

SITARE-GYTI AWARDEE

S. No	Category	Proposal Reference No	Proposal Title	Applicant Name	Institute Name
1	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE-GYTI0283/	An Intraoperative Probe for Brain Tumour Margin Delineation	ARJUN B S	Indian Institute of Science, Bengaluru
2	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE-GYTI0380/	Microsensor Integrated Intubation Catheter for Chronic Airway management	Alekya B	Indian Institute of Science, Bengaluru
3	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE-GYTI0653/	Design and Development of Hollow Polymeric Microneedles for controlled drug/vaccine delivery	Pankaj Shivhare	Indian Institute of Technology, Bombay
4	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE-GYTI 0544/	Environment Safe Antimicrobial Phytoabsorbent Pads For Sanitary & Hygiene Products	Deepika NP	JSS College of Pharmacy, Ooty
5	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE-GYTI 0597/	Pro-Care : Prognostic point of care monitor for cardiovascular disease management	Ruchira Nandeshwar	Indian Institute of Technology, Bombay

6	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE-GYTI0574/	Rapid detection of bilirubin using Cationic Multifluorescent Carbon Quantum dots as a fluorometric probe	Barkha Singh	Indian Institute of Technology, Bombay
7	Agriculture Area	BT/BIRAC/SITARE-GYTI 0363/	Genetic characterization and development of endophytic Microbacterium based bioinoculant for rice blast disease management	Asharani Patel	Indian Agricultural Research Institute, Delhi
8	Agriculture Area	BT/BIRAC/SITARE-GYTI 0675/	Digitization of Manufacturing Process of Indian Sweetmeats with Tailored Functionality for Harnessing Food Safety and Quality	Sukirti	Indian Institute of Technology, Delhi
9	Agriculture Area	BT/BIRAC/SITARE-GYTI 0642/	Development of process technology for instant soluble skim milk tablets	Siddharth vishwakarma	Indian Institute of Technology, Kharagpur

10	Industrial Biotechnology (Industrial Products and Process and Secondary Agriculture)	BT/BIRAC/SITA RE-GYTI 0635/	Enriching methane content in biogas through CO2 conversion into acetic acid via microbial electrosynthesis	Moumita Roy	Indian Institute of Science Education and Research, Mohali
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SRISTI-GYTI AWARDEE

Sr. No.	Category	Participate_id	Project Title	Applicant Name	Institute Name
1	Biomedical Engineering	15647	Lithography-less, Frugal and Scalable Microfluidic Device for Drug Discovery and Drug Screening Applications	Ketaki Bachal	Indian Institute of Technology, Bombay
2	Chemical Engineering	15944	Novel Boron Nanoadditives for Improving the Performance of Solid Propellants	Harini Gunda	Indian Institute of Technology, Gandhinagar
3	Food Engineering	15593	Battery Less Electrochemical Sensor for Quantification, Removal of Naringin and Determination of Maturity of Citrus Fruits	Arun Kumar Gupta	Tezpur University Tezpur
4	Nano Science and Engineering	15774	Drop Impact Printing	Chandanta ru Dey Modak	Indian Institute of Science, Bengaluru
5	Nano Science and Engineering	15877	Development of Completely 3D printed Microfluidic Device with Reusable Bioelectrodes for Enzymatic Glucose Biofuel Cell Applications	Jayapiriya U S	Birla Institute of Technology & Science, Pilani
6	Electrical, Instrumentation & Related Fields	15689	Design and Development of a Low-cost Milk Tester	Moupali Chakraborty	Indian Institute of Technology, Kharagpur
7	Electrical, Instrumentation & Related Fields	15720	A Low Cost Pocket-sized Digital Microscope	Sanjeev Kumar	Indian Institute of

					Technology, Kharagpur
8	Mechanical/Textile	15727	Point-of-care spinning Disc for Complete Blood Count (CBC)	Rahul Agarwal	Indian Institute of Technology, Kharagpur
9	Textile	15800	Development of Light Weight Cost Effective Soft Body Armour using Indigenous Technology	Mukesh Bajya	Indian Institute of Technology, Delhi

SITARE-GYTI Appreciation

1	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE -GYTI-0289/	A low-cost automated bone mill for delivering graft particles of definite sizes	Jannu Rajeev Naren	S V S Group of Institutions, Mahabubnagar
2	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE -GYTI-0301/	An intelligent hand rehabilitation and assessment system for stroke patients	Chandan Kumar Jha	Indian Institute of Technology, Gandhinagar
3	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE -GYTI-0318/	Design and development of phased array applicator for hyperthermia treatment of locally advanced breast cancer	Divya Baskaran	Indian Institute of Technology, Madras
4	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE -GYTI-0521/	Nucleic Acid Testing Based Low Cost Portable Rapid Diagnostic Device for Detecting Viral Pandemic Infection at the Community Level: from	Sujay Kumar Biswas	Indian Institute of Technology, Kharagpur

			Saliva to Solution		
5	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE -GYTI-0533/	A diagnostic kit to minimize risks from the micro-TESE procedure while differentiating nonobstructive vs. obstructive azoospermia	Govindkumar Balagannavar	Institute of Bioinformatics and Applied Biotechnology, Bengaluru
6	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE -GYTI-0650/	Design and Development of Post-Surgical Rehabilitation Device for Temporomandibular Joint Disorder Patients	Priyanshu Raj Srivastava	Indian Institute of Technology, Jodhpur
7	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE -GYTI-0663/	Ultra-Low Cost Instrumented Foot Pressure Insole For Gait Rehabilitation in Locomotor Dysfunction Among Differently-abled and Other Clinical Populations	Ashutosh Tiwari	Indian Institute of Technology, Delhi
8	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE -GYTI-0617/	Microfluidic Immunosensor For Point-of-care-testing Of Beta-2-microglobulin In Tear	Surjendu Maity	Indian Institute of Technology, Guwahati

9	Industrial Biotechnology (Industrial Products and Process and Secondary Agriculture)	BT/BIRAC/SITARE -GYTI 0244/	Processing of Citrus limetta Seeds as Industrial Waste into Acaricidal Agents for Controlling Cattle Tick	Parag Jain	Columbia College of Pharmacy, Raipur
10	Industrial Biotechnology (Industrial Products and Process and Secondary Agriculture))	BT/BIRAC/SITARE -GYTI 0391/	Technological transformation of integrated biomass conversion process in the rural context for the production of handmade paper from the locally available common reed Phragmiteskarka in Chilika Lake of Odisha	Falguni Pattnaik	Indian Institute of Technology, Delhi
11	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE -GYTI 0351/	A Point-of-Care Device for Heavy Metal Ion Detection in Body Fluids	Swetha Menon	Indian Institute of Technology, Madras
12	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE -GYTI 0364/	Neonatal Hearing Screening headband for brainstem and cortical response extraction	Rathin Joshi	Indian Institute of Science, Bengaluru
13	Healthcare Devices and Diagnostics	BT/BIRAC/SITARE -GYTI 0500/	Wearable Interactive Parkinsons disease Assistive	Yogesh Singh	Indian Institute of Technology, Gandhinagar

			Device – WIPAD		
1 4	Healthcare Drugs (including Drug Delivery)	BT/BIRAC/SITARE -GYTI 0579/	Identifying inhibitor of Pai- 1 to develop a potential therapy against fibrotic diseases	Isha Rana	Institute for Stem Cell Science and Regenerative Medicine, Bengaluru
1 5	Healthcare Drugs (including Drug Delivery)	BT/BIRAC/SITARE -GYTI 0656/	A novel approach to cure the chronic diabetic wounds	Akshay Hegde	Institute for Stem Cell Science and Regenerative Medicine, Bengaluru

SRISTI-GYTI Appreciation

1	Biomedical Engineering	15640	Osteoinductive Personalized Bone Grafts by 3D Printing of Novel Natural Fiber Reinforced Composite for Maxillofacial Reconstruction	B Sri Sai Ramya	Indian Institute of Technology, Hyderabad
2	Biomedical Engineering	15780	Design and Development of a Trans Illumination Imaging to Detect Breast Malignancies and Correlation of Results with Mammograms	Chiranjib Bhowmic k	Indian Institute of Technology, Kharagpur
3	Food Engineering	16081	Development of a Novel Low Cost Non-thermal Process Technology for Preparation of Shelf Stable Sugarcane Juice	Chirasmit a Panigrahi	Indian Institute of Technology, Kharagpur
4	Nano Science and Engineering	16028	An Electrolithography Tool for High throughput Pattern Generation	Sumit Kumar	Indian Institute of Science, Bengaluru
5	Bioengineering / Biotech	15651	Modified Trickling Filter- A solution to water crisis in India	Rishabh Shukla	Indian Institute of Technology, Delhi
6	Biomedical Engineering	15659	Efficient Deep Learning Technique for Automated Ischemic Stroke Detection	Anusha Vupputuri	Indian Institute of Technology, Kharagpur

			Assisting Radio-diagnosis for Reperfusion Therapy.		
7	Nano Science and Engineering	15885	Greywater Sink for Potable and Non-potable Uses	Ankit Nagar	Indian Institute of Technology, Madras
8	Electronics, Communications & related fields	15688	An Indigenous Low-cost Smartphone Interfaced Handheld Potentiostat	Abhranila Das	Indian Institute of Engineering Science and Technology, Shibpur
9	Electronics, Communications & related fields	15848	An Affordable, Sensitive and Portable Electric Field Mediated Device Towards Label-free, Point of Care Disease Diagnostics	Bhaswati Chakraborty	Indian Institute of Engineering Science and Technology, Shibpur
10	Electronics, Communications & related fields	15876	Origami Microfluidic Microbial Fuel Cell (MFC) for Powering IoT Node with Cloud IoT Platform	Prakash Rewatkar	Birla Institute of Technology, Pilani
11	Electrical, Instrumentation & Related Fields	15501	A Unipolar Coil Arrangement Method for Improving the Coupling Coefficient without Ferrite Material in Wireless Power Transfer Systems	Gautam Rituraj	Indian Institute of Technology, Guwahati
12	Electrical, Instrumentation & Related Fields	15661	Psychophysiological Monitoring of a Subject using Optical Respiration Rate Measurement System	Abhinav Gautam	Indian Institute of Technology (ISM), Dhanbad
13	Electrical, Instrumentation & Related Fields	15897	Position Sensorless Permanent Magnet Brushless DC Motor Drive for Grid Interactive and Solar Powered Irrigation Pump	Aryadip Sen	Indian Institute of Technology, Delhi
14	Aerospace Engineering	15575	A New Control Surface Auxiron for Aircraft and a Solar UAV Equipped with it	Vijay Shankar Dwivedi	Indian Institute of Technology, Kanpur
15	Textile	15590	Multifunctional Disperse Dyes	Ankit Kumar Singh	Indian Institute of Technology, Delhi
16	Textile	15821	Metal-organic Framework Functional Smart Textiles for Environmental Air Purification, Anti-odor, and Antimicrobial Applications	Hardeep Singh	Indian Institute of Technology, Delhi

17	Textile	15950	Reusable MoS ₂ Nanosheet Modified Antibacterial Cotton Fabric with Solar Light Driven Self-disinfection Property for Repurposing of Personal Protective Masks	Shounak Roy	Indian Institute of Technology, Mandi
18	Materials Science	15844	Smart Polymer with Human Body Temperature Activation	Hema Garg	Indian Institute of Technology, Delhi