

List of the recommended Research & Development Projects for Support (Annexure-I)
(Phase wise with recasted budget)

Phase-I				
Sl. No.	Project Code	Project Name	Name of the P.I./ Institute	Recasted Duration/Budget
1.	R&DP23-16	Synthesis of bio-waste derived bi-functional solid catalysts for one-potesterification and transesterification of non-edible oils: process optimization using response surface methodology and kinetic study	Dr. Bishwajit Changmai Assistant Professor, Department of Chemistry, Bhattadev University, Bajali, Pathsala-781325	3 years Rs. 7,93,000/-
2.	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	3 years Rs. 4,20,000/-
3.	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	2 years Rs. 6,08,000/-
4.	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	3 years Rs. 6,35,000/-
5.	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	2 yrs. Rs. 7,81,000/-
6.	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	3 years Rs. 7,40,000/-



List of the recommended Research & Development Projects for Support (Annexure-I)
(Phase wise with recasted budget)

Phase-II				
Sl. No.	Project Code	Project Name	Name of the P.I./ Institute	Recasted Duration/Budget
1.	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	3 years Rs. 2,00,000/-
2.	R&DP23-70	Design and Development of a Mechanical paddy reaper Machine suitable for Paddy Fields of Assam, India	Shri 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	3 years Rs. 7,45,000/-
3.	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	3 years Rs. 5,30,000/-
4.	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), Guwahati-5	2 years Rs. 7,63,000/-
5.	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	3 years Rs. 6,75,000/-
6.	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	2 years. Rs. 5,08,000/-
7.	R&DP23-140	In vitro rapid mass propagation of <i>Rhynchostylis Retusa</i> (L.) Blume for commercial exploration	Dr. Ranjan Kr. Bora, Associate Professor, Department of Botany, Pragjyotish College, Guwahati- 781009	3 years Rs. 5,48,000/-

