Sahoo
40	Role of microbes in bioremediation of polluted environment	Shiva Kumar Udayana
41	Nutrient indexing for forecasting emerging deficiencies of micro and secondary nutrients in sorghum-wheat based cropping system	Prashant Awadhut Sarap
42	Role of biochar for increasing soil fertility and productivity	Naresh Kumar Yadav
43	Nutrient management in pigeionpea based inter cropping system under rainfed condition	Atik Ahamad
44	Effect of organics on P fertilizer optimization in onion crop	Kalyani Kolanpaka
45	Nutrient indexing for forecasting emerging deficiencies of micro and secondary nutrients in sorghum-wheat based cropping system	Sandeep Sevakram Hadole
46	Influence of soil test crop response based manure and fertilizer application on nutrient uptake and yield of okra	V.R. Mageshen
47	Feasibility of customised fertilizers for nutrients availability in soil and yield of rice	Neeraj Kumar
48	Soil phosphorus fractions as influenced by crop residue retention and phosphorus fertilization under maize-wheat cropping system	ChiranjeevKumawat
49	Effect of long term fertilization on nutrient availability in irrigated Soybean-wheat cropping system	Manoj Parihar
50	Impact of Resource conservation techniques on chemical properties of soil in lower Shivaliks of Jammu	Meena Yadav
51	Nutrient indexing in soils of <i>Gloriosa superba</i> crop to forecast emerging nutrient disorders	P. Malathi
52	Crop Residues: A boom for effective soil nutrient management	Asisan Minz
53	Soil carbon sequestration - good for soil health, potential contribution to climate change mitigation	Manjushree B. K.
54	Integrated Plant Nutrient Management for agriculture	A.K. Mishra
55	Land uses affect the soil carbon stocks and metabolic quotient in Alfisol ecosystem altering soil health and environmental sustainability	Amarjeet Kumar
56	Soil Test Based Fertilizer recommendations for targeted yield of Soybean in Inceptisols of Telangana	T. Srijaya
57	Field validation of Soil Test Crop Response based fertilizer recommendations for targeted yields of onion in red soils	A. Madhavi
58	Effect of nitrogen and zinc management on growth, yield and economics of bread wheat (<i>Triticum aestivum</i>) varieties	Mohd. Arif
59	Chemical speciation and availability of macro and micro nutrients in different four blocks of Moradabad district of Uttar Pradesh	Ravindra Kumar
60	Effect of organic sources of nutrients in yield, soil health and	Popiha Bordoloi

	economics of vegetable crop for maintaining sustainable agriculture in RiBhoi district of Meghalaya, North-east India	
61	Enhancing Nitrogen use efficiency through different tools and	Shivani Kumari
	techniques	

	September 12, 2020 (15:00 – 16:30) concurrent		
POSTER SESSION- V			
Precision Agriculture and Climate Smart Approaches for Sustainable Management of			
Resources			
1	Feasibility of laser land levelling on yield of wheat and water	Naveen Kumar Singh	
	saving		
2	Climate smart approaches with precision agriculture for managing	Supriya Kumari	
	resources sustainably		
3	Improved Neuro-Wavelet model for flood forecast of Nagavali	Rambha Venkata	
	river basin	Ramana	
4	Long term annual and seasonal rainfall variability of Agartala	Hamtoiti Reang	
5	Precision agriculture and climate smart agriculture- towards a	Pritisha Patgiri	
	superior and sustainable future of the sector		
6	Soil moisture effect on potassium availability and fixation	Shailja Kumari	
7	2-D flood simulation using hydrodynamic model Fornagavali river	Karri Sai Raghava	
	basin	Naveen Reddy	
8	Land suitability assessment of Moridhal watershed in Dhemaji	Prem Kumar	
	district of Assam using remote sensing and GIS	Bharteey	
9	The role of conservation agriculture in mitigation to climate change	Payal Vyas	
10	Examination of Horton and Kostiakov infiltration model for	Libi Robin P.	
1.1	suitability on hilly slopes	G TP :	
11	Assessing the performance of machine learning techniques to map	Sagar Taneja	
10	soil properties from multispectral imageries	D '1	
12	Climate smart agriculture to mitigate the effect of climate change	Pramila	
13	on vegetables Flood simulation using Hechms and Hec ras for Vamsadhara river	T. Hari Krishna	
13	basin	1. Hari Krishna	
14	Challenges in adopting precision farming technologies	Kungumaselvan T.	
15	Influence of fertility management on soil carbon stocks under	P.V. Geetha Sireesha	
13	different agro climate zones	1. v. Geema Sheesha	
16	Effect of Urocystis agropyri and different inoculum levels of	Lochan Sharma	
10	Heterodera avenae on chlorophyll content and growth of wheat	Locitan Sharma	
17	Precision N management in rice-wheat cropping system for higher	Pratishruti Behera	
- /	productivity and sustainability		
18	Presicion Agriculture: A tool towards sustainable management of	Sarita	
	resources		
19	Mapping and characterization of Melang Watershed for	Prarthana Priyom	
	identification of priority areas of agriculture using GIS – A case	Hazarika	
	study from Assam		
20	Application of Nanoscience in rhizosphere studies and smart	Shubham Singh	
	delivery systems		
21	GIS-based hypsometric analysis of the Mand sub-basin of	Shreeya Baghel	
	Mahanadi river basin, Chhattisgarh, India		
22	1. Precision Farming - A new revolution	Theetla Tejaswini	
	2. Importance of Nutrient Management		
22	3. Integrated Nutrient Management- A novel approach	D ' D '	
23	Origin and Mineralogy of Nano Clays of Indian Vertisols and their	Ranjan Paul	
2.4	implications in selected soil properties	D!1-!::: C1	
24	Innovations for climate resilience in rainfed conditions	Ravikiran Shantaram	
	in village Warkhed, District Akola of Maharashtra State	Mali	

		1
25	Soil Resource Mapping and Crop Suitability Assessment by using	Rameshwar Singh
	Geo-spatial technologies in South-Eastern Rajasthan, India	
26	Precision agriculture for sustainable management of resources	Gauri Mohan
27	Swat primarily based assessment and prediction of global climate	Bhagyashri Ramesh
	change and its impact	Jalgaonkar
28	Design and fabrication of single slope solar still	Snehal Nanarao
		Dongardive
29	Prediction and comparison of water table heights in response to left	Gyan Singh
	and right skewed peak recharge rates within raised bed of	
	integrated farming system model	
30	Climate resilient agronomic strategy for rice based cropping system	Suborna Roy
	of Bihar	Choudhury
31	Sustainability in fruit orchard ecosystem-a way for assessing	Tarun Adak
	precision management	
32	Climate smart breeding – need or greed?	Shanmugam A.
33	Soil organic carbon stocks under various temperature and moisture	Priyanka Kumari
	regimes as an indicator of climate change	
34	Daily river flow forecasting using wavelet ANN hybrid models	Manish Kumar
35	Effect of sediment particle orientation on incipient motion	Anuradha Kumari
36	Reservoir water spread area estimation using different image	Pydi Srinivasa Rao
	classification techniques	
37	Precision agriculture and climate smart approaches for sustainable	Yogita
	management of resources	
38	Precision agriculture and climate smart approaches for sustainable	Neha
	management of resources	
39	Enterprise selection in farming system for livelihood security under	Lalit Kumar Verma
	changing climate scenario	
40	River basin modeling using SWAT model	Ayushi Trivedi
41	Application of nanoscience in Rhizosphere studies and smart	Shubham Singh
	delivery systems	
42	Plant Biosecurity for Sustainable Food Security	Duddukur Rajasekhar
43	Impact of different herbicides on growth and yield of direct seeded	Manoj K. Singh
	rice (Oryza sativa L.)	
44	Precision agriculture and climate smart approaches for sustainable	Astha Pandey
	management of resources	
45	Effect of planting dates and sources of nitrogen on growth and	Binaya Baral
	yield of cauliflower (var-snow mystic) at Rampur, Chitwan, Nepal	