

DAY: 2

Date : 26.04.2023 (Wednesday)

Technical Session: 5

Title : Spices condiments rubber plantation and forestry and non-forest timber and agro biodiversity	Time: 10:00 AM to 5:00 PM	Venue: Academic Complex Building (IDA) Room No. 2
Chairperson: Dr. A. Mao, Director, BSI, Kolkata Co-Chairperson: Dr. Ramen Kumar Sarma, Joint Registrar, AAU, Jorhat	Moderator 1: Dr. Aditi S. Gogoi, Dept. of THT, AAU 2.. Dhruba Joyti Das	Rapporteur: 1.Dr. Diganta Kumar Borah , Dept. of THT, AAU 2.Dr. Sanjib Sharma, Dept. of Horticulture, AAU

Sl.No	Topic	Affiliation	Mail id	Mode
1	Production, Research and Exports of Indian Spices- an over view.	Dr. A.B. Rema shree, Director, Research, Spices Board, Ministry of commerce and Industry, Govt. of India, Cochin	remashreeab.sb@gov.in,	Keynote
	TEA ENTHUSIASTS AND THE SPECIALITY TEA INDUSTRY IN INDIA	Ms. Arunita Phukan Yadav, Mrs. Arunita Phukan Yadav, Director, Tea Board, N.E. Zone	teaboardguwahati@hotmail.com	Keynote
1.	CARBON FARING THROUGH BAMBOO PLANTATION	Dr. (Mrs.). Jessy M.D. Director Research, RRI, India	rubberscience@rubberboard.org.in	Keynote
2.	BIODIVERSITY OF BENEFICIAL MICROBES IN THE TEA ECOSYSTEM: RECENT ADVANCES IN MICROBIAL CONTROL OF TEA PESTS AND DISEASES IN NORTH	Dr. A. BABU, Director Tea Research Association, Tocklai Tea Research Institute, Jorhat-785008, Assam	Email: a.babu@tocklai.net	Lead

	EAST INDIA			
3.	TEA TOURISM	Dr. R. P. Bhuyan, DSW, AAU Jorhat-13	rana.bhuyan@aau.ac.in	Lead
4.	SCOPE OF AGAR PLANTATION IN GENERATION OF LIVELIHOOD IN NORTHEAST INDIA	Dr. Rajib Bora. RFRI,		
5.	PROBLEM OF COFFEE PLANTATION IN NORTHEAS	Dr. Navin Kumar Bahl ,Ryntathiang , Joint Director extension		
6.	USE OF LOCALIZED CONSERVATION PRIORITY INDEX IN IDENTIFYING THREATENED PLANT DIVERSITY IN SAMAR FORESTS OVER LIMESTONE	Inocencio E Buot Jr.1*, Ren Devien Obena1, Marne Origenes1, Jonathan O. Hernandez1, Noba Hilvano2, Diana Shane Balindo3, and Edelyn Echapare3 1University of the Philippines Los Banos, College, Laguna, Philippines 2Eastern Samar State University, Salcedo, Eastern Samar 3Samar State University, Catbalogan City, Samar	E. Buot Jr.@up.edu.ph	Lead
7.	TROPICAL TASAR SILKWORM SEED PRODUCTION IN INDIA FOR TRIBAL LIVELIHOOD	Venugopal* and N. B. Chowdary Basic Tasar Silkworm Seed Organisation, CSB, Bilaspur-495 112, Chhattisgarh	avgvrm@gmail.com	Invited
8.	UNLEASHING TRIBAL ENTREPRENEURSHIP THROUGH TROPICAL TASAR SILK VALUE CHAIN	SATHYANARAYANA KUTALA Central Tasar Research and Training Institute, Ranchi – 835303, Jharkhand, India	skutala@yahoo.com	Invited
9.	EXPERIENCE OF COMMUNITY-LED FOREST LANDSCAPE IN CHITTAGONG HILL TRACTS	Farid Uddin Ahmed Former Executive Director Arannayk Foundation	farid1952@gmail.com	Invited

10.	A STUDY ON THE SYNURBIZATION OF RHESUS MACAQUE (MACACA MULATTA) IN DOON VALLEY, UTTRAKHAND	Abhay Kr. Pandey, Sharmistha Rej ¹ , Anil Kumar ² , Kishan Kumar ³ , Neetu Arya ¹ 1. Indian Institute of Forest Management, Bhopal; 462001, 2., Zoological Survey of India, North Regional Center, Dehradun-248001 3. Division Forest Officer, Shimla, Himachal Pradesh	akpandeyfri21@iifmbhopal.edu.in , aykupy777@gmail.com	Oral
11.	ASSESSING POTENTIAL DISTRIBUTION RANGE OF HEVEA BRASILIENSIS UNDER DIFFERENT CLIMATE CHANGE SCENARIOS IN INDIA USING ECOLOGICAL NICHE MODELLING	Debabrata Ray Regional Research Station, Rubber Research Institute of India, Agartala, Tripura 799006	debabrata@rubberboard.org.in	Oral
12.	SERI-AGRO-FORESTRY CONVERGENCE FOR PROMOTION OF VANYA SERICULTURE IN NORTHEAST INDIA	Dharmendra Kumar Jigyasu ^{1*} , Aftab A. Shabnam ¹ , Om Prakash Patidar ¹ , Amit Kumar ² and K.M. Vijayakumari ¹ ¹ Central Muga Eri Research & Training Institute, CSB, Lahdoigarh, Jorhat-785700, Assam ² Central Sericultural Research & Training Institute, CSB, Mysuru- 570 008, Karnataka	jjgyasu2012@gmail.com	Oral
13.	METASPEQ™ TRACEBILITEA: NIR FINGERPRINT BASED BLOCKCHAIN TECHNOLOGY FOR END-TO-END VALUE CHAIN TRANSPARENCY AND TRACEABILITY OF TEA	Dilip Sing ^{1*} , Subhadip Banerjee ¹ , Udai Pratap Singh ¹ , Soumitra Das Mahapatra ¹ , Sandip Sanyal ² , Romen Chandra Gogoi ² , Santanu Sabhapondit ² , Ajanto Kumar Hazarika ² , Rajib Bandyopadhyay ¹ ¹ Department of Instrumentation and Electronics Engineering, Jadavpur University,	dilipsing.ju@gmail.com	Oral

		Salt Lake Campus, Kolkata 700106, India ² Tocklai Tea Research Institute, Tea Research Association, Jorhat 785008, Assam, India		
14.	CHALLENGES IN IMPROVEMENT OF PLANTATION, FORAGE, AROMATIC AND MEDICINAL PLANTS. INTEGRATED PEST MANAGEMENT. SOIL, WATER AND NUTRIENT MANAGEMENT	Galande ¹ Harshada* R., Pawar ² G.S. and Arolkar ³ N.M. ^{1,2,3} College of Agriculture, V.N.M.K.V., Parbhani.	harshadagalande1996@gmail.com	Oral
15.	PHYSIOLOGICAL EVALUATION OF RUBBER CLONES IN ABANDONED TEA GROWING AREAS OF DOOARS BELT OF NORTH BENGAL	J. Sarkar ^{1*} , G. Das ² and MD Jessy ³ ¹ Regional Research Station Rubber Research Institute of India Nagrakata, Jalpaiguri, West Bengal – 735 225 ² Regional Research Station Rubber Research Institute of India Rubber Board, Guwahati, Assam – 781 006 ³ Rubber Research Institute of India Rubber Board, Kottayam, Kerala – 686 009	sarkar@rubberboard.org.in	Oral
16.	ERI PUPA BASED DIET FOR IMPROVING NUTRITIONAL STATUS OF NORTHEAST INDIA	<u>Mahesh DS</u> , Raisa Begum, Arunkumar KP, James Keisa and Vijayakumari KM Central Muga Eri Research and Training Institute (CMERTI), Central Silk Board, Ministry of Textiles, Govt. of India, Lahdoigarh–785700, Jorhat, Assam (India)	maheshds.csb@gov.in	Oral
17.	IMPACT OF PROLONGED SUMMER DUE TO CLIMATE CHANGE ON TROPICAL TASAR SILKWORM	N. B. Chowdary* and A. Venugopal Basic Tasar Silkworm Seed Organisation, CSB, Bilaspur-495 112, Chhattisgarh	chowdarynb21@gmail.com	Oral

	SEED PRODUCTION IN INDIA			
18.	PHYTOSTEROLS PROFILE OF TEA (CAMELLIA SINENSIS L.) BI-CLONAL SEED STOCKS OIL OF NORTH EAST INDIA	P. K. Patel ^{a*} , R. Sarma ^a , B. Gogoi ^a , S. K. Singh ^a , S. Roy ^a , J. K. Saikia ^a , N. J. Neog ^a , N. Handique ^a , B.Das ^b and A. Babu ^a ^a Department of Plant Physiology and Breeding, Tocklai Tea Research Institute, Tea Research Association, Jorhat-785008, Assam, India ^b North Bengal Regional R & D Centre, Tea Research Association, Nagrakata, Jalpaiguri-735 225, W.B, India	pradeepk.bhu@gmail.com	Oral
19.	HYPOSIDRA TALACA NPV (HYTANPV) - A POTENTIAL BACULOVIRUS FOR THE EFFICIENT CONTROL OF BLACK INCH WORM, HYPOSIDRA TALACA WALKER (GEOMETRIDAE: LEPIDOPTERA), A MAJOR PEST OF TEA CAMELLIA SINENSIS (THEACEAE)	Bhabesh Deka ^{1*} , Azariah Babu ² , Suman Sarkar ¹ ¹ North Bengal Regional R & D Centre, Nagrakata, West Bengal -735225 ² Tocklai Tea Research Institute, Jorhat, Assam-785008	bhabesh.deka@gmail.com	Oral
20.	EXPLORING THE SOCIO-ECONOMIC CONDITION AND MENSTRUATION HYGIENE BEHAVIOR OF FEMALE TEA ESTATE WORKERS: A STUDY ON TEA ESTATES OF MOULVIBAZAR, BANGLADESH- REDOWAN ISLAM PALASH ¹	Redowan Islam Palash MSS in Sociology, Department of Sociology, Bangladesh University of Professionals (BUP) House No-55/2/4, South Mugda, Dhaka, Bangladesh. Post Code: 1214 redowan.islam	palash@gmail.com	Oral
21.	SERI-AGRO-FORESTRY CONVERGENCE FOR PROMOTION OF VANYA SERICULTURE IN NORTHEAST INDIA	Dharmendra Kumar Jigyasu ^{1*} , Aftab A. Shabnam ¹ , Om Prakash Patidar ¹ , Amit Kumar ² and K.M. Vijayakumari ¹ ¹ Central Muga Eri Research & Training Institute, CSB, Lahdoigarh, Jorhat-785700,	jigyasu2012@gmail.com	Oral

		Assam ² Central Sericultural Research & Training Institute, CSB, Mysuru- 570 008, Karnataka		
22.	PERFORMANCE OF OAK TASAR SILKWORM BREEDS C-27 & RTRS-1 IN NORTH-WESTERN INDIA: A SUSTAINABLE LIVELIHOOD SOURCE	JagadajyotiBinkadakatti*, Vishal Mittal, A. S. Verma and K. Sathyanarayana Central Tasar Research and Training Institute, Piska-nagari, Ranchi-835303, Jharkhand, India	jagadajyothi@gmail.com	Oral
23.	HOST PLANTS, ENVIRONMENTAL FACTORS, DISEASES AND PESTS LIMIT MUGA SILKWORM (ANTHERAEA ASSAMENSIS HELFER) FARMING – A CRITICAL ANALYSIS	M. Chutia, L Guha and K. Neog Muga Eri Silkworm Seed Organization, Guwahati, Assam-781022, India	kartik.neog@gmail.com	Oral
24.	ERI PUPA BASED DIET FOR IMPROVING NUTRITIONAL STATUS OF NORTHEAST INDIA	<u>Mahesh DS</u> , Raisa Begum, Arunkumar KP, James Keisa and Vijayakumari KM Central Muga Eri Research and Training Institute (CMERTI), Central Silk Board, Ministry of Textiles, Govt. of India, Lahdoigarh–785700, Jorhat, Assam (India).	maheshds.csb@gov.in	Oral
25.	IMPACT OF PROLONGED SUMMER DUE TO CLIMATE CHANGE ON TROPICAL TASAR SILKWORM SEED PRODUCTION IN INDIA	N. B. Chowdary* and A. Venugopal Basic Tasar Silkworm Seed Organisation, CSB, Bilaspur-495 112, Chhattisgarh	<u>chowdarynb21@gmail.com</u>	Oral
26.	EFFECT OF LOCAL CLIMATE IN FIRST GRAINAGE OF TROPICAL TASAR SILK MOTH ANTERAEA MYLITTA DRURY	Soundappan S Mohanraj ^{1,*} , N. B. Chowdary ² , A. Venugopal ² , ¹ Central Tasar Silkworm Seed Station, Central Silk Board, Kargi Road, Kota, Bilaspur – 495113, Chhattisgarh, India ² Basic Tasar Silkworm Seed Organisation, Central Silk Board, Pendari, Bilaspur –	<u>mohanrajhcu@gmail.com</u>	Oral

		495112, Chhattisgarh, India		
27.	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	keshav.adhikari2008@gmail.com	Oral
28.	PIPER AGROFORESTRY IN THE INDIAN HIMALAYAS: DECIPHERING INDIGENOUS PRACTICES, POLICIES AND INCENTIVES TO SUPPORT SUSTAINABLE LAND MANAGEMENT	Animekh Hazarika ¹ , Demsai Reang ^{1,2} and Arun Jyoti Nath ¹ ¹ Department of Ecology and Environmental Science, Assam University, Silchar, 788011, Assam, India, ² Department of Environmental Science, Royal Global University, Guwahati-781035, Assam, India	animekhazarika123@gmail.com demn000@gmail.com arunjyotinath@gmail.com	Oral
29.	DEPLETING FOREST COVER, CONSERVATION MEASURES AND SACRED GROVES IN NORTHEAST INDIA	Chandra Kala Magar Department of Geography, B.Borooah College, Guwahati-781007	Chandrakala03magar@gmail.com	Oral
30.	ABUNDANCE AND DIVERSITY OF FRUIT FLIES (DIPTERA: TEPHRITIDAE) IN CITRUS ORCHARDS IN SINDHULI, NEPAL	D. Adhikari ^{1,2,*} , R. B. Thapa ¹ , S. L. Joshi ³ , J. J. Du ⁴ and S. Tiwari ¹ ¹ Agriculture and Forestry University, Nepal, ² Plant Quarantine and Pesticide Management Centre, Hariharbhawan, Lalitpur, Nepal, ³ Nepal Agricultural Research Council, Nepal and ⁴ Beijing Ecoman Biotech Co. Ltd., China	adhikari.debraj1@gmail.com	Oral
31.	ESTIMATING ECOSYSTEM CARBON STOCK AND BIOMASS OF PINE FORESTS OF MEGHALAYA	Debaaditya Mukhopadhyay ^{1*} and Gaurav Mishra ² ¹ Rain Forest Research Institute, Jorhat, Assam – 785001 ² Centre of Excellence on Sustainable Land Management, Indian Council of Forestry	debaa1995@gmail.com	Oral

		Research and Education, Dehradun-248 006, India		
32.	ECO-FRIENDLY ASPECTS OF TREE SPECIES BEHAVIOUR TOWARDS THE TOXIC METALS	Gunjan Patil ¹ , Preety Shah ² , Ramesh ² , Abhishek Maitry ² and Damini Sharma ² Department of Forestry, Wildlife and Environmental Sciences Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G), India, Pin-495009	gunjan210315@gmail.com	Oral
33.	THE LEGISLATIVE FRAMEWORK ON BIODIVERSITY CONSERVATION: BANGLADESH PERSPECTIVES	Laskar Muqsur Rahman Wildlife Conservation Society, Bangladesh	laskarmr@yahoo.com	Oral
34.	ECOLOGICAL STUDY ON THE RELATIONSHIP BETWEEN PLANT BIODIVERSITY AND SOIL NUTRIENT IN A HILLY TEMPERATE FOREST OF CENTRAL NEPAL	² Ram S Dani, ² Chitra B Baniya* ¹ Trichandra Multiple Campus, Ghantaghar, Kathmandu, Nepal ² Central Department of Botany, Tribhuvan University, Kirtipur, Kathmandu, Nepal	ram.dani@trc.tu.edu.np	Oral
35.	HIMALAYAN WILD FOODS OF AS NATURE-BASED SOLUTION FOR FOOD AND NUTRITIONAL SECURITY IN CHANGING CLIMATE	Sandeep Rawat,* Puja Acharya, Devendra Kumar, Mayank Joshi, Indra D. Bhatt Sikkim Regional Centre, G.B. Pant National Institute of Himalayan Environment, Gangtok, Sikkim, India	sandeep_rawat15@rediffmail.com	Oral
36.	POTENTIAL OF MYRICA ESCULENTA IN IMPROVING LIVELIHOOD OF RURAL WOMEN IN NORTH-WESTERN HIMALAYAS	Smriti Panwar ^{1*} , H.S. Ginwal ^{1#} , Girish Chandra ² and Maneesh S. Bhandari ^{1¥} ^{1*} Division of Genetics and Tree Improvement, Forest Research Institute, P.O. - I.P.E., Kaulagarh Road, Dehradun – 248 195, Uttarakhand. ^{1¥} Division of Genetics and Tree Improvement, Forest Research Institute, P.O. - I.P.E., Kaulagarh Road, Dehradun – 248 195, Uttarakhand. ^{1#} Division of Genetics and Tree	smriti.panwar5991@gmail.com maneesh31803@gmail.com ginwalhs@icfre.org gchandra23@yahoo.com	Oral

		Improvement, Forest Research Institute, P.O. - I.P.E., Kaulagarh Road, Dehradun – 248 195, Uttarakhand. ² Department of Statistics, University of Allahabad, Prayagraj (Allahabad), Uttar Pradesh – 211 0021		
37.	DOES TRADITIONAL AGRISILVICULTURAL SYSTEMS BENEFIT FARMERS?- A REVELATION BY BENEFIT-COST ANALYSIS OF GREWIA OPTIVA ON PEA FIELDS OF CHAKRATA TEHSIL OF UTTARAKHAND, INDIA	Tara Kumari ^{1#} , Sohom Seal ² , R. Nautiyal ³ , Devendra Kumar ¹ ¹ Forest Research Institute, Dehradun (Uttarakhand) -248006 ² Wildlife Institute of India, P.O. Chandrabani, Dehradun-248001, India. ³ Institute of Green Economy (IGREC) C2/24, First floor, Lord Krishna Enclave, Sushant Lok I, Gurugram 122009	tararishiforestry@gmail.com	Oral
38.	RHIZOBACTERIA TRIGGERS INDUCTION OF SYSTEMIC RESISTANCE IN BHUT JOLOKIA PLANTS AND DEFENDS AGAINST COLLAR ROT DISEASE	Priyanka Gogoi 1,2, Tridip Phukan1,2, Ratul Saikia*1,2 1Biological Sciences and Technology Division, CSIRNorth East Institute of Science and Technology, Jorhat 785006, Assam, India 2Academy of Scientific and Innovative Research, Kamala Nehru Nagar, Sector 19, Ghaziabad 201002, Uttar Pradesh, India	ratul19saikia@gmail.com	Oral
39.	EFFECT OF MULCHING ON YIELD OF LARGE CARDAMOM (AMOMUM SUBULATUM ROXB.)	T N Deka1*, R Chhetri 1 , S S Bora 1 , D Ajay 1 and A B Remashree2 1 Indian Cardamom Research Institute, Regional Research Station, Tadong, Gangtok -737 102 2 Indian Cardamom Research Institute, Myladumpara, Kerala- 685 509	tikendrandeka@gmail.com	Oral
40.	WHITE FURLED LEAF DISORDER OF LARGE CARDAMOM (AMOMUM SUBULATUM ROXB.); AN INDICATOR OF SOIL NUTRIENT	D.Ajay1 , S.S. Bora1 , T.N. Deka1 ,M.K. Sherpa1 , S.L. Bhutia1 and A.B. Remashree2 1 Indian Cardamom Research Institute, Regional Station, Spices Board,	ajaydiva@gmail.com	Oral

	DEFICIENCY	Tadong, Sikkim - 737 102 2 Indian Cardamom Research Institute, Myladumpara, Kerala- 685509		
41.	PERFORMANCE OF GINGER GENOTYPES FOR GROWTH, YIELD AND DISEASE INCIDENCE	Suchand Datta, Ram Krishna Sarkar* and Soumendra Chakraborty Uttar Banga Krishi ViswavidyalayaPundibari, Cooch Behar, West Bengal-736165, India	sarkar_ram@rediffmail.com	Oral
42.	STUDY OF CAPSULE BORER, AN EMERGING PEST OF LARGE CARDAMOM (AMOMUM SUBULATUM ROXB.) IN SIKKIM HIMALAYAN REGION, INDIA	S. S. Bora1*, Ajay D. 1, T.N. Deka1 , S. L. Bhutia1 , L.O. Pakhrin1 and A. B. Remashree2 1 Indian Cardamom Research Institute, Regional Research Station, Tadong, Gangtok -737102 2 Indian Cardamom Research Institute, Myladumpara,	sasankabora@gmail.com	Oral
43.	INSECT FORAGER COMPLEX AND FORAGING BEHAVIOUR OF HONEY BEES, APIS CERANA FABRICIOSA(APIDAE: HYMENOPTERA) IN CORIANDER	Siddhartha S. saikia, M.K. Deka and Ankita Saikia Department of Entomology, Assam Agricultural University, Jorhat	ankita.saikia.amj22@aau.ac.in	Oral
44.	RHIZOBACTERIA TRIGGERS INDUCTION OF SYSTEMIC RESISTANCE IN BHUT JOLOKIA PLANTS AND DEFEND AGAINST COLLAR ROT DISEASE	Priyanka Gogoi 1,2, Tridip Phukan1,2, Ratul Saikia*1,2 1Biological Sciences and Technology Division, CSIRNorth East Institute of Science and Technology, Jorhat 785006, Assam, India 2Academy of Scientific and Innovative Research, Kamala Nehru Nagar, Sector 19, Ghaziabad 201002,Uttar Pradesh, India	ratul19saikia@gmail.com	Oral
45.	JUTE AGRO TEXTILES AS A MULCHING TOOLS FOR IMPROVING YIELD OF RED CHERRY PEPPER (DALLEKHORSANI) IN INCEPTISOL OF SIKKIM	Basant Tamang*, Sanjay Debnath, I.P. Shivakoti, NissiGurung and TsheringDorjeeTamangKrishiVigyan Kendra, Namthang, South Sikkim737126	tnasab91@gmail.com	Oral

46.	EFFECT OF DIETARY SUPPLEMENTATION OF GINGER AND WHITE TURMERIC ON BLOOD-BIOCHEMICAL PROFILE IN LAYING HEN IN HEAT STRESS CONDITION	Vinay Singh ^{1*} , Asit Chakrabarti ¹ , R.S. Godara ² , G. Kadirvel ³ , Anup Das ¹ , Lopamudra Sahoo ¹ , Mahak Singh ⁴ , Lembisana Devi ¹ , Biswajit Das ¹ and Prasenjit Debnath ¹ 1ICAR Research complex for NEH Region, Tripura centre, Lembucherra-799210 2 ICAR-Central Sheep and Wool Research Institute, Avikanagar, Rajasthan-304501 3CAR Research complex for NEH Region, Umiam, Meghalaya-793103 4 ICAR Research complex for NEH Region, Nagaland centre, Medziphema, Nagaland - 797106	vinvet1@gmail.com	Oral
47.	Biodiversity and sustainable coffee cultivation under changing climatic condition	Dr. Jeena Devasia, Head, Plant physiology CCRI, Chikmagalur, Karnataka, GoI	Jeena.devasia@gmail.com	oral
48.	GYNANDROMORPHISM IN SERICULTURE	Bidisha Kashyap Assam Agricultural University	bidishakashyup@gmail.com	Poster
49.	ROLE OF COFFEE CONSERVATION OF BIODIVERSITY AND SUSTAINABLE DEVELOPMENT IN NORTH EAST INDIA	Atiqur Rahman Bora and D. Sunil Babu Regional Coffee Research Station, R. V. Nagar-531133, Andhra Pradesh	atiqurrb@gmail.com	Poster
50.	DENDROCHRONOLOGICAL POTENTIAL OF TREE RING SPECIES AND THEIR RELATIONSHIP WITH CLIMATIC VARIABLES FROM EASTERN HIMALAYA: STATUS & FUTURE PROSPECTS	Wagmare Balraju ¹ , *Rajesh Joshi ¹ , Rupesh Dhyani ² , J C Kuniyal ² ¹ G. B. Pant National institution of Himalayan and Environment, Sikkim Regional Centre, Pangthang, Gangtok - 737101, Sikkim ² G. B. Pant National institution of Himalayan and Environment, Kosi-Katarmal, Almora-263634, Uttarakhand	dr.rajeshjoshi@gmail.com	Poster

51.	SILK ROUTE AND ITS EFFECT ON INDIAN ECONOMY	Bidyut Bikash Dutta Assam Agricultural University Jorhat-13, Pin code- 785640	bidyutbikashdutta615@gmail.com	Poster
52.	CTC GREEN TEA PROCESSING AND ITS EFFECT ON PHYTOCONSTITUENTS	Diganta Kumar Bora, Dr. Rana Pratap Bhuyan, Dr. Aditi Smith Gogoi, Mr. Manuranjan Gogoi Dept. of Tea Husbandry & Technology, AAU, Jorhat – 13		Poster
53.	NEOTERIC PERSPECTIVES IN MANAGEMENT OF PESTS AND DISEASES IN TASAR SERICULTURE	Hanamant Gadad*, D.I.G. Prabhu, J. Singh, Vishal Mittal, JP Pandey and S. Kutala Central Tasar Research and Training Institute, Ranchi 835 303, Jharkhand, India	hsgadad@gmail.com	Poster
54.	PERFORMANCE OF OAK TASAR SILKWORM BREEDS C-27 & RTRS-1 IN NORTH-WESTERN INDIA: A SUSTAINABLE LIVELIHOOD SOURCE	Jagadajyoti Binkadakatti*, Vishal Mittal, A. S. Verma and K. Sathyanarayana Central Tasar Research and Training Institute, Piska-nagari, Ranchi-835303, Jharkhand, India	jagadajyothi@gmail.com	Poster
55.	DEVELOPMENT OF METHODOLOGY FOR THE PRODUCTION OF HIGH-PURITY BLACK TEA POLYPHENOLS: THEAFLAVINS	<u>Kaberi Rajkhowa</u> , Himangshu Deka, Santanu Sabhapondit, Podma Pollov Sarmah* Biochemistry Department, Tocklai Tea Research Institute, Jorhat, Assam, 785008	p.pollov@tocklai.net	Poster
56.	ADOPTION OF IMPROVED TECHNOLOGY FOR SUSTAINABLE FARMING OF LARGE CARDAMOM IN NAGALAND	Kitila Walling ¹ & Kaushal Kumar Jha ² 1-Research Scholar 2- Prof. & Head, Department of Agricultural Extension, School of Agricultural Sciences and Rural development, Nagaland University, Medziphema Campus, Nagaland – 797106	kitiwalling4567@gmail.com	
57.	REARING AND REPRODUCTIVE PERFORMANCE OF BORDUAR	Lalitha Natarajan ^{1*} , Arunima Nath ¹ , Hridya Hemachandran ² and	lalitha.nm@gmail.com	Poster

	ECORACE OF ERI SILKWORM SAMIA RICINI (DONOVAN) FED ON DIFFERENT HOST PLANTS	K.M. Vijayakumari ³ 1. Eri Basic Seed Farm, CSB, Topatoli, Assam, India-782403 2. Muga Eri Silkworm Seed Organization, CSB, Khanapara, Assam, India- 781022 3. Central Muga and Eri Research and Training Institute, Lahdoigarh, Jorhat, Assam – 785700		
58.	INTERCROPPING IN TEA	Laxmipriya Saikia Department of Tea Husbandry and Technology, Assam Agricultural University, Jorhat	mipriyasaikia6@gmail.com	Poster
59.	BIOCHEMICAL QUALITY PARAMETERS OF MADE TEA BEFORE AND AFTER INFESTATION BY HELOPELTIS THEAVORA	Poljeet Goswami ¹ , Priyanka Das ¹ , Ananta Madhab Baruah ¹ , Manuranjan Gogoi ² , Santanu Sabhapondit ³ and Kritideepan Sarmah ^{1*} ¹ Department of Biochemistry and Agricultural Chemistry, Assam Agricultural University, Jorhat-13 ² Department of Tea Husbandry and Technology, Assam Agricultural University, Jorhat-13 ³ Department of Biochemistry, Tocklai Tea Research Institute, Jorhat-08	kritideepan.sarmah@aau.ac.in	Poster
60.	FORMS OF SOIL ACIDITY AND THEIR DISTRIBUTION IN TEA PLANTATION SOILS: A DESCRIPTIVE ANALYSIS UNDER CHANGING SCENARIO OF CLIMATE CHANGE	¹ Prerna Hazarika, Darshana Sarmah, Samina Safique, Jintu Dutta and Harisadhan Malakar Soils Department, Tocklai Tea Research Institute, Tea Research Association, Jorhat - 785008, Assam	prernahazarika77@gmail.com	Poster

61.	REARING AND REPRODUCTIVE PERFORMANCE OF BORDUAR ECORACE OF ERI SILKWORM SAMIA RICINI (DONOVAN) FED ON DIFFERENT HOST PLANTS	<p>Lalitha Natarajan^{1*}, Arunima Nath¹, Hridya Hemachandran² and K.M. Vijayakumari³</p> <p>1. Eri Basic Seed Farm, CSB, Topatoli, Assam, India-782403 2. Muga Eri Silkworm Seed Organization, CSB, Khanapara, Assam, India- 781022</p> <p>Central Muga and Eri Research and Training Institute, Lahdoigarh, Jorhat, Assam – 785700</p>	lalitha.nm@gmail.com	Poster
62.	PHYSIOLOGICAL AND BIOCHEMICAL CHANGES IN TEA PLANT [CAMELLIA SINENSIS (L.) KUNTZE] IN RESPONSE TO RED SPIDER MITE DAMAGE AND INVOLVEMENT OF A DEFENSIVE STRATEGY	<p>Sarbani Roy¹ * Pradeep Kumar Patel¹ and Chandra Ghosh²</p> <p>¹Department of Plant Physiology & Breeding, Tocklai Tea Research Institute, Jorhat, Assam 785008, India ²Department of Tea Science, University of North Bengal. P.O. N.B.U., Raja Rammohunpur, Siliguri - 734 013, West Bengal, India</p>	roys12345@gmail.com	Poster
63.	APPLICATION OF A PORTABLE NEAR INFRARED SPECTROMETER FOR QUALITY ASSESSMENT OF CTC BLACK TEA	<p>Sirsha Naskar¹, Sayanika Banerjee¹, Manisha Hazarika², Dilip Sing¹, Santanu Sabhapondit², Sandip Sanyal², Romen Chandra Gogoi², Rajib Bandyopadhyay¹, Ajanto Kumar Hazarika^{2*}</p> <p>¹Department of Instrumentation and Electronics Engineering, Jadavpur University, Salt Lake Campus, Kolkata 700106, India</p>	a.hazarika@tocklai.net	Poster

		² Tocklai Tea Research Institute, Tea Research Association, Jorhat 785008, Assam, India.		
64.	TEA TOURISM IN ASSAM UNDER DIFFERENT ECOLOGICAL SITUATIONS	<p><u>Eimon Bhardwaj</u> Dept. of Tea Husbandry & Technology, AAU, Jorhat-785013, Pubali Neog, Dept. of Tea Husbandry & Technology, AAU, Jorhat-785013</p> <p>Rashmi Kalita, Dept. of Tea Husbandry & Technology, AAU, Jorhat-785013</p> <p>Dr. Aditi Smith Gogoi, Dept. of Tea Husbandry & Technology, AAU, Jorhat-</p> <p>Mr. Diganta Kumar Borah, Dept. of Tea Husbandry & Technology, AAU, Jorhat-</p> <p>Dr. Rana Pratap Bhuyan, AAU, Jorhat-785013</p>	eimon.bharadwaj.adj20@aa.u.ac.in	Poster
65.	STRATEGIES TO MITIGATE CLIMATE CHANGE IMPACT ON MUGA SERICULTURE ECOSYSTEM IN NORTHEAST INDIA	<p><u>Arunkumar KP</u>, Mahesh DS and Vijayakumari KM Central Muga Eri Research and Training Institute (CMERTI), Central Silk Board, Ministry of Textiles, Govt. of India, Lahdoigarh-785700, Jorhat, Assam (India).</p>	arunkallare.csb@gov.in	Poster
66.	EFFECTS OF SHADING ON THE PHYSIOLOGICAL, ANATOMICAL, AND GROWTH CHARACTERISTICS OF MATURE ASSAM TEA PLANTS	<p>ALFINA SAHIN, DHANANJAY KUMAR ^{1*}, AND RANA PRATAP BHUYAN ^{1*} ¹ Department of Tea Husbandry and Technology, Assam Agricultural University, Jorhat, 785013, India</p>	<p>rana.bhuyan@aa.u.ac.in, DK: dhananjay.kumar@aa.u.ac.in</p>	Poster

67.	GROWTH OF TEA (CAMELLIA SINENSIS) AFTER POST PRUNING OPERATION AS INFLUENCED BY NANO-UREA	*Ms. Plabita Saikia, Dept. of Tea Husbandry & Technology, AAU, Jorhat *Dr. Aditi Smith Gogoi, Dept. of Tea Husbandry & Technology, AAU, Jorhat Dr. Rana Pratap Bhuyan, Dept. of Tea Husbandry & Technology, AAU, Jorhat Mr. Manuranjan Gogoi, Dept. of Tea Husbandry & Technology, AAU, Jorhat	plabitasaikia98@gmail.com aditismith.gogoi@aau.ac.in	Poster
68.	AN INVESTIGATION INTO THE EFFECTS OF OIL FIELD EFFLUENTS ON SOIL HEALTH AND TEA (CAMELLIA SINENSIS) GROWTH	PREETISHA DUTTA 1, DHANANJAY KUMAR 1*, AND RANA PRATAP BHUYAN 1* 1 Department of Tea Husbandry and Technology, Assam Agricultural University, Jorhat, 785013, India	rana.bhuyan@aau.ac.in , dhananjay.kumar@aau.ac.in	Poster
69.	IMPACT OF OIL FIELD EFFLUENT ON SOME PHYSIOLOGICAL AND QUALITY PARAMETERS OF TEA IN THE PLANTATION OF SMALL GROWERS OF DIBRUGARH DISTRICT OF ASSAM	Pubali Neog Dept. of Tea Husbandry & Technology, AAU, Jorhat-785013 Eimon Bharadwaj, Dept. of Tea Husbandry & Technology, AAU, Jorhat-785013 Rashmi Kalita, Dept. of Tea Husbandry & Technology, AAU, Jorhat-785013 Diganta Kr. Borah, Dept. of Tea Husbandry & Technology, AAU, Jorhat-785013 Dr. Mridul Deka, Tea Husbandry & Technology, AAU, Jorhat-785013 Dr. Rana Pratap Bhuyan, AAU, Jorhat-785013	pubali.neog.adj20@aau.ac.in	Poster

70.	GYNANDROMORPHISM IN SERICULTURE	Bidisha Kashyap, Assam Agricultural University, Jorhat-13	bidishakashyup@gmail.com	Poster
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73.	REARING AND REPRODUCTIVE PERFORMANCE OF BORDUAR ECORACE OF ERI SILKWORM SAMIA RICINI (DONOVAN) FED ON DIFFERENT HOST PLANTS	Lalitha Natarajan ^{1*} , Arunima Nath ¹ , Hridya Hemachandran ² and K.M. Vijayakumari ³ 1. Eri Basic Seed Farm, CSB, Topatoli, Assam, India-782403 2. Muga Eri Silkworm Seed Organization, CSB, Khanapara, Assam, India- 781022 Central Muga and Eri Research and Training Institute, Lahdoigarh, Jorhat, Assam – 785700	lalitha.nm@gmail.com	Poster
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76.	CONSERVATION AND MANAGEMENT OF AMENTOTAXUS ASSAMICA (ASSAM CATKIN YEW) IN ARUNACHAL PRADESH, INDIA	Genius Teron ^{1,2*} and Ashish Paul ¹ ¹ Department of Forestry, North Eastern Regional Institute of Science and Technology (Deemed to be University), Nirjuli-791109, Arunachal Pradesh, India. ² EDGE of Existence Programme, Zoological Society of London, Regent's Park, London, NW1 4RY, United Kingdom	<u>teron.genius@gmail.com</u>	Poster
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78.	CARBON FARMING IN AGROFOREST A BOON, OR BOONDOGGLE FOR S AND THE ENVIRONMENT	Pratishruti Behera ^{1*} , Abhisek Rath ² , Tilak Prasad Panika ³ and Minakshi Bezbaruah ⁴ ^{*1} Department of Agronomy, College of Agriculture, AAU, Jorhat-13 ² Department of Plant Pathology, College of Agriculture, AAU, Jorhat-13 ³ Department of Soil Science, College of Agriculture, AAU, Jorhat-13	<u>pshruti.behera@gmail.com</u>	Poster

		⁴ Department of Agronomy, College of Agriculture, AAU, Jorhat-13		
79.	ASSESSMENT OF SOIL ORGANIC CARBON STOCK IN TROPICAL WET EVERGREEN FOREST OF NORTH EAST INDIA: A CASE STUDY OF DIHING PATKAI NATIONAL PARK	Pooja Dasgupta*, Manimoy Das, Dhruba Jyoti Das, Girish Gogoi, Abhijit Medhi, Saurabh Tamang and Pradeepen Rai Rain Forest Research Institute, Sotai, Jorhat-785010, Assam, India	poojadasgupta.tsk@gmail.com	Poster
80.	AGROFORESTRY FOR MITIGATING CLIMATE CHANGE IMPACTS	Sarat Sekhar Bora ^{1*} , Milon Jyoti Konwar ² , Karishma Borah ³ , Ranjit Kumar Saud ⁴ , Karuna Kanta Sharma ⁵ ¹ KVK, Udalguri, ² RARS, Titabor, ³ NAHEP, ⁴ ADEE (P&I), ⁵ , AICRP on IFS, Assam Agricultural University, Jorhat-785013, Assam	saratsekharbora@gmail.com	Poster
81.	ADAPTING TO CRISIS: A STUDY ON THE IMPACT OF COVID-19 PANDEMIC ON LOCAL BUSINESSES NEAR AN ECOTOURISM AREA IN AND AROUND MANAS NATIONAL PARK	Saurav Baruah*, Ajay Kumar** and Dhruba Jyoti Das* Forest Ecology and Climate Change Division, Rain Forest Research Institute, Jorhat-785001 Silviculture and Forest Management Division, Rain Forest Research Institute, Jorhat-785001	zenithsaurav@gmail.com	Poster
82.	SUITABILITY OF AVAILABLE LOCAL PLANT RESOURCE AS LAC HOSTS	Tanjil Rahman ¹ , Purnima Das ² , Anjumoni Devei ³ ^{1,2,3} Department of Entomology Assam Agricultural University, Jorhat, Assam	tanjilrahman6766@gmail.com	Poster
83.	ESTIMATION OF ABOVE GROUND BAMBOO BIOMASS CARBON STOCK OF TROPICAL FORESTS IN NAGALAND- A CASE STUDY OF MOKOKCHUNG DISTRICT	Temjensola Jamir* and Dhruba J. Das ICFRE, Rain Forest Research Institute- Jorhat, Assam	smmgaa@gmail.com	Poster

84.	CARBON SEQUESTRATION BY JACKFRUIT TREE IN JACKFRUIT BASED AGROFORESTRY SYSTEM	R. Bezbaruah ¹ , A.A.Ahmed ² , J.P Baruah ³ ¹ Agronomy, AAU,HRS,Kahikuchi,Guwahati-781017 ² AAU,HRS,Kahikuchi,Guwahati-781017 ³ AAU,HRS,Kahikuchi,Guwahati-781017	ranjita.bezbaruah@aau.ac.in	Poster
85.	POTENTIAL MANAGEMENT AND CULTIVATION PRACTICES FOR SUSTAINABLE PRODUCTIVITY OF LARGE CARDAMOM (AMOMUM SUBULATUM ROXB.) IN EASTERN HIMALAYA	Kailash S. Gaira* and Rajesh Joshi GB Pant National Institute of Himalayan Environment, Sikkim Regional Centre, Pangthang, Post Box 24, Gangtok, Sikkim-737101	kailash_gaira@rediffmail.com ;kgaira@gmail.com	poster
86.	EFFECT OF VARIOUS PACKAGING SYSTEMS ON SHELF- LIFE OF NAGA MIRCHA	Aabon W Yanthan*, VeraluHesuh, AzezeSeyie and H. Kalita ICAR Research Complex for NEH Region, Nagaland Centre, Medziphema-797106, Nagaland, India	*aabon.iari@gmail.com	Poster
87.	FORMULATION AND STANDARDIZATION OF KARBI ANGLONG VARIETY GINGER AND MINT BASED MOUTH FRESHNER FOR LIVELIHOOD UPLIFTMENT AND SUSTAINABLE DEVELOPMENT OF INDIGENOUS COMMUNITIES OF ASSAM	Animesh Baruah1 ,Ranjana Deka2 1- Central Institute of Technology(CIT,Kokrajari) 2- Assam Agricultural University(AAU,Jorhat)	ranjana.deka@aa u.ac.in	Poster
88.	EXTENT OF ADOPTION OF SUSTAINABLE CULTIVATION PRACTICES AMONG TURMERIC GROWERS IN DIMAPUR, NAGALAND	Arentula. L. Longkumer1 and K. K. Jha2 Department of Agricultural Extension, School of Agricultural Sciences and Rural Development, Medziphema, Nagaland	aren2lalkr4@gmai l.com	Poster

89.	FIELD EVALUATION OF CHILLI GENOTYPES AGAINST THRIPS AND MITE	Md. Motaher Hossain* and Mohammad Tofazzal Hossain Howlader * Spices Research Centre, Bangladesh Agricultural Research Institute (BARI), Shibganj, Bogura, Bangladesh	ripon01_src@yahoo. com	poster
90.	EFFECT OF PGPR ON GROWTH PROMOTION AND DISEASE MANAGEMENT IN MENTHA (MENTHA ARVENSIS)	Anamita Sen and Dinesh Rai Department of Plant Pathology and Nematology PG College of Agriculture Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar, 848125	anamita.sen.32@gmail.co m	Poster

Panel Discussion

Role of plantation, forest and non-timber for entrepreneur development in Northeast region: way forward

Panelist :Dr. Navin Kumar Bahl , Ryntathiang , Joint Director extension

Dr. Ravindra Teron, Director, Ministry of Ayush, Pasighat

Dr. Ramen Sarma Joint Registrar, AAU, Jorhat

Ms. Arunita Phukan Yadav, Mrs. Arunita Phukan Yadav, Director, Tea Board, N.E. Zone

Dr. A.B. Rema shree, Director Research, Spices Board, Ministry of commerce and Industry, Govt. of India, Cochin

Dr. (Mrs.). Jessy M.D. Director Research, RRI, India

Dr. A. BABU, Director Tea Research Association, Tocklai Tea Research Institute, Jorhat-785008, Assam

Dr. R. P. Bhuyan, DSW, AAU Jorhat-13

Dr. Rajib Bora. RFRI,

*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. (mailid:purna.barua@aau.ac.in)