

অসম বিজ্ঞান প্রযুক্তিবিদ্যা আৰু পৰিৱেশ পৰিষদ
(বিজ্ঞান প্রযুক্তি আৰু জলবায়ু পৰিৱৰ্তন বিভাগ, অসম চৰকাৰ)

ASSAM SCIENCE TECHNOLOGY AND ENVIRONMENT COUNCIL

(Science, Technology and Climate Change Department)

BIGYAN BHAWAN
G.S. ROAD
GUWAHATI – 781005
Assam, India



Telephone : 0361-2464621
: 0361-2450646
Fax : 0361-2464617
E-mail : astec@rediffmail.com
Website : astec.assam.gov.in

No. ASTEC/S&T/1614/12/2020-21/2183

Date: 28/10/21

ORDER

The following list of projects has been shortlisted for final presentation during Expert Committee Meeting for selection of projects to be supported under the scheme, “Innovation, Technology Generation and Awareness (ITGA)” of S&T Division, ASTEC.

Sl. No.	Project Name	Principal Investigator
1.	Multi-purpose solar heating system	Dr. Deba Kumar Mahanta, Assistant Prof, Dept. of Electrical Engineering, Assam Engineering College
2.	Narrow ultraviolet beam optical system for vitiligo treatment	Dr. Deba Kumar Mahanta, Assistant Prof, Dept. of Electrical Engineering, Assam Engineering College
3.	Development of a smart bowl/container for curd making	Dr. M. R. Mahboob Assistant Professor, Electrical Engineering Department, School of Engineering, Tezpur University, Sonitpur, Assam-784028
4.	Processing and Characterization of Vegan Leather Made from Tea Leaf Bacterial Cellulose	Dr. Girija T R Associate Professor and Head, Department of Civil Engineering School of Technology, Assam Don Bosco University Azara, Guwahati 781017
5.	Green power integrated smart system for Arsenic removal from drinking water by Arsiron Nilogon method	Dr. Manashita Borah Assistant Professor, Department of Electrical Engineering, Tezpur University, Assam
6.	Design and Development of Multipurpose Hybrid Dryer with Solar and Biomasses for Rural Application	Dr. Monoj Bardalai, Assistant Professor, Mechanical Engineering, Tezpur University, Napaam, 784028, Assam
7.	Sustainable Building Materials Derived from Fungii	Mr. Gitartha Kalita Department of Civil Engineering School of Technology, Assam Don Bosco University Azara, Guwahati, India – 781017
8.	Design of a Trial product of a Low Cost Anti Snoring Device	Jibon Saikia Department of Physics J B College

9.	Development of Multifunctional Seed Sowing Machine for Agricultural Purpose	Pulakesh Chetia Assistant Professor, Assam down town University,
10.	Design and develop an electric bicycle/bike with stationed renewable super charging and parking arrangement	Buildtech Engineers 2nd floor, Subham Swaraj Sadan, VIP Road, Chachal Opp. HP Petrol Pump, Sixmile, Guwahati - 781022, Assam
11.	Design and Development of a futuristic writing device	Dr Gouri Goutam Borthakur Assistant Professor, Jorhat Institute of Science and Technology, Cheniamguri Sotai, Jorhat -10, Assam
12.	An ANN-based Smart Flood Surveillance System	Dr. Ratul Kumar Baruah, Associate Professor, Department of Electronics & Communication Engineering, Tezpur University, Napaam - 784028, Assam
13.	Design and development of a low-cost domestic device for rapid detection of bovine subclinical mastitis	Dr. Abhijit Deka Assistant Professor, Department of Veterinary Pathology, TVCC, CVSc, Assam Agricultural University, Khanapara, Guwahati, Assam (781022)
14.	Design innovation of briquette burning stove for household and commercial use	Dr. Bijoylaxmi Bhuyan, Assistant Professor, Department of Family Resource Management and Consumer Science Faculty of Community Science, Assam Agricultural University, Jorhat-13
15.	Design and development of a portable restraining device for pigs	Dr. Dhruvajyoti Borpujari, Assistant Professor, Teaching Veterinary Clinical Complex, College of Veterinary Science, Assam Agricultural University, Khanapara 22
16.	Life Cycle Analysis of Advanced Biofuel from Non-edible Oil Feedstock of North-East India	Dr. Plaban Bora, Assistant Professor, Department of Energy Engineering, Assam Science and Technology University, Jalukbari, Guwahati-13, Assam
17.	Fabrication of Solar Photovoltaic Integrated Electrolyzer (SPIE) for Clean Energy production	Dr. Vikas Verma, Assistant Professor, Department of Energy, Tezpur University, Tezpur 784 028, Assam
18.	Non-thermal processing of Assam lemon juice using ozone processing	Nishant R Swami Hulle Assistant Professor, Department of Food Engineering and Technology, Tezpur University, Tezpur, Assam 784028
19.	Preparation of oral phytochemical formulation against respiratory and gut diseases of poultry	Sanjib Khargharia Asst Prof, LCVSc, AAU, Joyhing, North Lakhimpur

20.	Development of indigenous plant oil based soaps for livelihood security and employment generation in Assam	Dr. Nirmala Devi Principal, Dona International Institute of Assam, Azara, Guwahati
21.	Synthesis of organic polymer based nanocomposite and its application in toxic heavy metals remediation of drinking water	Dr. Md. Dilwar Alam Khan Asst. Professor Department of Chemistry S. S. College, Hailakandi, Assam-788151
22.	Combination drug technology for improved health care	Dr. Bipul Sarma Department of Chemical Sciences, Tezpur University, Tezpur-784028, Assam
23.	Quality evaluation of some ethnic traditional food of Assam and their quality control using bacteriocin producing lactic acid bacteria	Archana Talukdar, PhD Assistant Professor (Stage 2), Department of Veterinary Public Health, College of Veterinary Science, Assam Agricultural University Khanapara, Guwahati-22
24.	Technology development for enhanced and widespread cultivation of 'Bira jora' and 'Sokola Tenga' and untapping their economic prospects	Dr. Arjun Adhikari Assistant Professor, Deptt. of Botany, M.C. College, Barpeta, Assam 781301
25.	Development of an Immunity-booster Functional Meat Product from Kadaknath Chicken incorporated with Indigenous Herbs	Dr. Deepshikha Deuri, Junior Scientist (LPT), AICRP on PHET, Khanapara Centre Dept. of Livestock Products Technology Faculty of Veterinary Science, AAU, Khanapara, 781 022
26.	Development of goat bladder from abattoir as pharmacologic tool for incontinence studies	Dilip Kumar Deka, Professor of Pharmacology, CVSc, AAU, Khanapara, Guwahati-22
27.	Novel and cost-effective technology for organoleptic preservation and long duration storage of the heritage Assamese rice beverage "Apong" for commercialization	Dr. Dipankar Kalita, Innovator, Institute of Advanced Study in Science and Technology (IASST), Paschim Boragaon, Garchuk, Guwahati, Assam 781035
28.	Iron enrichment and phyto-preservation of traditional pork products of Mising tribe of Assam and its technology up-scaling for commercialisation	Dr. Kuleswan Pame, Assistant Professor Department of Livestock Product Technology Lakhimpur College of Veterinary Science Assam Agricultural University Joyhing, North Lakhimpur -787051
29.	Application of Molecular, Microscopic and Ultrastructural Techniques on Study of Body Hair for Species Identification of Wild Animals of Assam	Prof. (Dr.) Munmun Sarma, Deptt. of Anatomy & Histology, College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati PIN-781022, Assam
30.	Quest for anti-diabetic drugs: Characterization of bioactive compounds isolated from minor fruits of <i>Syzygium nervosum</i> and <i>Syzygium assamicum</i>	Dr. Namita Nath Associate Professor Department of Botany, Gauhati University. Guwahati, Assam

31.	Hyphenated technology driven analytical methods to validate the active ingredients in traditional medicines of Assam	Dr. P. Radhakrishnanand Associate Professor, National Institute of Pharmaceutical Education & Research-Guwahati, Changsari, Silla Village, Guwahati, Assam-781101
32.	Use of plastination technique in teaching Macroscopic Veterinary Anatomy	Dr Jiten Rajkhowa, Assistant Professor, CVSc. Khanapara-22
33.	The Nature of Adaptability of Bio degradable Sanitary Pads Among the Women	Dr Polakshi Bhattacharyya Baruah, Assistant Professor, Department of Economics, Assam Don Bosco University
34.	Design and development of external orthopaedic devices (Orthoses and Prostheses) for animals	Dr Arup Das, Assistant professor, Veterinary Surgery and Radiology, Veterinary Clinical Complex, College of Veterinary Science, Assam Agricultural University, Khanapara, Ghy-22
35.	Characterization and analysis of biodegradable composites reinforced with locally available natural fibers in and around Assam	Dr. Sushen Kirtania Assistant Professor, Department of Mechanical Engineering, Tezpur University, Napam, Tezpur, Sonitpur, Assam - 784028
36.	Delineation of soils based on nutrient status and econometrics under different land uses for future sustainability in East Karbi Anglong using GIS and machine learning technique	Dr Rashmi Baruah Junior Scientist (Soil Science), Regional Agricultural Research Station, Assam Agricultural University, Diphu, Karbi-Anglong 782460 (Assam)
37.	Developing a Farmer's User Friendly Mobile Application using Participatory Epidemiological approach for Profitable Livestock farming in Assam	Dr S. A .Arif Assistant Professor Department of Veterinary Clinical Medicine, College of Veterinary Science, Assam Agricultural university, Khanapara, Assam
38.	Development of low-cost and high performance aluminum-graphite battery for rural electrification	Shyamal Kumar Das Assistant Professor Department of Physics, Tezpur University, Assam, 784028
39.	Investigation of non-thermal plasma activated water towards the beneficial effects on plants and biotic stress control	H. Bailung Prof. and Head Physical Sciences Division, Institute of Advanced Study in Science and Technology (IASST), DST, Govt. of India, Vigyan Path, Paschim Boragaon, Garchuk, Guwahati - 781035, Assam
40.	Technology generation for value added geese meat products and awareness for entrepreneurship development in Geese farming in Assam: an approach towards upgrading underestimated noble sector of poultry	Dr. Arundhati Phookan, Asst. Prof (Stage 2), Dept, of Animal Genetics and Breeding, College of Veterinary Science, Khanapara, Ghy-22

41.	Development of Environment friendly compost by utilizing post-mortem poultry carcasses as an organic fertilizer	Dr. Biswajit Dutta, Ph.D Assistant Professor (Stage: II), Department of Veterinary Pathology, College of Veterinary Science, Assam Agricultural University Guwahati-781 022 (Assam)
42.	Development of a Recombinant subunit vaccine against Swine pasteurellosis and evaluation of its immunoprotective efficacy	Dr. Deep Prakash Saikia Assistant Professor, Department of Animal Biotechnology, Faculty of Veterinary Science, Assam Agricultural University, Guwahati-781022
43.	Development of a Recombinant Protein based indirect ELISA for Cost-effective Assessment of Immune Response to Rabies Vaccine in Canine and Human	Dr. Dipak Deka, Associate Professor, Department of Animal Biotechnology, College of Veterinary Science, Khanapara, AAU, Guwahati-22, Assam
44.	Development of dermatology laboratory for diagnosis and provide therapeutic protocol for dermatological disorders in livestock and petanimals	Dr. Ditul Barman Assistant Professor, Dept. of Clinical Medicine, CVSc, AAU, Khanapara, Guwahati - 22, Assam
45.	Augmentation of boar fertility using proteomic approach in native breeds of Assam	Dr. Manna Baruti Assistant Professor PI, NECBH-DBT, College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati-22
46.	Exploring Organs/ Tissues of Slaughtered Porcine and Caprine Origin for Development of Biological Alternatives to Address Skin and Abdominal Defects	Dr. Parsha Jyoti Nath Asst. Professor Deptt. of Surgery & Radiology, College of Veterinary Science, AAU, Khanapara
47.	Designing environment friendly low cost hoof trimming crate for intensive diary animals to facilitate welfare	Dr. Raj Jyoti Deka Assistant Professor Department of Livestock Production & Management, College of Veterinary Science, AAU, Khanapara, Guwahati
48.	Development of Rapid and Cost-Effective Visible Isothermal Assay for Detection of Canine Parvovirus Infection using Polymerase Spiral Reaction	Rupam Dutta, PhD Assistant Professor, Department of Animal Biotechnology College of Veterinary Science, Assam Agricultural University Khanapara, Guwahati-22, Assam
49.	Preparation of oral phytochemical formulation against respiratory and gut diseases of poultry	Sanjib Khargharia Asst Prof, LCVSc, AAU, Joyhing, North Lakhimpur
50.	Development of technology for extraction of protein hydrolysate with anti-diabetic and antioxidant peptides from slaughterhouse waste	Dr. Santosh Upadhyay Junior Scientist (Biochem.) AICRP on PHET, Khanapara Centre Dept. of Livestock Products Technology Faculty of Veterinary Science,

	for its possible application in food industry	AAU, Khanapara, Guwahati 781 022
--	-----------------------------------------------	----------------------------------



(Dr. Jaideep Baruah)
Head i/c, S&T Division,
ASTECC