



National Web- Conference on Technological Approaches for Resource Conservation and Management for Environmental Sustainability (TARCMES)

August 16 & 17, 2020

Organized by: Academy of Natural Resource Conservation and Management, Lucknow (UP)

www.anrcm.org

Programme

August 16, 2020

10.00-10.05	Welcome Address by Dr. Atul K. Singh , President, ANRCM
10.05-10.10	About ANRCM by Dr. Sanjay Arora , Secretary
10.10-10.15	About National Web Conference by Dr. Vikas Sharma , Organizing Secretary
10.15-10.30	Inauguration of Web-Conference and Inaugural Address by Dr. G. B. Singh , Chief Patron, ANRCM; Ex-DDG (NRM), ICAR, New Delhi & Ex-VC, JNKVV, Jabalpur
PLENARY SESSION	
	Chairman: Dr. D.K. Sharma, Ex-Director, ICAR-CSSRI, Karnal, Haryana Co-chairman: Dr. K. Rajan, ICAR-IISWC, RC, Udhagamandalam Convener: Dr. Ratna Sahay, KVK Unnao
10.30-10.50	Keynote Speaker Dr. R.P. Singh , VC, SKRAU Bikaner, Rajasthan
10.50-11.10	Keynote Speaker Dr. Ch. Srinivasa Rao , Director ICAR-NAARM, Hyderabad Topic: Resource Conservation Technologies for Sustainability of Agriculture and Environment in India
11.10-11.30	Plenary Speaker Dr. B. Gangwar , Ex-Director, ICAR-IIFSR, Modipuram, U.P. Topic: System based resource management for ensuring livelihood security and environment sustainability
11.30-11.50	Plenary Speaker Dr. G. Gururaja Rao , Head/Joint Director (Retd), CSSRI, RRS, Bharuch, Gujarat Topic: Coastal saline soils of Gujarat – Problems, reclamative measures and management
11.50-12.10	Keynote Speaker Dr. S.S. Singh , Director Extension, RLBCAU, Jhansi, U.P. Topic: Climate change and it's mitigation practices in Eastern India
12.10-12.30	Keynote Speaker Dr. S.K. Sharma , Zonal Director Research, MPUAT, Udaipur, Rajasthan Topic: Organic farming for resource optimization – The way forward
12.30-12.35	Vote of thanks by Dr. N.K. Pareek , Organizing Secretary

TECHNICAL SESSION- I

Environmental Conservation and restoration of ecological balance

Chairman: Dr. Y. P. Singh, ICAR-CSSRI, RRS, Lucknow

Co-chairman: Dr. Sanjay Swami, CAU, Barapani

Conveners: Dr. A.S. Yadav, UPCAR, Lucknow; Dr. Tarun Adak, ICAR-CISH, Lucknow

12.35-13.30	Oral Presentations		
S. No.	Oral	Authors	Presenting Author
1.	Effect of forest land covers on soil organic carbon stocks in southern hilly region	K. Rajan, R. Ragupathy and P. Raja	K. Rajan
2.	Efficacy of Kafal (<i>Myrica esculanta</i>) leaves extract as bioadsorbent in reducing copper ion concentration from aqueous solution	Kusumlata Goswami and R. N. Ram	Kusumlata Goswami
3.	Farming system approach for food security and sustained rural economy	Sundar Anchra, M.K.Kaushik, Sonal and Manish Bera	Sundar Anchra
4.	Mitigating leaching loss of calcium through foliar nutrition	Giffy Thomas, Adarsh S. and Vandana Venugopal	Giffy Thomas
5.	Nesidiocorus an emerging pests of sesame	V. S. Acharya and Keshav Mehra	V. S.Acharya

6.	Solar based automatic water pumping system for agriculture purpose in upper hilly region of India	Monika Gairola and Shekhar Singh	Monika Gairola
7.	Bio-engineering measures for conservation of soil and water resources in North Western Himalayas	Deepak Singh	Deepak Singh
8.	Remote Sensing and GIS based quantitative morphometric analysis of thirteen sub-watersheds of Mand catchment Chhattisgarh using SRTM-DEM	Shreeya Baghel and Aekesh Kumar	Shreeya Baghel

13.30-14.00	Poster Presentations	Convener: Mr. Navneet Sharma
14.00-14.30	Lunch Break	

TECHNICAL SESSION- II			
Technological Options for Soil and Water Resource conservation and management			
Chairman: Dr. T.K. Srivastava, ICAR-IISR, Lucknow Co-chairman: Dr. Anil Sharma, ICAR-CPRI, RC, Jalandhar Conveners: Dr. Mukesh Kumar, IGNOU, New Delhi; Dr. Shyamji Mishra, CSSRI, RRS, Lucknow			
14.30-14.45	Lead Speaker Dr. D.M. Denis, SHUATS, Prayagraj, U.P.	Using Remote Sensing and GIS for managing soil and water resources towards food and livelihood security	
14.45-15.00	Lead Speaker Dr. M.S. Hadda, PAU, Ludhiana, Punjab	Land uses in relation to soil physical characteristics and sustainability under semiarid irrigated conditions	
15.00-17.00	Oral Presentations		
S. No.	Oral	Authors	Presenting Author
1.	Assessment of ground water quality for irrigation purpose in Bathinda district (Punjab, India)	Debjani Kundu and Anil Sood	Debjani Kundu
2.	Pit method an option for vegetable production in water logged sodic soils	Chhedi Lal Verma, Y.P. Singh, S.K. Jha, A.K. Singh, T. Damodaran, Sanjay Arora, V.K. Mishra and Rohit P. Ojha	Chhedi Lal Verma
3.	Deficit Irrigation : For reducing agricultural water use	Dhanu Unnikrishnan and L. Girija devi	Dhanu Unnikrishnan
4.	Development and performance evaluation of a human powered micro sprinkler system through a common Gym cycle utilizing the harvested surface water	JitendraSinha, BhaveshTiwari, BrijeshTirkey, Rifat Khan and NishaVerma	Jitendra Sinha
5.	Drip irrigation as one of the innovative techniques to conserve water and increase the productivity in sweet cherry.	Rehana Javid and W. M. Wani	Rehana Javid
6.	Effect of methods of land preparation on growth and yield of transplanted rice (<i>Oryza sativa</i>) in canal commands of North western plateau agro-climatic zone of Odisha - An on farm study	S. C. Senapati, J.K.Pati, A.P.Sahu, J. M. L. Gulati and S.K.Behera	S. C. Senapati
7.	GIS based spatial distribution and evaluation of water quality for irrigation purpose in Haridwar district	Sonali Kumara, Shekhar Singh and Vinod Kumar	Sonali Kumara
8.	Inherent fertility of Ratte Khera farm of Punjab Agricultural University, Punjab, India	Rajan Bhatt, Parmjit Singh and Sanjay Arora	Rajan Bhatt
9.	Mid Infrared Spectroscopy: A new technological and alternate option to conventional lab analysis for soil quality assessment	Debabrata Nath, Ranjan Laik and Santosh Kumar Singh	Debabrata Nath
10.	MOOCs on Water harvesting conservation and utilization	Mukesh Kumar and Vijayakumar, P. and Rohitashw Kumar	Mukesh Kumar
11.	Open dug well for increasing cropped area in hard rock area of Odisha	Ranu Rani Sethi, Madhumita Das, B. Panda and S. K. Ambast	Ranu Rani Sethi
12.	Options for improving crop water productivity in hot arid region	V.S. Rathore, N.S. Nathawat and N.D. Yadava	V.S. Rathore

13.	Performance of high yielding variety of sesame grow on raised bed in cluster front line demonstration under Bundelkhand condition	Shyam Singh and Diksha Patel	Shyam Singh
14.	Potential of different media based and floricultural crops grown vertical subsurface flow-Constructed wetland system for water stress mitigation	Paritosh Kumar, Harisha C.B., Neeraj Kumar, Kamlesh Kumar Meena, Ganesh Masal and Himanshu Pathak	Paritosh Kumar
15.	Studies on the effect of water regimes and organics on water saving, soil fertility and yield of rice (<i>Oryza sativa</i> L.)	Maheshwaran K.	Maheshwaran K.
16.	Subsurface drip irrigation for efficient fertilizer and water use in wheat crop- A case study	Ayushi Jha and Mukesh Siag	Ayushi Jha
17.	Impact of land use capability classes and present land use on soil properties and erodibility behaviour of Sheetalpur watershed of Hamirpur district of Bundelkhand region of Uttar Pradesh	Kaushal Kumar and Munish Kumar	Kaushal Kumar
18.	Development and Performance Assessment of Soil Moisture Sensors in Sandy loam and Laterite Soil	Navneet Sharma, Atul Kumar Singh and Abdul Hakkim, V.M.	Navneet Sharma
19.	Effect of different soil and water conservation practices on water quality in the adopted village ponds of north - western Himalayas	Vivak M. Arya, Vikas Sharma, Ajay Thakur and P.K. Rai	Vivak M. Arya
20.	Performance of Mole Drainage and its Economic Feasibility for Drainage of Irrigated Vertisols	Shrimant D. Rathod and Dilip K. Kathmale	Shrimant D. Rathod
21.			

17.00-17.30	Poster Presentations	Convener: Mr. Rohit P. Ojha
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August 17, 2020

10.00-10.05	Welcome by Dr. Vikas Sharma , Organizing Secretary	
TECHNICAL SESSION- III		
Agricultural diversification and technological interventions for livelihood security		
Chairman: Dr. A.K. Gupta, SKNAU, Jobner		
Co-chairman: Dr. Pradeep K. Rai, SKUAST, Jammu		
Conveners: Dr. Manoj K. Singh, KVK Kausambi; Dr. Awanindra K. Tiwari, KVK Raebareli		
10.05-10.20	Lead Speaker Dr. Y.P. Singh , ICAR-CSSRI, RRS, Lucknow	On-farm composting of municipal solid waste for restoration of degraded sodic lands and sustaining crop yield
10.20-11.35	Oral Presentations	

Oral	Authors (In sequence)	Presenting Author	
1.	Approaches for improving elevated CO ₂ induced zinc reduction in rice	Ramireddy Bhavana, R. V. Manju, M.M. Viji, Beena R. and Mini C.	Ramireddy Bhavana
2.	Commercialization and diversification of Indian agriculture	Yogeshwari Sahu, Payal Vyas and Shashank Sharma	Yogeshwari Sahu
3.	Elite genotype (CA-4) of <i>Cassia auriculata</i> suitable for crop diversification, resource conservation through non-arable land cultivation to ensure livelihood benefits in semi-arid regions of Rajasthan	S.Kala, H.R.Meena, A.K.Singh, I.Rashmi and R.K.Singh	S.Kala
4.	Evaluation of Blackgram varieties under rainfed conditions of Chamarajanagar District, Karnataka	Sunil C M, Yogesh G S, Chandrakala Hanagi, Mohankumar A B, Abhishek P. S. and Rajath H. P.	Sunil C M
5.	Integrated Farming Systems –Action tool for livelihood security in tribal areas	Tejeswara Rao K., Suryakala K, Soujanya P., and Rama Rao G	Tejeswara Rao K
6.	Potentials of growing underutilized fruit crops in Kashmir for sustainability and nutritional security.	Rifat Bhat, Sharbat Hussain, Muzaffara Akhter, Umer Iqbal and M.M.Mir	Rifat Bhat
7.	Rebuilding Food and Soil Nutritional Security through Pulse Cultivation	Adarsh S., Giffy Thomas, Jacob John and Ameena M.	Adarsh S.

8.	Yield of different varieties of sugarcane	Trilok Nath Rai, K. N. Rai, Sadhna and S.K. Rai	Trilok Nath Rai
9.	Murraya Koengii possesses in vitro cytotoxic potential against lung cancer cells	Vikas Sharma, Shilpa Raina and Shashank K. Singh	Vikas Sharma
11.35-12.00	Poster Presentations		Convener: Ms. Divya Sahni

TECHNICAL SESSION- IV			
Soil health, organic farming and nutrient management for sustainable productivity			
<p>Chairman: Dr. V.K. Mishra, ICAR-CSSRI, RRS, Lucknow Co-chairman: Dr. Sandeep Sehgal, SKUAST-Jammu Conveners: Dr. Shefali Srivastava, Environment Specialist NGP, Lucknow; Dr. Manish Kumar, Bihar</p>			

12.00-12.15	Lead Speaker Dr. Abdul Hakkim V.M., KAU, Kerala	Precision farming for natural resources conservation and management
12.15-13.00	Oral Presentations	

S. No.	Oral	Authors	Presenting Author
1.	Dissemination of microbial technologies for empowering rural weaker section	Astha Tiwari, Renu, D.P. Singh, Garima Rai, Rahul Kumar Gupta, Rajan Singh, Sudheer Kumar Yadav, Ashish Kumar Vishwakarma, Pooja Yadav, Vivek Singh, Khan Mohd. Sarim & Anil K Saxena	Astha Tiwari
2.	Effect of zinc and boron on growth, yield, bulb quality and nutrient uptake of Onion (<i>Allium cepa</i> L.) cv Bhima super under Mid-Central table land zone of Odisha, India	Meenakhi Prusty, Nityyamanjari Mishra, Sunil Samal and Dibya Sundar Kar	Meenakhi Prusty
3.	Impact of frontline demonstrations on foliar application of 'Sampoorna KAU multi mix' in vegetable cowpea in the agroecological zone midland laterite of Kollam district for sustainable yield and income.	Poornima Yadav P. I., Lekha .M, Tulasi.V, Saparia Sathyan	Poornima Yadav P. I
4.	Foliar application of Sampoorna KAU Multi mix to address micronutrient stress	Thulasi, V., Moossa, P.P., Sureshkumar, P., Narayanankutty, M.C. and Purnima Yadav	Thulasi, V.
5.	Impact of long term fertilization on soil properties and Soybean productivity in a vertisol	Jalendra Bairwa, B.S. Dwivedi, A.K. Dwivedi and R.K. Thakur	Jalendra Bairwa
6.	Influence of organic amendments on soil properties and C sequestration potential of soil	Samanyita Mohanty	Samanyita Mohanty
7.	Influence of organic manures and bio fertilizers with level of nitrogen and phosphorus on soyabean	C. K. Desai, G. J. Patel and K. N. Rana	C. K. Desai
8.	Integrated Nutrient Management vs organic farming –lessons from permanent manurial trials	Thulasi, V., Summayya S, Moossa P P, Sandeep S and Muneshwar Singh	Thulasi V.
9.	Interaction effect of VAM with different amendments on increasing phosphorus uptake	K. Aswitha, T. Naveenkumar, V.R. Mageshen and M. Dhanalakshmi	K. Aswitha
10.	Nutrient release pattern of different fertilizer doses and IPNS	Mahesan V. R., Bagavathi Ammal U. and Pradip Dey.	Bagavathi Ammal
11.	Organic farming in horticultural crops for sustainable productivity	Prashant Joshi	Prashant Joshi
12.	Plant growth promoting activity of rhizobacteria	Upma Dutta, Tanika Mahajan and Arashdeep Kour	Upma Dutta
13.	Role of soil nutrients and germplasms conservation: need for soil nutrient indexing for better resource use efficiency	Tarun Adak and Kailash Kumar	Tarun Adak
14.	Smoke derived compound for plant growth and soil Health	Dhanalakshmi M, Rajalakshmi P. and Vinothini R. and Akila G.	Dhanalakshmi M
15.	Management of organic manures and bio-agents for	Om Prakash, Brahm Prakash and Pallavi	Om Prakash

organic cultivation of sugarcane	Yadav
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13.00-13.30	Poster Presentations	Convener: Mr. Ravindra K. Gupta
13.30-14.00	Lunch Break	

TECHNICAL SESSION- V		
Climate smart approaches for sustainable management of natural resources		
Chairman: Dr. P.R. Bhatnagar, ICAR-CSSRI, Karnal Co-chair: Dr. Ranu Rani, ICAR-IISWC, Bhubaneswar Conveners: Dr. B.S. Dwivedi, JNKVV, Jabalpur; Dr. Deepak Singh , ICAR-IISWC, Dehradun		
14.00-14.15	Lead Speaker Dr. A. Upadhyaya, ICAR-RCER, Patna, Bihar	Prominent water management technologies for agricultural production
14.15-15.00	Oral Presentations	

S. No.	Oral	Authors	Presenting Author
1.	Climate Smart Approaches for Soil-Water Conservation and Management in the Temperate Mountainous Ecosystem of part of Western Ghats, India	P.Raja, K.Kannan, U.Surendran, K.Rajan and P.Mahesh	P. Raja
2.	Effect of different sowing environment and varieties on production potential of maize under central plain zone of U.P.	Naushad Khan, Ajay Kumar, S.N. Pandey, C.B. Singh and Shubham Singh	Naushad Khan
3.	Effect of mole drainage system on growth characters and Yield of Soybean in waterlogged Vertisols in Malwa region of Madhya Pradesh	S.S. Dhakad, K.V. Ramana Rao, G. R. Ambawatia and Kayam Singh	S.S. Dhakad
4.	Effect of pink pigmented facultative methylotrophs (PPFM) on yield attributes and yield of rice (<i>Oryza sativa</i> L.)	Aswathy J C., Shalini Pillai, P., Jacob John and K. S. Meenakumari	Aswathy J. C.
5.	Exploration of native lignocellulolytic actinobacteria and their evaluation as biodegrader of water hyacinth biomass	Patel M. H. and Patel H. K.	Patel H. K.
6.	Happy seeder technology for residue management in rice-wheat rotation	Priyanka Suryavansh, Munish Sharma, Harmeet Kaur and Yashwant Singh	Priyanka Suryavanshi
7.	Impact of climate resilient farming practices on food security during lockdown by COVID-19 pandemic in Odisha	Ajay Kumar Mishra and Sheetal Sharma	Ajay Kumar Mishra
8.	Impact of direct seeded rice on economics of paddy crop in Raebareli district	R. K. Kanojia	R. K. Kanojia
9.	Production of agri-biochar from pyrolysis of waste organic material and its utilization for acid soil management	Sanjay-Swami	Sanjay-Swami
10.	Technological advancements in water and heat stress tolerance related traits measurement in wheat	Surinder Paul, Joginder Singh Duhan and Ratan Tiwari	Surinder Paul
11.	Evaluation of irrigation strategies using Water Evaluation and Planning Model (WEAP)	Jyoti P. Patil , V. C. Goyal and T. Thomas	Jyoti P. Patil

15.00-15.30	Poster Presentations	Convener: Dr. Chandra Shekhar Singh

VALEDICTORY SESSION	
	Chief Guest: Dr. U.S. Gautam, Vice-Chancellor, Banda Agri. University, Banda
16:00-16:05	Welcome of Chief Guest by Dr. Atul K. Singh , President ANRCM & Chairman Org. Committee

16:05-16:10	Proceedings of the Web-conference by Dr. Vikas Sharma , Organizing Secretary
16.10-16.15	Report and Declaration of Awards by Dr. N.K. Pareek , Organizing Secretary
16.15-16.30	Address by Chief Guest Dr. U. S. Gautam , VC, BAU, Banda
16.30-16.35	Vote of Thanks by Dr. Sanjay Arora , Secretary, ANRCM & Convener
16.30-17.30	G.B. Meeting of ANRCM

Poster Sessions

Chairman: Dr. Anshuman Kohli

August 16, 2020

TECHNICAL SESSION- I

Environmental Conservation and restoration of ecological balance

13.30-14.00 August 16, 2020	Poster Presentations	Convener: Mr. Navneet Sharma	
1	Crop Intensification with Pulses in Coconut Garden For Safeguarding Food Security In The State Of Kerala	Pooja A. P.	Pooja A. P.
2	Determination of Quantum Recharge Requirement by Utilizing Spatial Data for Revival of Kanari River	Ayushi Trivedi and Manoj Kumar Awasthi	Ayushi Trivedi
3	Ecological response to river sedimentation: ANN based approach	Ashish Kumar and Vinod Kumar Tripathi	Ashish Kumar
4	Evaluation of cow based organics for non-insecticidal pest management in castor	G. V. Suneel Kumar and O. Sarada	G. V. Suneel Kumar
5	Impact of weed management practices on weed indices and yield of Bajra Napier hybrid in Kerala	Swathy A. H., Usha C. Thomas	SWATHY A.H
6	Intensity of soil use and organic fractions in montanous ecosystem	H. Sneha, K. Rajan, K. S Sujith, K. P. Aiswarya and P. Anith Robinson	Sneha. H
7	Soil Organic Carbon Fractions in Fresh Water Swamps of Southern hilly Region	P. Anith Robinson, K. Rajan, KP. Aiswarya, H. Sneha and KS. Sujith	Anith Robinson P
8	Weed management in Bt cotton (<i>Gossypium hirsutum</i>) influences the yield through sequential application of herbicides	Sreena K S and G. S. Yadahalli	Sreena K S
9	Evaluation of reproductive profiling of Amur carp with special reference to different types of feed	Mahima Tamta and R. N. Ram	Mahima Tamta
10	Effect of organic manures on the growth of wheat and soil enzymatic activity	Prerna Jetpariya and Sana A Kalyani	Sana A Kalyani

TECHNICAL SESSION- II

Technological Options for Soil and Water Resource conservation and management

17.00-17.30 August 16, 2020	Poster Presentations	Convener: Mr. Rohit P. Ojha	
1	Application of Modern Tools In Agricultural Water Management	Blessy V A, Shiv Shanker Chaudhari	Blessy V A
2	Assessment of Decadal Variability in Land use/Land cover using remote sensing and GIS	Sumit Kumar and V.K. Chandola	Sumit Kumar
3	Comparative evaluation of various NDVI models to estimate crop Co-efficient for Summer Sesame	Nishad P. Pachani and M. H. Fadadu	Nishad P. Pachani
4	Customized automated fertigation system for soilless media in protected cultivation	Kusum Pandey and K.G.Singh	Kusum Pandey
5	Dynamics of drip irrigation to enhance crop water productivity	Shiv Shanker Chaudhari and Blessy V A	Shiv Shanker Chaudhari
6	Effect of different mulches on growth, yield and quality of banana cv. Grand naine	Hanuman Nayak, M., Vijay Krishna, G. and Hameedunnisa Begum	G. Vijay Krishna
7	Effect of soil and foliar application of manganese on wheat cultivars and manganese transformation in soil	Shreyansh Mittal and Sat Pal Saini	Shreyansh Mittal
8	Estimation and validation of empirical models for soil wetting front under point source of surface drip irrigation	Dinesh Kumar Vishwakarma, Rohitashw Kumar	Dinesh Kumar Vishwakarma
9	Evaluation of impact of shifting sowing date of rice-wheat crops on groundwater behavior in Indo-Gangetic plain of north-west India	Vivekanand, Satyendra Kumar and Bhaskar Narjary, S K Kamra, AmeeshKhatkar, Suraj Goswami and Pavan Kumar Harode	Vivekanand

10	Fixed Bed Column Adsorption of Organic Pollutants Using CZnO Nano Based Adsorbent Coated Sand Filter Bed for Dairy Industrial Effluent Treatment	Dinesha, B. L., SharanagoudaHiregoudar., UdaykumarNidoni., Ramappa, K. T., Anilkumar Dandekar and Ravi, M. V	Dinesha B L
11	Performance of artificial recharge structures in enhancing groundwater quantity	Thiyagarajan, G., A. Raviraj and S. Panneerselvam	Thiyagarajan, G.
12	Productivity of lowland rainfed rice (<i>Oryza sativa</i>) as influenced by establishment and weed management	KevizhalhouKuotsu and Avanish Prakash Singh	KevizhalhouKuotsu
13	Role of GIS and RS in natural resource management	Vinothini R, Dhanalakshmi M, and Fahima fathima A	Vinothini R
14	Soil and water conservation techniques	Akshikabhawariya, Shankar Lal Sunda, Dr. N. K. Pareek	AkshikaBhawariya
15	Solar powered automated drip irrigation system along with wireless sensor network technology : A solution for soil moisture stress- A review	Golmei Langangmeilu and YengkhomLinthoingambi Devi	Golmei Langangmeilu
16	Spectrum of technological options of soil -water conservation measures for sustainable agriculture	Sartaj Ahmad Wani, Subhash Chand and Anil Sharma	Sartaj Ahmad Wani
17	Water productivity enhancement in upland rice (<i>Oryza sativa</i> L.)	Aparna R A, Jayakrishnakumar, V	Aparna R A
18	Water testing & Quality of irrigation water	Trilok Nath Rai, K. N. Rai , A.K. Rai, Anjali, Sadhna and S.K. Rai	Trilok Nath Rai
19	Zero energy drip system for sustainable crop production in North Western Himalayas	Deepak Singh	Deepak Singh
20	Evaluation of Irrigation strategies using Water Evaluation and Planning Model (WEAP)for a Watershed in Bundelkhand Region, India	Jyoti P Patil, V C Goyal and T Thomas	Jyoti P Patil
21	Use of extrapolated saturated front widths of line source field dripper method for more reliable estimate of unsaturated hydraulic conductivity function	Rohit Pratap Ojha, Cheedi Lal Verma, Derrick M. Denis and Sanjay Arora	Rohit Pratap Ojha
22	Scientific approach for conservation of soil and water resources and its managements	Jubuli Sahu, Sanjay Kumar Mandal and Shweta Kumari	Jubuli Sahu
23	Bioremediation of soil and water resources by mushrooms for conservation and management of environment	Julius Munna and Manish Kumar	Julius Munna/ Manish Kumar
24	Conversion of line source saturated front to square source saturated front for measurement of unsaturated hydraulic conductivity	Shubham Ojha, Chhedi Lal Verma, D.M. Denis and Rohit P. Ojha	Shubham Ojha
25	Identifying hydrological response units (HRUs) for the west Banas river basin of Rajasthan state	Jalgaonkar B. R., Mahesh Kothari, H. K. Mittal, P. K. Singh, H. K. Jain and N. L. Panwar	Jalgaonkar B. R.

August 17, 2020

TECHNICAL SESSION- III

Agricultural diversification and technological interventions for livelihood security

11.35-12.00 August 17, 2020		Poster Presentations Agricultural diversification and technological interventions for livelihood security	Convener: Ms. Divya Sahni
1	Agricultural Diversification fortifying livelihood	Gargi	Gargi
2	Agricultural diversification through processing and value addition for livelihood security of rural youth	Poonam Yadav, Ramesh Kumar and Jai Lal Yadav	Poonam Yadav
3	Agricultural Diversification: Way of Increasing Sustainability of Agricultural Production System	Shri Rakesh and Dr. N. K. Pareek	Shri Rakesh
4	Agronomic Interventions in Agri-Horti Systems under Rainfed Conditions	Meenakshi Gupta, Sarabdeep Kour and Vikas Gupta	Meenakshi Gupta
5	Autotilling effects of potato cultivation: saving of energy, time and cost of production for next crop	Sushrut Richa, Anand Kumar and Dr. Jitendra Bhaskar	Sushrut Richa
6	Beneficial Insects and Perception of Rural Kashmiri Farmers on Significance of Insect Pollinators	Naveena Nazim and Bilal Ahmad Bhat	Naveena NAZIM
7	Capturing diversity in integrated farming systems prevailing in marginal households through quantitative farming system typology	Anitrosalnnazent, Jacob D., Bindhu J. S., Brigit Joseph and Anith K. N.	Anitrosalnnazent
8	Crop Diversification Options to Manage Rice-Fallow and to Catalyse Farm Productivity and Profitability in Odisha	Anjali, V. Venkat Ramanan, Ajay Kumar Mishra and Sheetal Sharma	Anjali
9	Cropping intensity management in Kushinagar	Trilok Nath Rai, Ajay Ray, Anjali, S.S. Singh, R.P. Sahu, A.K. Dubey, A.K. Rai, K.N. Rai, S.K. Rai, Vikas Singh, Manimurugan, P. Devikar, M.L.Kushwaha, A.P. Singh, R.N.Prasad, Swati and J. Singh.	Trilok Nath Rai
10	Designing and Evaluation of Low-Cost GPS based Integrated Solar Hammering Drum	Sarita Mishra and Ajay Kumar Mishra	Sarita Mishra
11	Diversification for nutritional and livelihood security in homegardens of southern Kerala – A case study	Sheeba Rebecca Isaac, Bindu Podikunju and Arunjith P	Arunjith P
12	Diversification of rice wheat cropping system for sustainability and livelihood security	Sarita	Sarita
13	ECG studies on gastroenteritis and urinary tract diseases affected dogs	Moneesh Thakur, S.R. Upadhyay and Rajiv Singh	Moneesh Thakur
14	Effect of fertilizers on Turmeric (<i>Curcuma longa</i>) and Guava (<i>Psidium guajava</i>) yield under agri-silvi-horti system on partially improved sodic soil	S. K. Verma and O.P. Rao	S. K. Verma
15	Effect of various planting geometry on the performance of topfeeds with and without intercrop	Mubeena P, Usha C Thomas, Anita M.R.	Mubeena P
16	Estimation of the magnitude and nature of Heterosis in hybrid rice (<i>Oryza sativa</i> L.)	Nidhi Bhatt, M.K. Nautiyal and Ranjit Saroj	Nidhi Bhatt
17	Evaluation of anthocyanin stability during storage of color extracts from Marigold (<i>Tagetes erecta</i> L.)	Ranjeet K. Yadav and Mahesh Pal	Ranjeet K. Yadav
18	Evaluation of efficacy of different fungicides and bio-agents against root rot of cluster bean caused by <i>Macrophominaphaseolina</i>	Narender Singh, Manoj Kumar, R.S. Chauhan, J.L. Yadav and Rajpaul Yadav	Narender Singh
19	Farmers' Behaviour towards Adopting Conservation Agricultural Practices in India	Tannishtha Bardhan and Neelam bhardwaj	Tannishtha Bardhan
20	GUM: By-product of rice bran oil refining	Leena PreetiLakra, Hinachandrakar, Vedmani, Priyanka Netam	Leena PreetiLakra

21	Homestead: an approach for sustainable living	Namitha V V and Dr. K. Prathapan	Namitha V V
22	Integrated farming systems for sustainability and enhancement of rural livelihoods – A review	Jince Mary M. Joy and Jacob John	Jince Mary M. Joy
23	Isolation and identification of <i>Mycogoneperniciosa</i> , causing wet bubble disease in <i>Agaricusbisporus</i> cultivation in Jammu	Sardar Singh Kakraliya	Sardar Singh Kakraliya
24	Post-Harvest technology and value addition in Phalsa (<i>Grewia subinaequalis</i>)	Tribhuwan Singh Rajpurohit, Anupriya Sharma and Nitika Kumari	Tribhuwan Singh Rajpurohit
25	Protected Cultivation: Boon for Farmers of Kashmir to Improve Livelihood	Rishi Richa, Rohitashw Kumar, R.M. Shukla, Shakeel Bhat, Zeenat Farooq and Faizam	Rishi Richa
26	Rainfall trend analysis by Mann- Kendall test for Bhubaneswer, Odisha	Bhukya Srinivas, Dr.M.K.Tiwari	Bhukya Srinivas
27	Screening of Chilli Varieties against insect pests Infestation	Babita Bhatt and A.K. Karnatak	Babita Bhatt
28	Training needs Assessment of Castor growers of Palanpur taluka of Banaskantha District (Gujarat)	K.S.Patel and M.B.Gotatar	K.S.Patel
29	Farming System Approach for Food Security and Sustained Rural Economy	Sundar Anchra, M. K. Kaushik, Sonal and Manish Bera	Sundar Anchra
30	Farmers Perception about Organic Farming in Rampur district of Uttar Pradesh	Laxmi Kant and Navneet Sharma	Laxmi Kant

TECHNICAL SESSION- IV

Soil health, organic farming and nutrient management for sustainable productivity

13.00-13.30
August 17, 2020

Poster Presentations
Soil health, organic farming and nutrient management for sustainable productivity

Convener:
Mr. Ravindra K. Gupta

1	Biofertilizer - A key player in enhancing soil fertility and crop productivity	P.K. Rai, Vishal Gupta, Akash Sharma, G.K. Rai and Balbir Dhotra	P.K. Rai
2	Effect of different cropping systems and tillage practices on yield of Indian mustard under rainfed conditions of Jammu	Rajeev Bharat, Sunil Kumar Rai, Vivak M. Arya, A.P. Singh, Jai Kumar and Rahul Gupta	Rajeev Bharat
3	Effect of organic and inorganic sources on nutrient availability and soil physio-chemical properties of apple orchard soil.	Muzafar Mir, Ajay Gupta, S. S. Jamwal and Muneeshwar Sharma	Muzafar Mir
4	Effect of Tillage Practices and Mustard based Cropping Systems on Soil Quality in Drylands	Tanjot Kour and Sarabdeep Kour	Tanjot Kour
5	Impact of different land use systems on size distributions and aggregates stability in the submontaneous zone of foothill Himalayas	Vijay Kumar, K.R. Sharma, Vivak M. Arya and Vikas Sharma	Vijay Kumar
6	Impact of different land uses on soil characteristics of Chandanwari micro-watershed of district Anantnag	Haziq Shabir, Aziz Mujtaba, Aamir Hassan and Gulzar Bhat	Haziq Shabir
7	Impact of Land Use System and Seasonal Variations on Aggregate Associated Soil Carbon in Outer Himalayas	Japneet Kour Kukal, Vivak M. Arya and Vikas Sharma	Japneet K. Kukal
8	Impact of resource conservation techniques on runoff and sediment yield in lower shivaliks of Jammu	Meena Yadav, Vivak M. Arya, Ajay Thakur and Divya Sharma	Meena Yadav
9	Moisture influence on the soil microbial dynamics and microbial population	Gulzar Ahmad Bhat, Haziq Shabir, Vivak. M. Arya and Shafat Ahmad Ahanger	Gulzar Ahmad Bhat
10	Soil health, organic farming and nutrient management for sustainable productivity	Davinder Paul Singh, K. R. Sharma, Vivak M Arya, Vikas Sharma	Davinder Paul Singh
11	Status of major nutrients of Bharderwah orchard under temperate condition	Manoj Kumar, Neeraj Kotwal, Rohit Sharma, Sanjeev Kumar Choudhary, Mahital Jamwal,	Manoj Kumar

		Vijay Kumar and Sarbdeep Kour	
12	Studies on combinations of organic sources on productivity of rajmash (bush type) under high hills of Jammu	Rohit Sharma, Neeraj Kotwal, Manoj Kumar, Vivak M. Arya, Sanjeev Kumar and D. K. Chaun	Rohit Sharma
13	Sustainable soil health management in rainfed fruit production under changing climate scenario in shivaliks foothills of Jammu and Kashmir, India	Vijay Kumar, Rakesh Kumar, Manoj Kumar and Shalini Khajuria	Vijay Kumar
14	A model for sustainable agriculture through organic farming in post Covid-19 scenario	Shashank Sharma, Neha Khandey, Anjali Verma and Yogeshwari Sahu	Shashank Sharma
15	Antimicrobial activity of phytoextracts of medicinal plants against plant pathogens	Sakshi Baghat, Upma Dutta, Sonika Jamwal and Anamika Jamwal	Upma Dutta
16	Carbon addition through residues in rice-rice cropping system under long term fertilizer experiment in an inceptisol of Bhubaneswar, Odisha	Sipra Das, Shraddha Mohanty, R.K. Nayak and Bandita Jena	Shraddha Mohanty
17	Crop residue management for improving soil organic carbon	Amala Mary George, B. Sudha and Bindhya B.N	Amala Mary George
18	Distribution of Available Silicon in Rice growing Soils of Jammu Plains	Seema Pooniyan, Sarabdeep Kour and Vikas Sharma	Sarabdeep Kour
19	Economic Analysis of Traditional Goat Rearing by Gurjars' Folks of Bharatpur District of Rajasthan, India	V.S.Meena and UdaiBhan Singh	V.S.Meena
20	Effect of Organic manures in Long Term Nutrient Management System on Yield, Quality and Soil Health in Finger Millet	Sandhya Rani,Y., Jamuna, P., Triveni., Patro, T.S.S.K. and Anuradha, N.	Sandhya RaniY
21	Effect of organic manures, bio fertilizers, level of nitrogen and phosphorus on growth and yield of soyabean	C. K. Desai and G. J. Patel	C. K. Desai
22	Effect of varying fertilizer doses and Soil Test Crop Response based Integrated Plant Nutrient System on quality and yield of Bhendi	V.R. Mageshen, M. Dhanalakshmi, K. Ashwitha , T. Naveen Kumar and A. Pavithra	V.R. Mageshen
23	Energetics of organic nutrition in direct seeded rice	Nishan.M.A and Girijadevi.L	Nishan.M.A
24	Enzyme activities in Mountain Hydromorphic soils under different Land uses	Aiswarya K.P., K. Rajan, Anith Robinson P., Sujith K.S., Sneha H.	Aiswarya K.P.
25	Impact of conjoint strategy of nickel and zinc application on soil nutrient status and microbial functions under low nickel soil	Abhik Patra and Satish Kumar Singh	Abhik Patra
26	Impact of potassium and K-biofertilizer on economics of potato (<i>Solanum tuberosum</i> L.)	Amanpreet Singh	Amanpreet Singh
27	Improved strategies for sustainable sugarcane and sugar production	Satendrakumar S.P. Yadav S.C. Singh and Pratap Singh	Satendra Kumar
28	Influence of lime, farmyard manure, wood ash and rice stubble management on nutrient availability and tomato yield	Prantika Kakati, Anupama Das, Suravi Nandy and Nilay Borah	Prantika Kakati
29	Integrated Nutrient Management: A Smart Way to Improve the Soil Physical and Bio-Chemical Properties and productivity of Sugarcane	Manjul Kumar, Arun Alfred David and Amreen Hasan	Manjul Kumar
30	Land use effects on soil enzymes in high altitude region, The Nilgiris	K.S. Sujith, K.Rajan, H. Sneha, P. Anith Robinson and K.P. Aiswarya	ks .sujith
31	Mitogen Activated Protein Kinase (MAPK) signalling in plant disease resistance	Suhail Altaf, ShaheenKousar Jan, Raheeba TUN Nisa	Suhail Altaf
32	Nutrient availability in soil and tomato yield as influenced by compost sources and rice stubble management	Anupama Das, PrantikaKakati, SuraviNandy and Nilay Borah	Anupama Das
33	Nutrient uptake of container grown elephant foot yam as influenced by growth medium, nutrient schedule and irrigation schedule	N P Limisha and O K Swadija	N P Limisha
34	Organic farming and management effects on soil health	P. Rajalakshimi, R.Vinothini , M. Dhanalakshmi and G.Akila	Rajalakshimi P

35	Organic Farming and Nutrients Management for Sustainable Development	Alok Patel, Shani Kumar Singh,	Alok Patel, Shani Kumar Singh,
36	Organic pest control approaches against fruit flies towards sustainable productivity in Guava	Visakh N.U and Shantanu Jha	VisakhN.U
37	Precision Agriculture: Key to Mitigate the Adverse Effect of Climate Change	Suraj Goswami, Shiv Ram Samota Vivekanand and Pawan Kumar Harode	Suraj Goswami
38	Soil fertility effects of red gram [<i>Cajanus cajan</i> (L.) millsp.] under varying management practices in the southern laterites of Kerala	Anjana Devaraj G and Sheeba Rebecca Isaac	Anjana Devaraj G
39	Soil health and nutrient management for sustainable productivity	Shankar Lal Sunda, Akshikabhawariya, Dr. R. K. Jakhar	Shankar Lal Sunda
40	Soil organic carbon and its fractions as affected by integrated use of organic and fertilizer under blackgram of the foothill Himalayas	Tajamul Islam Shah, M.P. Sharma, Vikas Sharma, Vivak M. Arya	Tajamul Islam Shah
41	Technological intervention (Pruning) for sustainable productivity of nectarine cv snow queen	Sharbat Hussain, Rifat Bhat, Khalid Rasool, Md Tauseef, Md Waheed, Aijaz Ahmed	Sharbat Hussain
42	Tillering and number of millable canes pattern influenced by different fertility levels and variety in sugarcane	Jai Prakash Singh, Sunderpal and Viresh Singh	Jai Prakash Singh
43	Waste conversion efficiency of popular composting methods and characterization of various organic manures	Geethu Jacob, Pooja A P, K C Manorama Thampatti	Geethu Jacob
44	Availability of macro and micro nutrients in different four blocks of Moradabad district of Uttar Pradesh	Manoj Singh, Ravindra Kumar, N.C.Tripathi, and A.K.Mishra	Manoj Singh

TECHNICAL SESSION- V

Climate smart approaches for sustainable management of natural resources

15.00-15.30 August 17, 2020

Poster Presentations

Convener: Dr. Chandra Shekhar Singh

1	Applications of Hydrological Models for Improved Irrigation Management in Changing Climatic Scenario	Bheem Pareek and Nitesh Kumar	Bheem Pareek
2	Soil Carbon Losses through Erosion as influenced by Conservation Agricultural Practices	Divya Sharma, Vikas Sharma, Vivak M. Arya and Meena Yadav	Divya Sharma
3	Artificial glaciers: A sustainable technique in conserving water crises in cold-arid region of Ladakh	Stanzin Khenrab, Peeyush Sharma, Tenzin Topgyal	Stanzin Khenrab
4	Soil Carbon to mitigate climate change	Pradeep K. Rai, Vishal Gupta, Akash Sharma and Satish Sharma	Pradeep K. Rai
5	Climate Smart Agriculture: Key to Sustainable Production and Food Security	Sreeja, K., Mamatha Prabhakar, Anjaly C Sunny	Sreeja, K /Mamatha Prabhakar
6	Growth and yield of rice (<i>Oryza sativa</i> L.) varieties as influenced by nutrient management under irrigated- aerobic condition	Kiran Nayak, Koushik Sar and JML. Gulati	Kiran Nayak
7	Soil erosion studies under simulated rainfall conditions in a lateritic terrain	K. K. Praveena and E. K. Kurien	K K Praveena
8	Tropical tuber crops: Potential future crops under the changing climatic scenario	Anju B Raj ,Dr. Jacob John	Anju B Raj
9	Water Management under changing climate	Rajath, H. P., Yogesh, G. S., Jadeyegowda, M. and Adarsh, N	Rajath H P
10	Livelihood promotion and nutritional security through soil and water resource & management in NICRA Village of Banka District	Raghubar Sahu, Dharmendra Kumar, Manish Kumar and Raju Kumar	Dharmendra Kumar
11	Studies on Physico – Chemical and biological properties of soil in different cropping sequences of Thakurdwara Tahsil of Moradabad district	Ravindra Kumar, N.C. Tripathi, Manoj Singh and A.K. Mishra	Ravindra Kumar
12	Prediction of Water Table Height in Response to Skewed Peak Recharge Rate Within Raised Bed of Integrated Farming System Model	Gyan Singh, Chhedi Lal Verma and D.M. Denis	Gyan Singh
13	Prediction of evapotranspiration using pan evaporation based geometrical similarity model	S.K. Singh and Chhedi Lal Verma	S.K. Singh