

## Result of SITARE & SRISTI GYTI 2020

SITARE - GYTI 2020 Awardees			
S.No	Category	Proposal Ref. No and Applicant details:	Proposal Title
1	Healthcare-Devices & Diagnostics	BT/BIRAC/SITARE-GYTI-0040/01/19  Anil Vishnu G K Indian Institute of Science, Bengaluru	A Portable Diagnostic Platform for Rapid Label-free Phenotyping of Breast Cancer
2	Healthcare-Devices & Diagnostics	BT/BIRAC/SITARE-GYTI-0234/01/19  Siddhant Shrivastava IIT Kanpur	Multipurpose Proctoscope
3	Healthcare-Devices & Diagnostics	BT/BIRAC/SITARE-GYTI-0135/01/19  Divagar M Indian Institute of Technology Madras	An affordable and easy-to-use optical biosensor for mannosylated lipoarabinomannan manLAM in urine for TB diagnosis
4	Healthcare-Devices & Diagnostics	BT/BIRAC/SITARE-GYTI-0059/01/19  SUMANTA LAHA, Indian Institute of Technology Kharagpur	An Automated Cardiovascular Replicator For Online Assessment Of Cardiac Assist Devices, Prosthetics And Beyond
5	Healthcare-Devices & Diagnostics	BT/BIRAC/SITARE-GYTI-0146/01/19  Monalisha Pattnaik, Indian Institute of Technology Kharagpur	Development of polyunsaturated fatty acid PUFA and antioxidant rich vegetable oil powder for healthy heart

6	Healthcare- Devices & Diagnostics	BT/BIRAC/SITARE-GYTI- 0010/01/19  Vaibhav Shitole National Institute of Pharmaceutical education and Research Ahmedabad	A user friendly, affordable device for self blood microsampling for diagnostics and pharmaceutical applications
7	Healthcare- Devices & Diagnostics	BT/BIRAC/SITARE-GYTI- 0144/01/19  Vinoj P.G, Scms School Of Engineering & Technology	Artificial Deep Learning Brain Actuated Lower Limb Exoskeleton For Paralyzed
8	Healthcare- Devices & Diagnostics	BT/BIRAC/SITARE-GYTI- 0206/01/19  Arthi Sunil Richard, INDIAN INSTITUTE OF TECHNOLOGY MADRAS	Nanofiber Yarn Suture : A Medical Device
9	Agriculture Area	BT/BIRAC/SITARE-GYTI- 0047/01/19  SUMIT KUMAR SINGH, National Dairy Research Institute	Development of Electrochemical Impedance based Aptasensor for Semen sorting in Cattle
10	Healthcare- Devices & Diagnostics	BT/BIRAC/SITARE-GYTI- 0115/01/19  Shweta Pant, Indian Institute of Science Bengaluru	A Novel, Low-cost, Non-invasive Eye Tracker Using Fiber Optic Sensor
11	Healthcare- Devices and Diagnostics	BT/BIRAC/SITARE-GYTI- 0217/01/19  Prem Dakshin, Birla Institute of Technology & Science University City Jhujhunu	Frustum CAM in Medical Ventilators

12	Healthcare-Devices and Diagnostics	BT/BIRAC/SITARE-GYTI-0075/01/19  Ravindra Gaikwad Indian Institute of Technology, Madras Chennai, Tamil Nadu	Continuous monitoring of gasotransmitters for early stage management of Systemic Inflammatory Response Syndrome SIRS using microfluidics platform
13	Healthcare-Devices & Diagnostics	BT/BIRAC/SITARE-GYTI-0143/01/19  Deepa Dixit, IIT Gandhinagar	A non-electric and affordable surface engineered particle based point-of-use water disinfection
14	Healthcare-Drugs	BT/BIRAC/SITARE-GYTI-0045/01/19  SHIVRAJ NAIK Institute of Chemical Technology	Nanotechnology based intranasal spray formulation for the effective treatment of the Alzheimers disease
<b>SITARE - GYTI 2020 Appreciations</b>			
<b><u>S.No</u></b>	<b>Category</b>	<b>Proposal Ref. No and Applicant details:</b>	<b>Proposal Title</b>
1	Healthcare-Devices and Diagnostics	BT/BIRAC/SITARE-GYTI-0021/01/19  Aliarshad Kothawala, Indian Institute of Technology Madras, Arun K. Thittai	Real-time Ultrasound based acoustic parameter Imaging to track spatio-temporal evolution of hotspot in High Intensity Focused Ultrasound and Microwave Hyperthermia

2	Industrial Biotechnology (Industrial Products and Process and Secondary Agriculture)	SONALI NAIK National chemical laboratory, Pune, Maharashtra	Tannin based mouth freshener
3	Agriculture Area	BT/BIRAC/SITARE-GYTI-0102/01/19  Sanjit Debnath, Tripura University	Development of protocol of commercial cultivation of Nobel wild edible mushrooms of Tripura, Northeast India and evaluation of their biological properties
4	Healthcare-Devices & Diagnostics	BT/BIRAC/SITARE-GYTI-0145/01/19  Vijai Laxmi, Indian Institute of Technology Bombay	A Low Cost Passive Microdevice For Platelet Rich Plasma PRP Separation From Human Blood
5	Healthcare-Devices & Diagnostics	BT/BIRAC/SITARE-GYTI-0155/01/19  Aswathy Nair, Indian Institute of Technology Bombay	Breath volatile organic compound detection using conducting polymer coated chemiresistive filter paper sensors
6	Industrial Biotechnology	BT/BIRAC/SITARE-GYTI-0147/01/19  Aritraa Lahiri, Indian Institute of Science Education and Research Kolkata	Production of bioactive chicken IL17A by genetically engineered food grade lactic acid bacteria LAB : From Gene to Biomedical application in poultry

7	Industrial Biotechnology (Industrial Products and Process and Secondary Agriculture)	BT/BIRAC/SITARE-GYTI-0141/01/19  Puja Kumari, Indian Institute of Technology Madras	Development of sustainable antimicrobial wrapping material from biopolymers
8	Agriculture Area	BT/BIRAC/SITARE-GYTI-0028/01/19  Shubhangi Mahajan, Amity University	Crop productivity and related value addition Black Rice by co-inoculation with nanoembedded mycorrhizal fungus Piriformospora indica Serendipita
9	Healthcare-Devices & Diagnostics	BT/BIRAC/SITARE-GYTI-0130/01/19  TATHAGATA PAL, Indian Institute of Technology Bombay	Colorimetric Yes/No type swab based detection of pesticides on agricultural produce
10	Healthcare-Drugs	BT/BIRAC/SITARE-GYTI-0067/01/19  Sukanya Patra, Indian Institute of Technology Banaras Hindu University	Development of polymer based Nano medicine for the treatment of Cerebral Malaria
11	Healthcare-Devices and Diagnostics	BT/BIRAC/SITARE-GYTI-0236/01/19  Krishna Sivanand Kumaraguru College Of Technology	Smart Glove for Assisted Physiotherapy

**SRISTI-GYTI 2020 Award List**

<b>Sr. No</b>	<b>Category</b>	<b>Project ID and applicant details</b>	<b>Title</b>
1	Biomedical Engineering	15358  Murali K Indian Institutes of Technology Bombay	An inexpensive deep tissue blood flow measurement system using low frame rate camera
2	Medical Science & Technology	15331  Rajesh Srinivasan, Vikram S, Niraj N Jadhav Indian Institute of Science Bangalore	A Novel CD4 cell count method for HIV infected patients using a Hematology Analyzer
3	Medical Science & Technology	14740  Gunjan Indian Institutes of Technology Madras	AbleFit: Wearable device for orthopedic and neurological disorders patients
4	Agriculture	15446  Amrinder Singh, Gurditt Singh, Nitika Dhingra Varinder Singh Chitkara University	MOKSH-Convert crop waste into wealth
5	Nano Science and Engineering	15128  Souvik Ghosh Indian Institute of Science Bangalore	A method and a system for remotely controlled manipulation of nanomaterials in fluids
6	Mechanical/ Textile	15300  Jasvinder Singh, Gurminder Singh Indian Institutes of Technology Delhi	Development of customized shape patient specific tubular stent by 3D printing technology

7	Energy Engineering	14998  JEETENDRA PRASAD Motilal Nehru National Institute of Technology Allahabad	Sediment Microbial Fuel Cell as a Renewable Power Source in Remote Area
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**SRISTI-GYTI 2020 Appreciation List**

Sr. No	Category	Project ID and applicant details	Title
1	Bioengineering / Biotech	14814  Kuldeep Mahato, Buddhadev Purohit Indian Institutes of Technology Guwahati	Paper based portable kit for the naked eye detection of milk pasteurization indicator based on alkaline phosphatase
2	Bioengineering / Biotech	15043  Syed Muntazir Andrabi Indian Institutes of Technology Kanpur	A Ready-to-use Haemostatic Bandages for Military and Civilian Trauma Care
3	Chemical Engineering	14969  Bukke Vani, Mr. Sajja. S. Chandrasekhar ,Mr. Dileep Kumar Fothedar,Ms. D. Vaishnavi,Dr. Nivedita Sahu,Dr. M. Madhumala,Mr. M. Ramakrishna,Karishma Mishra,Shiva Prasad N, Sugali Chandra Sekhar Indian Institute of Chemical Technology (CSIR-IICT)	Design of an Indigenous Atmospheric Water Generator for Economical Production of Drinking Water in the Water Scarce HILLY, Arid and Coastal Regions

4	Chemical Engineering	15012 Prashant Ram Jadhao, Ramdayal Panda, Snigdha Mishra, Ejaz Ahmad Indian Institutes of Technology Delhi	Self Sustainable E-waste Recycling: Generating Wealth from Waste via Zero Discharge Technology
5	Chemical Engineering	15074  Sri Ganesh Subramanian, Justin A Weibel Indian Institutes of Technology Kharagpur	Smart, Flexible, and Multi-Functional Thermal and Energy Management Systems for Next-Generation Electronic Devices
6	Nano Science and Engineering	15204  Pradeep K R Jawaharlal Nehru Centre for Advanced Scientific Research	Harvesting Delayed Fluorescence in Mn doped Perovskite Quantum Dots Using Vibrationally Assisted Delayed Fluorescence (VADF)
7	Nano Science and Engineering	15210  Ramji Kalidoss, SRM University	Design of Acetone Breath Gas Analyzer in the Evaluation of Diabetes Mellitus
8	Mechanical/ Textile	15107  ASHISH KUMAR SAHU, Harish Kumar, Hardik Arvindbhai Patel, Jitin Malhotra Indian Institutes of Technology Delhi	Design and Development of Advanced CNC Micro-machining System
9	Design	15239  Sri Navya Kondaveeti Indian Institutes of Technology Bombay	Not-IS : A currency identification aid for the visually impaired in India

10	Metallurgical Engineering	15275  SINGH RAHULKUMAR SUNIL Indian Institutes of Technology Roorkee	Recovery of Lithium Cobalt and Manganese values from discarded Lithium-ion batteries
11	Mechanical/Textile	14918  Sankha Shuvra Das, Vinay Manaswi Pedireddi, Aditya Bandopadhyay, Partha Saha Indian Institutes of Technology Kharagpur	Electrical Power Generation from Wet Textile
12	Mechanical/Textile	15289  Parth Joshi Indian Institutes of Technology Jodhpur	Development of New Electro-Mechanical Muscle Fatigue Measurement Device.
13	Electrical, Instrumentation & Related Fields	14882  Suresh Nuthalapati, Vijay Shirhatti, Vaishakh Kedambaiboole Indian Institute of Science Bangalore	Highly Sensitive, Scalable Reduced Graphene Oxide with Palladium Nano-composite as Strain Sensor
14	Textile	15283  Nagender Singh Indian Institutes of Technology Delhi	Development of Sustainable Mosquito Repellent Cum Multifunctional Textile using Microencapsulation of Essential oils
15	Instrumentation Engineering	14751  Vivek Singh Indian Institute of Science Bangalore	Deposition Reactor Designed for Low-cost low-temperature deposition of high-quality oxides films for next-generation electronics

Results have been communicated to awarded and appreciated students.

We appreciate the participation of all the rest who could not make it this year. They are encouraged to apply next year.

Looking forward to continued engagement with honey bee network, SRISTI and GYTI platform.

**Team GYTI**