

LIST OF RECOMMENDED R&D PROJECTS FOR PRESENTATION

Sl. No	Project Code No.	Project Title	Name, Designation and full address of the P.I.
1.	R&DP23-14.	Establishing Artificial Canopy Bridge as Road Overpass to link the Fragmented Population of Golden langur in Assam	Dr. Jihosuo Biswas, Senior Scientist Conservation Himalayas, Northeast Chapter, 3F, Royal Residency, Joymoti Nagar, Pandu Guwahati-781012
2.	R&DP23-16	Synthesis of bio-waste derived bi-functional solid catalysts for one-pot esterification and transesterification of non-edible oils: process optimization using response surface methodology and kinetic study	Dr. Bishwajit Changmai Associate Professor, Department of Chemistry, Bhattadev University, Bajali, Pathsala-781325
3.	R&DP23-18	EarthWatch: A Comprehensive Environmental Data Monitoring Project	Prof. Manoranjan Kalita Director, Department of Civil engineering, Assam Don Bosco University School of Technology, Assam Don Bosco University, Azara, Ghy-17
4.	R&DP23-19	Highway Hypnosis Detection and Prevention System	Dr. Hemashree Bordoloi, Asst. Professor, Dept. of Electronics and Communication Engineering, Assam Don Bosco University School of Technology, Assam Don Bosco University, Azara, Ghy-17
5.	R&DP23-21.	Imatinib resistant mutation analysis in Chronic Myeloid Leukemia patients of Assam	Dr. Dibashree Tamuli, Assistant Professor Department of Zoology, Nalbari College Gauhati University, Guwahati-781335
6.	R&DP23-35.	Detection of pesticide residuals in tea leaves of Assam tea gardens using nanomaterial-based sensor	Dr. Rashi Borgohain, Associate Professor Department of Electronics and Telecommunication Engineering, Assam Engineering College, Jalukbari, Guwahati- 13

ANNEXURE-I

LIST OF RECOMMENDED R&D PROJECTS FOR PRESENTATION

Sl. No.	Project Code No.	Project Title	Name, Designation and full address of the P.I.
7.	R&DP23-37	Harnessing extraordinary luminescent properties of fresh water diatom frustules of North-East India for efficient photon conversion technologies	Dr. Ankur Gogoi, Assistant Professor Department of Physics, Jagannath Barooah College Barpatra Ali, Jorhat-785001
8.	R&DP23-40	Development of Advanced Computational Models for Water Level Forecasting of River Brahmaputra	Dr. Parashjyoti Borah, Assistant Professor Department of Computer Science and Engineering, Indian Institute of Information Technology Guwahati, Guwahati-15
9.	R&DP23-46	Design and Development of Small-Scale Essential Oil Distillation Unit for Extraction of Essential Oil from Locally Available Black Pepper and Mint	Dhanjit Das, Senior Scientist Engineering Science and Technology Division, CSIR-North East Institute of Science and Technology, Jorhat-785006
10.	R&DP23-49	Bioactive Enriched Black Garlic: Process Standardization for peeling, production of black garlic and its powder	Dr. Brijesh Srivastava, Professor Department of Food Engineering and Technology Tezpur University, Napaam, Tezpur-784028
11.	R&DP23-54	Design of Automated, Self-Sustaining Collision Avoidance System for Remote Railway Elephant Corridors	Dr. Kukil Khanikar, Assistant Professor (Grade 1), Department of Electronics and Communication Engineering, Indian Institute of Information Technology Guwahati (IIIT Guwahati), Bongora, Guwahati-781015
12.	R&DP23-56	Evaluation of aquatic macrophytes-based feed for improved growth and digestive physiology for sustainable aquaculture of air breathing fish species	Dr. Khangembam Bronson Kumar Assistant Professor, Department of Zoology Bodoland University, -783370
13.	R&DP23-58	Development And Evaluation of Recombinant Protein (Cap Protein)-Based Indirect Elisa Assay for Detection of Antibodies Against Porcine Circovirus (PCV) Type 2	Dr Girin Hazarika, Assistant Professor Department of Animal Biotechnology, College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati-22

ANNEXURE-I

LIST OF RECOMMENDED R&D PROJECTS FOR PRESENTATION

Sl. No.	Project Code No.	Project Title	Name, Designation and full address of the P.I.
14.	R&DP23-67	Valorization of Biomass-Derived Furfural and HMF to Value Added Chemicals over 3d-Transisiton Metal Catalysts	Dr. Kuldeep Gogoi, Assistant Professor Department of Applied Sciences, Gauhati University, Guwahati-781014
15.	R&DP23-68	Photostable and Spectrum Convertible Quantum Dot Sensitized TiO ₂ -based Nanohybrids for Photoelectrochemical and Photocatalytic Applications	Prof. Pranjal Saikia, Professor Department of Applied Sciences (Chemical Science Division), Gauhati University, Guwahati-781014
16.	R&DP23-70	Design and Development of a Mechanical paddy reaper Machine suitable for Paddy Fields of Assam, India	Bhupen Chandra Barman, PhD Research Scholar, Assam Don Bosco University, Guwahati and Asstt. Executive Engineer, Department of Agriculture, Govt of Assam., Department of Mechanical Engineering, Assam Don Bosco University, Azara Guwahati-781017
17.	R&DP23-73	Development of a Traditional Resource Based Neuroactive Molecule for Downregulation of seizure associated transcription factors	Dr. Pankaj Kalita, Assistant Professor, Department of Zoology, Eastern Karbi Anglong College, Karbi Anglong-80
18.	R&DP23-74	Biofuel from food waste	Dr. Bula Choudhury, Senior Scientist, Department of Biotechnology Guwahati Biotech Park, Amingaon, Guwahati- 781031
19.	R&DP23-76.	Exploring Aroids and Yams for Alternative Sustainable Bioethanol Production	Dr. Dipankar Borah, Assistant Professor Department of Botany, Kaliabor College, Bamgaon, Biswanath Chariali, Biswanath-784176
20.	R&DP23-83	Design, Development and Characterization of Solid Lipid Nanoparticle Encapsulated Dissolving Microneedle Patch of Few Natural Bioactive Compounds for the Treatment of Melanoma	Dr. Rabinarayan Parhi, Assistant Professor Department of Pharmaceutical Sciences Assam University, Dargakona, Silchar-788011

ANNEXURE-I

LIST OF RECOMMENDED R&D PROJECTS FOR PRESENTATION

Sl. No.	Project Code No.	Project Title	Name, Designation and full address of the P.I.
21.	R&DP23-85	Impact of brick-kiln on Toria pollinator species with special reference to honey bees	Dr. (Ms.) Karishma Das, Assistant Professor Department of Entomology, SCS College of Agriculture, Assam Agricultural University, Address: SCS College of Agriculture, Assam Agricultural University, Dhubri-783376
22.	R&DP23-97	Parametric Optimization and Fabrication of a Plastic Extruder Machine for the manufacture of Building Blocks	Kasturima Das, Research Scholar Department of Civil Engineering Assam Don Bosco University
23.	R&DP23-98	Secure Execution of Sensitive Applications by Eliminating Cache Side-Channel Attacks using Near Memory Processing Computation Paradigm	Dr. Manojit Ghose, Assistant Professor (Grade - I) Department of Computer Science and Engineering, Indian Institute of Information Technology Guwahati (IIIT Guwahati), Bongora, Guwahati-781015
24.	R&DP23-108	Therapeutically Relevant Novel Meso-Tetraaryl Metallo-Porphyrins for Light-Activated Chemotherapy	Dr. Tridib Kumar Goswami, Assistant Professor, Department of Chemistry, Gauhati University, Guwahati-781014
25.	R&DP23-110	Preparation of low-cost biological stain from natural resources for biological sciences in agroclimatic condition of Assam.	Dr. Anil Deka, Assistant Professor Department of Veterinary Anatomy & Histology, College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati-781022
26.	R&DP23-111	Studies and development of natural silks of Assam as multifunctional electronic textiles using low temperature plasma	Arup Jyoti Choudhury, Assistant Professor Department of Physics, Guwahati College, Bamunimaidan, Guwahati-781021
27.	R&DP23-113	Biochemical Investigation of Ethnocultural Tea Beverage "Phalap"	Dr. Podma Pollov Sarmah, Scientist C Department of Biochemistry, Tocklai Tea Research Institute Tea Research Association, Cinnamara, Jorhat-785008




ANNEXURE-I

LIST OF RECOMMENDED R&D PROJECTS FOR PRESENTATION

Sl. No.	Project Code No.	Project Title	Name, Designation and full address of the P.I.
28.	R&DP23-116	Development of minor millet hybrid power-based cost-effective dehusking machine for NE India and its product development	Dr Ajita Tiwari, Assistant Professor Department of Agricultural Engineering, Assam University, Silchar-788011
29.	R&DP23-122	Application of bypass nutrient technology for broiler goat meat production in Assam	Dr. Sanjib Borah, Associate Professor Department of Veterinary Physiology and Biochemistry, Lakhimpur College of Veterinary Science, Assam Agricultural University, North Lakhimpur, Assam-787051
30.	R&DP23-138.	Development of an AI-driven tool to predict PCOS in young females and assessing the preventive potential of a novel formulation comprising a few medicinal plants of Assam in an obesity-associated PCOS animal model	Dr. Manas Pratim Pathak, Asstt. Professor, Department of Pharmaceutical Science, Assam DownTown University, Guwahati- -26
31.	R&DP23-140	In vitro rapid mass propagation of Rhychosytilis Retusa (L.) Blume for commercial exploration	Dr. Ranjan Kr. Bora, Associate Professor Department of Botany, Pagjyotish College, Guwahati- 781009
32.	R&DP23-150	Development of silk-based hydrogen for carbon sequestration	Prof. Utpal Bora Centre for Environment, Department of Bioscience & Bioengineering, IIT Guwahati-781039.
33.	R&DP23-155	Ethnopharmacological survey, phytochemical profiling, antiosteoporotic potential, bone regeneration and bone healing activity in albino mice of certain plants used in traditional herbal medicinal practices	Dr. Akshay K. Haloi, Professor Department of Zoology, Bhattadev University, Bajali- 781325
34.	R&DP23-165	Impact of nutrient management through organic matter recycling on yield, yield attributing characters and soil fertility status under arcanut based cropping system	Dr. Manjurima Gogoi, Scientist (Plant Pathology), Assam Agricultural University, Zonal Research Station, Diphu-

ANNEXURE-I**LIST OF RECOMMENDED R&D PROJECTS FOR PRESENTATION**

Sl. No.	Project Code No.	Project Title	Name, Designation and full address of the P.I.
35.	R&DP23-167	Development and optimization of Jackfruit-derived white spirit for sustainable beverage production	Dr. Nickhil C., Assistant Professor, Department of Food Engineering and Technology, Tezpur University, Napaam-784028
36.	R&DP23-180	Design, development and fabrication of a low-cost smart solar water disinfection system for rural areas	Dr. Sandip Bordoloi, Assistant Professor, Department of Electrical Engg., GIMT University, Azara, Guwahati – 781017.