

**DAY: 3**  
**Daate: 27.04.2023 (Thursday)**

**Technical Session: 10**

<b>Topic: Agriculture and sustainability: conservation and Organic agriculture integrated nutrient management and soil health, weed management , INM , Natural resource management and river basins management, ground water, irrigation and water management Solid waste management , Phyto remediation, heavy metal toxicity</b>	<b>Time: 10:30 AM – 5:00 PM</b>	<b>Venue:</b> Room No. 2, Academic Complex Building
<b>Chairperson:</b> Dr. G. N. Hazarika, Formerly DR (Agri), AAU Jorhat <b>Co-Chairperson:</b> Dr. Sanjeev Rai, Secretary, MoEF, Nepal	<b>Moderator</b> 1: Dr. Rabi Babu Magnum, ANGRAU, Andhra Pradesh Moderator 2: Dr. Mausumi Phukan, Department of Entomology, AAU	<b>Rapporteurs:</b> Dr. Kasturi Choudhuri, Dept. of Entomology, AAU Dr. Sangita Das, Dept. of Crop Physiology, AAU, Jorhat
<b>Time allocation:</b> (Total 65 papers) Key note: 15 Min – 4 Nos. (60 min) Lead lecture: 12 Min - Nil Invited talk = 10 Min – 8 Nos. (80 min) Oral = 8 Min – 30 Nos. (240 min, 4 Hrs) Panel discussion: 30- 60 Min Poster session: after completion of oral presentation (23 posters)		

## Agriculture and sustainability

Sl. No.	Topic	Affiliation	Email ID	Mode
1.	Weed is a bioindicator of climate change	Dr. Jayanta Deka, Dean FA, AAU, Jorhat-13	<a href="mailto:dean_agri@aau.ac.in">dean_agri@aau.ac.in</a>	Key note
2.	Conservation agriculture for sustainable hill farming in North East India	Anup Das <sup>1*</sup> , Jayanta Layek <sup>2</sup> , Saurav Saha <sup>3</sup> , Amit Kumar <sup>3</sup> , Subhash Babu <sup>4</sup> and Rakesh Kumar <sup>1</sup> <sup>1</sup> ICAR Research Complex for Eastern Region, Patna, India <sup>2</sup> ICAR Research Complex for NEH Region, Umiam, Meghalaya, India <sup>3</sup> ICAR Research Complex for NEH Region, Sikkim Centre, Gangtok, Sikkim, India <sup>4</sup> ICAR –Indian Agricultural Research Institute, New Delhi	<a href="mailto:anup.das2@icar.gov.in">anup.das2@icar.gov.in</a>	Key note
3.	Sustainable agricultural intensification to improve food and nutrition security	Dr, Vara Prasad Distinguished Professor and Director, <u>Kansas State University</u>	<a href="mailto:vara@ksu.edu">vara@ksu.edu</a>	Key note
4.	Towards nitrogen use efficiency (NUE) improvement for sustainable nitrogen management in rice	Nandula Raghuram Centre for Sustainable Nitrogen & Nutrient Management (USBT), Guru Gobind Singh Indraprastha University, New Delhi	<a href="mailto:raghuram@ipu.ac.in">raghuram@ipu.ac.in</a>	Key note
5.	Management of acid soil	Dr. B.K. Medhi, Department of Soil Science, AAU Jorhat-13	<a href="mailto:binoy.medhi@aau.ac.in">binoy.medhi@aau.ac.in</a>	Invited
6.	Soil variability: implication to land-uses and agricultural sustainability along north-south transect between hills and valley of Chitwan district, Nepal	Adhikari, K.R., and Lamichhane, S. Nepal Polytechnic Institute (NPI) under Purbanchal University, Bharatpur, Chitwan	<a href="mailto:keshav.adhikari2008@gmail.com">keshav.adhikari2008@gmail.com</a>	Invited

7.	Optimizing nitrogen fertilizer application for enhancing crop productivity, nitrogen use efficiency and minimizing nitrous oxide (N <sub>2</sub> O) emission from rice paddy of Jharkhand, eastern India.	Raushan Kumar and Nirmali Bordoloi* Department of Environmental Sciences, Central University of Jharkhand, Brambe, Ranchi-835205, India.	nirmali.bordoloi@cuja c.in	Invited
8.	Land degradation in mountain communities in northern Thailand	Maddie Cason Climate Change and Sustainable Development, Department of Energy, Environment, and Climate Change , School of Environment, Resources, and Development Asian Institute of Technology	st122405@ait.asia	Invited
9.	A novel approach for phosphorus estimation in organically managed acidic soils, Meghalaya, India	Sanjay-Swami* and Pritisha Patgiri School of Natural Resource Management, College of Post Graduate Studies in Agricultural Sciences, Central Agricultural University, Umiam (Barapani) – 793103, Meghalaya, India	sanjayswamionline@g mail.com	Invited
10.	Phosphorus uptake efficiency of rice genotypes with or without QTL Pup1 loci in response to fertilization regimes under low P acid soil	Oyem Taki <sup>1</sup> , <u>Dwipendra Thakuria</u> <sup>1,*</sup> , Mayank Rai <sup>2</sup> and Samarendra Hazarika <sup>3</sup> <sup>1</sup> School of Natural Resource Management, <sup>2</sup> School of Crop Improvement, CAU - College of Post Graduate Studies in Agricultural Sciences, Umiam, 793103, Meghalaya. <sup>3</sup> Soil Science, Division of System Research and Engineering, ICAR Research Complex for Northeastern Hill Region, Umiam, 793103, Meghalaya	<a href="mailto:thakuria.dwipendra@yahoo.co.in">thakuria.dwipendra@yahoo.co.in</a>	Invited
11.	Role of zinc solubilizing bacteria in improving zinc status in rice	Jana Jayaprakash* <sup>1</sup> , Aditi Dwivedi <sup>1</sup> , Kiran P. Suthar <sup>1</sup> , M. D. Khunt <sup>2</sup> , V. B. Parekh <sup>3</sup> , and Nilima	jayaprakash.jana2000@gmail.com	Invited

		<p>Karmakar<sup>4</sup></p> <p><sup>1</sup>Department of Plant Molecular Biology and Biotechnology, ASPEE College of Horticulture, Navsari Agricultural University, Navsari 396 450, Gujarat, India</p> <p><sup>2</sup>Department of Biochemistry, N. M. College of Agriculture, Navsari Agricultural University, Navsari 396 450, Gujarat, India</p> <p><sup>3</sup>Department of Basic Sciences, College of Forestry, Navsari Agricultural University, Navsari 396 450, Gujarat, India</p> <p><sup>4</sup>Department of Biochemistry, N. M. College of Agriculture, Navsari Agricultural University, Navsari 396 450, Gujarat, India</p>		
12.	Building climate-resilient and nutrient enriched crops in a changing world	<p>Rohit Joshi<sup>1,2</sup></p> <p><sup>1</sup>Division of Biotechnology, CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh, 176061, India</p> <p><sup>2</sup>Academy of Scientific and Innovative Research (AcSIR), CSIR-HRDC Campus, Ghaziabad, Uttar Pradesh, 201 002, India</p>	<a href="mailto:joshirohit6@gmail.com">joshirohit6@gmail.com</a>	Invited
13.	Effect of different levels of nutrients and spacing on niger genotypes	<p>Akshatha<sup>1</sup>, Pushpa, K.<sup>2</sup>, Ravishankar, P.<sup>3</sup>, Krishnamurthy R.<sup>4</sup> And Zainuddin Khan, P<sup>5</sup></p> <p><sup>1,2&amp;5</sup>Department of Agronomy, <sup>3</sup>AICRP on Oilseed scheme, <sup>4</sup>AICRP on STCR, UAS, GKVK, Bengaluru - 560 065</p>	<a href="mailto:apchavan20@gmail.com">apchavan20@gmail.com</a>	Oral
14.	Improvement in productivity and profitability of black gram through front line demonstration	<p>Brajkishor Prajapati<sup>1</sup>, Mrigendra Singh<sup>1</sup>, Alpana Sharma<sup>1</sup>, Deepak Chouhan<sup>1</sup>, Bhagwat Prasad Pandre<sup>1</sup>, Gurpit Singh Gandhi<sup>2</sup>, Vinod Sharma<sup>3</sup>,</p> <p><sup>1,2,3</sup>KVK Shahdol (M.P.)</p>	<a href="mailto:brajkishorprajapati1@gmail.com">brajkishorprajapati1@gmail.com</a>	Oral
15.	Millets: it's role towards mitigating food security	<p>G. D. Chandankar<sup>1</sup>, V V Tapare<sup>2</sup>, S S Munje<sup>3</sup> and A. N. Warghat<sup>4</sup></p>	<a href="mailto:gchandankar@rediffmail.com">gchandankar@rediffmail.com</a>	Oral

		Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, M.S. 444606		
16.	An economic analysis of crop diversification in Maharashtra	Kaveri Y. Khairnar <sup>1</sup> and Sachin S. More <sup>2</sup> Department of Agricultural Economics, M.P.K.V. Rahuri, Maharashtra., Department of Agricultural Economics, VNMKV, Parbhani, Maharashtra	<a href="mailto:kaveriyk@gmail.com">kaveriyk@gmail.com</a>	Oral
17.	Land degradation in mountain communities in northern Thailand	Maddie Cason Climate Change and Sustainable Development, Department of Energy, Environment, and Climate Change , School of Environment, Resources, and Development Asian Institute of Technology	<a href="mailto:st122405@ait.asia">st122405@ait.asia</a>	Oral
18.	Yield gap analysis of cluster frontline demonstrations (CFLD) oil seeds mustard ( <i>Brassica juncea</i> ) in tribal district of Mandla, Madhya Pradesh	Meshram Vishal, Bharti Pranay, Prajapati BK, Suryawanshi VS Senior scientist & Head, KVK Mandla (MP), J.N.K.V.V., Jabalpur (MP), India	<a href="mailto:vishalmdl1978@gmail.com">vishalmdl1978@gmail.com</a>	Oral
19.	Effect of various stages and levels of detopping on growth parameters of rabi maize	Navanath Nayak <sup>1</sup> , S S Angadi <sup>2</sup> and Shivamurthy D <sup>3</sup> <sup>1</sup> Department of Agronomy, College of Agriculture, University of Agricultural Sciences, Dharwad 580 005, Karnataka, India. <sup>2</sup> Department of Agronomy, University of Agricultural Sciences, Dharwad 580 005, Karnataka, India. <sup>3</sup> Department of Agronomy, of Agricultural Sciences, Dharwad 580 005, Karnataka, India.	<a href="mailto:nayaknavanath@gmail.com">nayaknavanath@gmail.com</a> / <a href="mailto:angadiss@uasd.in">angadiss@uasd.in</a> / <a href="mailto:shivaagron@gmail.com">shivaagron@gmail.com</a>	Oral
20.	Response of liquid biofertilizer and their mode of application on growth and yield of fingermillet ( <i>Eleusine coracana</i> L.)	Balram Yadav Department of Agronomy, Central Agriculture University, Imphal, Manipur	<a href="mailto:balramyadav244200@gmail.com">balramyadav244200@gmail.com</a>	Oral

21.	Smart fertilizers as a strategy for sustainable agriculture	P. Neeshma* <sup>1</sup> , G. S. Pawar <sup>2</sup> , S. S. Halge <sup>1</sup> and A. D. Pawar <sup>1</sup> <sup>1</sup> Dept of Agronomy, College of Agriculture, V.N.M.K.V, Parbhani, Maharashtra, India <sup>2</sup> Dept of Agril. Botany, College of Agriculture, V.N.M.K.V, Parbhani, Maharashtra, India	neeshma1122@gmail.com	Oral
22.	Sustainable cropping intensification under conservation agriculture in rice fallow system of Eastern India	Rakesh Kumar <sup>1*</sup> , Jaipal Singh Choudhary <sup>2</sup> , Surajit Mondal <sup>1</sup> , Janki Sharan Mishra <sup>3</sup> , Anup Das <sup>1*</sup> Govind Makarana <sup>1</sup> , Hansraj Hans <sup>1</sup> , Sanjeev Kumar <sup>1</sup> , Santosh Sambhaji Mali <sup>2</sup> , Sushanta Kumar Naik <sup>2</sup> , Bal Krishna Jha <sup>2</sup> , Ashis Kumar Biswas <sup>4</sup> <sup>1</sup> ICAR Research Complex for Eastern Region, Patna-800 014, Bihar, India <sup>2</sup> ICAR Research Complex for Eastern Region, FSRCHPR, Ranchi, Jharkhand, India. <sup>3</sup> ICAR Directorate of Weed Research, Jabalpur-482 004, Madhya Pradesh, India <sup>4</sup> ICAR Indian Institute of Soil Science, Bhopal-462 038, Madhya Pradesh, India	*rakeshbhu08@gmail.com/anup_icar@yahoo.com	Oral
23.	Isolation and identification of a hexadecane-degrading bacterial strain, <i>Pseudomonas aeruginosa</i> PT72	Swati Acharjee*; Sreezana Gautom; Palakshi Bordoloi; Sachin Ramesh Rao Geed <sup>a</sup> Assam downtown university, Guwahati, 781026, India <sup>b</sup> Rajiv Gandhi Institute of IT & Biotechnology, Bharati Vidyapeeth, Pune, 411 046, India <sup>c</sup> CSIR-North East Institute of Science and Technology, Jorhat-785006, India.	swatiacharjee141@gmail.com	Oral
24.	Varietal response of mustard to zinc and boron fertilization	Shivanand Jha, Md Parvez Anwar and Swapankumar Paul* Department of Agronomy, Bangladesh Agricultural University, Mymensingh 2202, Bangladesh	skpaul@bau.edu.bd	Oral
25.	Study of growth performance of	Khushbu Kumari and Kuldeep Bauddh*	kuldeep.bauddh@cuja	Oral

	jatropha curcascultivated in abandoned bauxite mine soil	Department of Environmental Sciences, Central University of Jharkhand, Ranchi-835205, India.	c.in	
26.	Effect of zinc based fertilizer in combination with zinc mobilizing bacteria and jeevamrit for soil application under maize crop	Deepak Kumar Dwivedi* Department of Soil Science and Agricultural Chemistry, Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya 224229 (U.P.)	deepakdwivedi.agro@gmail.com	Oral
27.	Performance of ginger genotypes for growth, yield and disease incidence	Suchand Datta, Ram Krishna Sarkar* and Soumendra Chakraborty Uttar Banga Krishi Viswavidyalaya Pundibari, Cooch Behar, West Bengal-736165, India	sarkar_ram@rediffmail.com	Oral
28.	Effect of tillage operation and fertilizer management on yield and yield contributing characters of boro rice in saline prone zone of Bangladesh	Md. Ibrahim Ali*, Md. Shahidul Islam <sup>1</sup> , Md. Shahed Hossain <sup>1</sup> , Md. Abul Kalam Azad <sup>2</sup> Division of Agronomy, Bangladesh Institute of Nuclear Agriculture, Mymensingh-2202, Bangladesh. <sup>1</sup> Agronomy Division, Bangladesh Institute of Nuclear Agriculture, Mymensingh-2202, Bangladesh. <sup>2</sup> Soil Resource Development Institute, Batiaghata, Khulna, Bangladesh.	ibrahimbd402@gmail.com	Oral
29.	Effect of INM on yield of groundnut ( <i>Arachis hypogaea</i> L.) in acid Inceptisol of Meghalaya	Sushree Panda* and A. K. Singh Department of Agronomy, School of Natural Resource Management, College of Post Graduate Studies in Agricultural Sciences (CAU-I), Umiam, 793103, Meghalaya	sushreep@hotmail.com	Oral
30.	Elevated temperature and carbon dioxide influences the nitrate assimilation in wheat under differential nitrogen	Vijayalakshmi Suryavanshi <sup>1</sup> , Nandini G <sup>1</sup> , Abhishek Chitranshi <sup>1</sup> , G. Malleesh, Suneha Goswami <sup>1</sup> , Vinutha T. <sup>1</sup> , Sudhir Kumar <sup>2</sup> , Rakesh Pandey <sup>2</sup> , Dwijesh Mishra <sup>3</sup> , Neeraj Budhlakoti <sup>3</sup> , Krishna K. Chaturvedi <sup>3</sup> , Anil Rai <sup>3</sup> , Viswanathan C. <sup>2</sup> , Ranjeet R.	ranjeetranjaniari@gmail.com	Oral

		Kumar <sup>1</sup> , <sup>1</sup> Division of Biochemistry, <sup>2</sup> Division of Plant Physiology, ICAR-Indian Agricultural Research Institute, New Delhi, 110012 <sup>3</sup> CABin, Icar-Indian Agricultural Statistics Research Institute, New Delhi, 110012		
31.	Effect of Fertilizer on the Nutrient Concentration and uptake of Local Fine Rice Varieties in Haor areas of Bangladesh	M A Aziz <sup>1*</sup> , M A Kashem <sup>2</sup> , M N H Miah <sup>3</sup> and A F M S Islam <sup>4</sup> <sup>1, 2</sup> Department of Soil Science, <sup>3</sup> Department of Agronomy and Haor Agriculture <sup>4</sup> Department of Crop Botany and Tea Technology Sylhet Agricultural University, Sylhet 3100, Bangladesh	<a href="mailto:mazizsoil@yahoo.com">mazizsoil@yahoo.com</a>	Oral
32.	Foliar application of micro nutrients and plant growth regulators on growth, yield and quality of grape ( <i>Vitis vinifera</i> L.)	Mallikarjun G. Awati, Rakesh M., Anand Nanjappanavar, Sateesh Pattepur and Veeresh M. Hiremath Dept. of Biotechnology and Crop Improvement, Fruit Science and Post-harvest Management, College of Horticulture, Bagalkot-587104, Karnataka state, India	<a href="mailto:mgawati@gmail.com">mgawati@gmail.com</a>	Oral
33.	Performance of seaweed sap foliar application on the growth parameters and yield of maize ( <i>Zea mays</i> L) cultivars	M. R. Meshram <sup>1*</sup> , Shikha Singh <sup>2</sup> , Shivani Kumari <sup>3</sup> and Lalit Sanodiya <sup>4</sup> Department of Agronomy, SHUATS, Prayagraj, India (211007) Department of Agronomy, SHUATS, Prayagraj, India (211007), Deptt. of Agronomy, SASRD, Nagaland University, AgriColony, Medziphema, Nagaland (797 106), India, , Department of Agronomy, SHUATS, Prayagraj, India (211007)	<a href="mailto:mayurcicr@gmail.com">mayurcicr@gmail.com</a>	Oral
34.	Enhancement in production and productivity of pigeonpea through cluster frontline demonstration	Mrigendra Singh <sup>1</sup> , Alpana Sharma <sup>1</sup> , Brajkishor Prajapati <sup>1</sup> , Deepak Chouhan <sup>1</sup> , Bhagwat Prasad Pandre <sup>2</sup> , Rishi Negi <sup>3</sup> , Gurpit Singh Gandhi <sup>4</sup> , Vinod	<a href="mailto:brajkishorprajapati1@gmail.com">brajkishorprajapati1@gmail.com</a>	Oral



	under tribal sub-plan	Sharma <sup>5</sup> KVK Shahdol (M.P.)		
35.	Phenotypic characterization of plant growth promoting microbial isolates from maize rhizosphere and phyllosphere	Gayatri PralhadTurkar Department of Soil Science & Agricultural Chemistry, ANDUA&T, Kumarganj, Ayodhya (U.P.)-224229	<a href="mailto:gayatriturkar1234@gmail.com">gayatriturkar1234@gmail.com</a>	Oral
36.	Soil nutrient dynamics of Alfisols as influenced by green manure and mucuna ( <i>Mucuna pruriens</i> L.)	S. Ramachandran and G. Selvakumar AR-Indian Institute of Horticultural Research, Hessaraghatta Lake Post, Bengaluru-560089, Karnataka	<a href="mailto:S.Ramachandran@icar.gov.in">S.Ramachandran@icar.gov.in</a>	Oral
37.	Process standardization and quality evaluation of roti made from different varieties of sorghum.	Shinde E.M., Pawar V.S., Rodge S.M. & Gajmal D.B., College of Food Technology, VNMKV, Parbhani-431 402 (M.S.)	<a href="mailto:shindeknath50@gmail.com">shindeknath50@gmail.com</a>	Oral
38.	Agronomic management practices for seed production of fodder maize	A.P. Chavan <sup>1*</sup> , U.S. Kudtarkar <sup>2</sup> , S.V. Deshmukh <sup>3</sup> , V.N. Shetye <sup>4</sup> And P. S. Bodake <sup>5</sup> Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli 415 712 (MS)	<a href="mailto:apchavan20@gmail.com">apchavan20@gmail.com</a>	Oral
39.	Performance of ginger genotypes for growth, yield and disease incidence	Suchand Datta, Ram Krishna Sarkar* and Soumendra Chakraborty Uttar Banga Krishi Viswavidyalaya Pundibari, Cooch Behar, West Bengal-736165, India	<a href="mailto:sarkar_ram@rediffmail.com">sarkar_ram@rediffmail.com</a>	Oral
40.	Soil macro and micronutrient status in acidic soil as affected by integrated nutrient management in rapeseed ( <i>Brassica campestris</i> L.)	Priyobarta Singh Khumukcham <sup>1*</sup> , W. Herojit Meetei <sup>2</sup> , Bhabesh Gogoi <sup>1</sup> <sup>1</sup> Department of Soil Science, Assam Agricultural University, Jorhat - 785013, Assam, India <sup>2</sup> Department of Soil Science and Agricultural Chemistry, SAIRAM, Imphal - 795113, Manipur, India	<a href="mailto:priyobartas7@gmail.com">priyobartas7@gmail.com</a>	Oral

41.	Influence of long-term fertilization on carbon sequestration in acid Inceptisols of tropical rice-rice agro-ecosystem	Sweta Nanda and Mitali Mandal Department of Soil Science and Agricultural Chemistry, College of Agriculture, Odisha University of Agriculture and Technology, Bhubaneswar, Odisha, India, 751003	mitalimandal83@gmail.com	Oral
42.	Phenology and productivity of maize ( <i>Zea mays</i> L.) as influenced by different methods of zinc application	Arju Sahid Ahmed <sup>a</sup> , Partha Sarathi Patra <sup>b*</sup> and Sarbani Roy <sup>c</sup>  Department of Agronomy, Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar West Bengal-736165, b Department of Agronomy, Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar West Bengal-736165, India, c Department of Plant Physiology and Breeding, Tocklai Tea Research Institute, TRA, Jorhat, Assam-785008, India,	sahidarju94@gmail.com  parthaagro@gmail.com	Poster
43.	Biofortification of soybean ( <i>Glycine max</i> L. Merrill) varieties with zinc and its influence on growth, yield and quality: a strategy towards enhancing nutritional security	Badapmain Makdoh <sup>1</sup> , A. P Singh <sup>2</sup> , L. T Longkumer <sup>2</sup> , T. Gohain <sup>2</sup> , Y. K Sharma <sup>2</sup> , L. Daiho <sup>2</sup> L. Touthang <sup>1</sup> and D. Lytan <sup>2</sup>  <sup>1</sup> ICAR Research complex for NEH region, Arunachal Pradesh centre, Basar-791101 <sup>2</sup> SASRD, Nagaland University, Medziphema Campus, Nagaland -797 106	tbmakdohicar@gmail.com	Poster
44.	Effect of sorghum based intercropping system on yield and economics of sorghum	S. Kavya <sup>*1</sup> , K. Pushpa <sup>1</sup> , R. Krishnamurthy <sup>2</sup> , G. Somu <sup>3</sup> and P. Zainuddin Khan <sup>1</sup>  <sup>1</sup> Department of Agronomy, GKVK, <sup>2</sup> AICRP on STCR, GKVK and <sup>3</sup> AICRP on sorghum, Chamarajanagar. University of Agricultural Sciences, GKVK, Bengaluru-560 065, Karnataka	kavyasprasad318@gmail.com	Poster
45.	Evaluation of conservation agriculture-based crop establishment methods and	Ms. Bhangare Rupali V <sup>1</sup> , Prof. Pravin Prakash <sup>2</sup> and Prof. U. P. Singh <sup>3</sup> Department of Plant Physiology,	rupali.bhangare5@gmail.com	Poster

	nutrient management practices on morpho-physiological and yield parameters of rice ( <i>Oryza sativa</i> L.) in R-W cropping system	Department of Plant Physiology, prakasbhu@gmail.com Department of Agronomy, judaipratap.singh1@gmail.com Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005, (U.P.) India		
46.	Weed flora, productivity and profitability of aromatic black rice ( <i>Oryza sativa</i> L.) as influenced by different date of transplanting and integrated weed management under SRI	D.Nongmaithem and Sibino Dolie Department of Agronomy School of Agricultural Sciences and Rural Development, Nagaland University, Medziphema-797106, Nagaland, India		Poster
47.	Role of bioplastic in agriculture waste management in India	Abhilasa Kousik Borthakur <sup>1*</sup> , Neelakshi Bhuyan <sup>1</sup> and Gunjan Gogoi <sup>1</sup> <sup>1</sup> Krishi Vigyan Kendra Dhemaji-787061	abhilasa.k.borthakur@aau.ac.in	Poster
48.	Impact of scientific fodder cultivation in enhancement of productivity in dairy cattle with special reference to green fodder in rabi season	P. Pathak <sup>1</sup> , G. Gogoi <sup>1</sup> , A. K. Saikia <sup>2</sup> , B. Konwar <sup>1</sup> , M. Neog <sup>3</sup> , R. K. Soud <sup>3</sup> and P. K. Pathak <sup>3</sup> <sup>1</sup> Krishi Vigyan Kendra, Dhemaji, <sup>2</sup> LCVSc, North Lakhimpur, <sup>3</sup> Directorate of Extension Education, Assam Agricultural University, Jorhat, Assam	kvk_dhemaji@aau.ac.in	Poster
49.	Performance of linseed ( <i>Linum usitatissimum</i> L.) varieties in foothills of Nagaland under irrigated condition	Wanda Entalyrose Susngi <sup>1</sup> , Dr. Rekha yadav*, Dr. A. P. Singh <sup>2</sup> , Dr. Lanunola Tzudir <sup>2</sup> , Dr. Debika nongmaithem <sup>2</sup> Department of Agronomy, School of Agricultural Sciences and Rural Development, Nagaland University, Medziphema-797106, Nagaland, India.	rekha25yadav@gmail.com	Poster
50.	Naphthalene biodegradation using isolated bacterial species from petroleum contaminated site	SreezanaGautom <sup>a*</sup> ; Swati Acharjee <sup>b</sup> ; PalakshiBordoloi <sup>c</sup> ; SachinRameshraoGeed <sup>c</sup> <sup>a</sup> Rajiv Gandhi Institute of IT & Biotechnology, Bharati Vidyapeeth, Pune, 411 046, India <sup>b</sup> Assam down town university,Guwahati, 781026, India	sreezana12@gmail.com	Poster

		CSIR-North East Institute of Science and Technology, Jorhat-785006, India.		
51.	Comparative analysis of termite mounds and their adjacent soils under bamboo land use	Sushmita Konwar Department of Soil Science, Assam Agricultural University, Jorhat-785013	sushmita.konwar.adj20@au.ac.in	Poster
52.	Soilerodibility characteristics under different land-uses in hilly ecosystem	Tikendrajit Saikia Department of soil science, Assam Agricultural University, Jorhat-785013, Assam	tikendras123@gmail.com.	Poster
53.	Improvement in productivity and profitability of black gram through front line demonstration	Brajkishor Prajapati <sup>1</sup> , Mrigendra Singh <sup>1</sup> , Alpana Sharma <sup>1</sup> , Deepak Chouhan <sup>1</sup> , Bhagwat Prasad Pandre <sup>1</sup> , Gurpit Singh Gandhi <sup>2</sup> , Vinod Sharma <sup>3</sup> , <sup>123</sup> KVK Shahdol (M.P.)	brajkishorprajapati1@gmail.com	Poster
54.	Yield gap analysis of cluster frontline demonstrations (CFLD) oil seeds mustard ( <i>Brassica juncea</i> ) in tribal district of Mandla, Madhya Pradesh	Meshram Vishal, Bharti Pranay, Prajapati BK, Suryawanshi VS KVK Mandla (MP), J.N.K.V.V., Jabalpur (MP), India	vishalmd11978@gmail.com	Poster
55.	Organoclays: a novel approach towards remediation of contaminated soils	Ankita Kumari <sup>*</sup> , Anjuma Gayan <sup>2</sup> , Dhruba Jyoti Nath <sup>3</sup> <sup>1*</sup> and <sup>3</sup> Department of Soil Science, College of Agriculture, Assam Agricultural University, Jorhat-13 <sup>2</sup> College of Sericulture, Assam Agricultural University, Jorhat-13	akumari2019@gmail.com	Poster
56.	Extent of adoption of SRI technology for sustainable rice production in Nagaland	Azhanuo Rutsa <sup>1</sup> and K. K. Jha <sup>2</sup> 1., 2. Dept of Agril . Extension, NU, SASRD, Nagaland	azhanuorutsa@gmail.com	Poster
57.	Certain aspects of base metal mineralization in Potin area of Subansiri district, Arunachal Pradesh (India)	Dr Bimal Kumar Tamuli Department of Geology, Pragjyotish College, Guwahati-781009, Assam, India,	tamuli.bimal@gmail.com	Poster

58.	Fertilizer briquettes: a new paradigm for nutrient management	Dhritismita Das, Department of Agronomy, Assam Agricultural University, Jorhat	dhritismita.das.amj21@aau.ac.in	Poster
59.	Effect of solar bubble dryer on seed quality of paddy	Eunice Suoneiyangserto, Assam Agricultural University, Jorhat-13		Poster
60.	Modelling of total soil carbon along the altitude using readily available soil properties	Genius Teron <sup>1*</sup> , Reetashree Bordoloi <sup>1</sup> , Ashish Paul <sup>1</sup> , Lal Bihari Singha <sup>2</sup> and Om Prakash Tripathi <sup>3</sup> . <sup>1</sup> Department of Forestry, North Eastern Regional Institute of Science and Technology (Deemed to be University), Nirjuli-791109, Arunachal Pradesh, India. <sup>2</sup> Department of Life Science, Manipur University, Canchipur-795003, Imphal, Manipur, India. <sup>3</sup> Department of Environmental Science, Mizoram University, Aizawl-796004, Mizoram, India	teron.genius@gmail.com	Poster
61.	Sustainable biochar as a climate smart input for climate change mitigation	Richa Saikia Department of Agronomy, Assam Agricultural University, Jorhat	richasaikia25@gmail.com	Poster
62.	Soil suitability evaluation for finger millet ( <i>Eleusine coracana</i> ) in the state of Karnataka-a case study	R.S. Meena <sup>1*</sup> , A. Natrajan <sup>2</sup> , R.Hegde <sup>2</sup> , Ashok Kumar <sup>3</sup> , Arijit Barman <sup>1</sup> , K.K. Mourya <sup>1</sup> , Surabhi Hota <sup>1</sup> , and U.S. Saikia <sup>1</sup> <sup>1</sup> ICAR- National Bureau of Soil Survey and Land Use Planning, Regional Centre, Jorhat, Assam, 785004 India <sup>2</sup> ICAR- National Bureau of Soil Survey and Land Use Planning, Regional Centre, Hebbal Bangalore, 560024 India <sup>3</sup> ICAR- National Bureau of Soil Survey and Land Use Planning, Regional Centre, Delhi, New Delhi	mramswaroop@gmail.com	Poster

63.	Screening of citrus rootstock germplasm for aluminium toxicity tolerance suitable to acid soil under natural farming	Panchali Uzir*and Dwipendra Thakuria School of Natural Resource Management, College of Post Graduate Studies in Agricultural Sciences, Central Agricultural University, Umiam 793103, Meghalaya	<a href="mailto:panchaliuzir@gmail.com">panchaliuzir@gmail.com</a>	Poster
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**Panel Discussion :**

**Topic: Is transformation of rice-based agri-food systems feasible under changing climate and sustainable management of economy?**

**Panellists:**

1. Dr. G. N. Hazarika, Ex DR (Agri)
2. Dr. Jayanta Deka, Dean Faculty of Agriculture, AAU Jorhat
3. Dr. Nandula Raghuram, Centre for Sustainable Nitrogen & Nutrient Management (USBT), Guru Gobind Singh Indraprastha University, New Delhi
4. Anup Das, ICAR Research Complex for Eastern Region, Patna, India

\*Chairperson and Co-chairperson will judge both oral and poster presentation session.

\*After completion of the oral presentations, the poster presentations will be judged.

\* Rapporteurs will submit the proceedings same day to Dr. P. K. Barua, Professor, PBG & Chairman, Technical Committee covering the particulars of presented papers, results and outcome of the sessions. ( mail id:purna.barua@aau.ac.in)