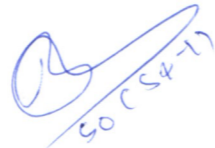


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## ANNEXURE-I

## LIST OF RECOMMENDED RESEARCH AND DEVELOPMENT (R&amp;D) PROJECTS FOR PRESENTATION

SL. NO	PROJECT TITLE	NAME OF THE PRINCIPAL INVESTIGATOR(PI)	CONTACT DETAILS/EMAIL ID's	DEPARTMENT	PROPOSED BUDGET	NAME OF THE INSTITUTE/UNIVERSITY
1	ERI pupa based ornamental fish feed: preparation,standardization and sustainable utilization	Dr. Bhuban Ch. Chutia	7002133245	Zoology	8 lakhs	Nowgong College
2	Development of a deep learning real-time natural scene assamese texts translation system.	Dr.Anjan Kumar Talukdar	9401143294	Electronics and Communication Engineering	8 lakhs	Gauhati University
3	An investigation into the effects of clogging on the permeability of pervious concrete pavements.	Dr. Jayanta Deori Bharali	9678336211	Civil Engineering	7,98,250/- lakhs	Tezpur University
4	Development of a solar-electrical hybrid air heater with automatic temperature control mechanism for drying applications.	Dr Pradyumna Kumar Choudhury	9435046262	Energy	7,55,000/- lakhs	Tezpur University
5	Design and development of artificial intelligence enabled advanced pest and disease identification and management system for the Assam tea leaf on an early stage.	Dr. Utpal Barman	9085040861	Computer Science and Engineering	7,87,500/- lakhs	The Assam Kaziranga University
6	Development of eco-friendly edible tea bags.	Dr. Bhargab Jyoti Sahariah	9854547515	Pharmaceutical Sciences	1,20,000/- lakhs	NETES Institute of Pharmaceutical Science, Mirza.
7	Design of a real-time, boat load monitoring and safety system.	Dr. Kandarpa Kumar sarma	9401454994	Electronics and communication engineering	8 lakhs	Gauhati University
8	Estimation of pesticide residuals in tea leaves of the tea gardens of Assam and mitigate the health issues of the tea garden workers due to exposure of pesticides.	Dr. Rashi Borgohain	8638023831	Electronics and telecommunication Engineering	8,02,000/- lakhs	Assam Engineering College





SL. NO	PROJECT TITLE	NAME OF THE PRINCIPAL INVESTIGATOR(PI)	CONTACT DETAILS/EMAIL ID's	DEPARTMENT	PROPOSED BUDGET	NAME OF THE INSTITUTE/UNIVERSITY
9	Development of an user friendly roll on stick for management of piles using natural resources.	Mrs. Juti Rani Devi	8876649885	Pharmaceutics	5,80,000/- lakhs	NETES Institute of Pharmaceutical Science, Mirza.
10	Design of anaerobic biphased reactor(ABR) technology for biomethanation of terrestrial weeds	Dr. Pallavi Sharma	9859182234	Biotechnology	8 lakhs	Gauhati University
11	Designing a controlled release transdermal patch for wound healing using natural resources.	Mr. Koushik Nandan Dutta	7002243950	Pharmacognosy	5,70,000/- lakhs	NETES Institute of Pharmaceutical Science, Mirza.
12	Natural radioactivity measurement and evaluation of radiological hazards in sediment of Brahmaputra river, Assam by gamma ray spectroscopy.	Mr. Jibon Sharma	910100871	Radiation Oncology	7,91,000/- lakhs	State Cancer Institute, Gauhati Medical College, Guwahati-32
13	Developing a medicated skin patch from natural resource to felicitate the wound healing process.	Dr. Manoj Kumar Deka	7002243369 manojpharmacy86@gmail.com	Pharmaceutics	7,50,000/- lakhs	NETES Institute of Pharmaceutical Science, Mirza.
14	Extraction and formulation of perfume from essential oil of Dioscorea sp. of N.E. India.	Dr. Nilofer Sheikh	9612327669	Botany	7,95,826/- lakhs	Biswanath College, Bishwanath
15	A novel herbal fabric cleanser for natural fibre based clothing.	Mr.Banshongdor H Mawlieh	9629192873	Pharmacology	3,60,000/- lakhs	NETES Institute of Pharmaceutical Science, Mirza.
16	Development of a nano zinc fortified herbal mix for increased productivity in goats.	Dr. Jumi Dutta	8058809844	Veterinary Biochemistry	7,97,500/- lakhs	College of Veterinary Science, C.V.Sc, AAU, Khanapara,Guwahati.
17	Biofuel and bio-agro-chemicals from pyrolysis of organic fraction of municipal solid waste (MSW)	Dr. Rupam Kataki	9365413523	Energy	8,00,000/- lakhs	Tezpur University
18	Application of polyaniline biocomposite for removal of toxic metal from leachate and ground water.	Dr. Sumi Handique	03712-275611	Environmental Science	9,10,100/- lakhs	Tezpur University

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SL. NO	PROJECT TITLE	NAME OF THE PRINCIPAL INVESTIGATOR(PI)	CONTACT DETAILS/EMAIL ID's	DEPARTMENT	PROPOSED BUDGET	NAME OF THE INSTITUTE/UNIVERSITY
19	Potential public health hazard from market fish in Guwahati City:Detection of Antibiotic residues,formalin and pathogenic bacteria.	Dr. Luit Moni Barkalita	9954077915	Animal Biotechnology	7,75,000/- lakhs	Faculty of veterinary science,Assam Agricultural University, Khanapara, Assam
20	A conservation approach for structural heritage of Ahom Dynasty through the intervention of science & technology.	Dr.Nabin Sarmah	03712-275314	Energy	7,98,000/- lakhs	Tezpur University
21	Florescent carbon dot based Electrochemical and optical biosensor for poltants detection in natural geochemical environment.	Dr. Rekha Rani Dutta	9508102298	Chemistry	8 lakhs	The Assam Kaziranga University
22	Application of MCM-48 as heterogeneous catalyst in the production of biodiesel from Nyamplung seed( <i>Calophyllum Inophyllum</i> L)	Dr. Kishor Kr. Shah	7005662959	Chemistry	8 lakhs	ADP College,Nagaon
23	Development of a facile low cost system for detection of pesticide residue in tea.	Dr. Priyanka Kakoty	8486630432	Electronics and communication engineering	7,99,600/- lakhs	Tezpur University
24	Exhaustive valorisation of arecanut waste as a source of potential healthcare biomaterials.	Dr. Laldusanga Pachuau	9862362392	Pharmaceutical Sciences	8 lakhs	Assam University
25	Radionuclides in minerals of Assam: An assessment on their uses and related health implications.	Dr. Debajyoti Barooah	9864129868	Physics	8,81,268/- lakhs	Cotton University, Guwahati.
26	Characterization and quality evaluation of smoked dried fermented fish product (Napham) prepared by Bodo community of Assam.	Prof. S.C.Deka	9435408396	Food Engineering and Technology	8 lakhs	Tezpur University

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SL. NO	PROJECT TITLE	NAME OF THE PRINCIPAL INVESTIGATOR(PI)	CONTACT DETAILS/EMAIL ID's	DEPARTMENT	PROPOSED BUDGET	NAME OF THE INSTITUTE/UNIVERSITY
27	Development and evaluation of multiple antigenic peptide based diagnostic assay for detection of <i>Babesia gibsoni</i> in dog targeting GPI-encode protein.	Dr. Rupam Dutta	9957907440	Animal Biotechnology	8 lakhs	College of Veterinary Science, Assam Agricultural University.
28	Exploration and identification of natural minerals of Assam and Study of their luminescence dynamics.	Dr. Jitumani Kalita	8638298471 9707740363	Physics	7,99,000/- lakhs	Cotton University, Guwahati.
29	Development of customized high-moisture meat analogue from underutilized legume seed protein of North-East India.	Dr Amit Baran Das	03712-275715	Food Engineering and Technology	2,86,000/- lakhs	Tezpur University
30	On-site pilot-scale defluoridation and arsenic removal module based on axial dispersion mathematical modelling for domestic use in rural areas of Assam state.	Dr. Selvaraju Narayanasamy	9446021424	Bioscience and Bio Engineering	3,37,800/- lakhs	IIT, Guwahati.

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