

Details of new projects sanction under the Scheme for Young Scientist and Technologists (SYST), programme FY-2023-24

Sl.No	Title of the Project	Name of the PI & Organisation Address, Email id	STATE	Amount sanctioned for the project	General Release	Capital release
1	Smartphone enabled detection of cystic fibrosis using lead free perovskites based paper wearable analytical device	Dr. Bhanu Prakash Scientist-C Institute of Nanoscience and Technology 104, INST Mohali, Sector-81, Knowledge City, Sahibzada Ajit Singh Nagar, Punjab, Pin - 140306 Mohali Punjab (140306)	Punjab	25,30,647/-	8,96,857/-	12,34,752/-
2	IoT Based Landslide and Slope Monitoring system using TDR and Shape Accel Array for Mines	Dr. Guntha Karthik Associate Professor Stanley College of Engineering and Technology For Women, H-No.5-78 to 82, B-1-80 & 5-9-81, Chapel Road, Fateh Maidan, Abids,Hyderabad, Telangana (5000 01)	Telangana	47,63,158/-	6,47,760/-	28,43,238/-
3	Non-Invasive Point of Care Device for Breast Cancer Detection.	Dr. Amrita Soni CSIR CSIO, Chemo-/Biosensory Lab, Materials Science and Sensor Applications CSIR-Central Scientific Instruments Organisation, Sector 30-C, Chandigarh 160	Punjab	43,61,188/-	20,81,680/-	11,30,338/-

4.	Stubble and plastic waste management by 3D printing Development of low cost functional feedstock filaments	Dr. Ranvijay Kumar Assistant Professor Chandigarh University NH 95, Chandigarh-Ludhiana Highway, Mohali, Punjab (140413)	Punjab	38,32,794/-	10,61,176/-	8,45,958/-
5.	Nanomaterials based Biosensors for Non-invasive Monitoring of Plant Pest and Diseases	Dr. Kumud Malika Tripathi Ramalingaswami Faculty Indian Institute of Petroleum and Energy 2nd Floor, AU College of Engineering, Andhra University Visakhapatnam Andhra Pradesh (530003)	Andhra Pradesh	30,53,880/-	6,88,960/-	9,87,000/-
6.	Dual agricultural land utilization through photovoltaic-based DC microgrid AGRI-UNATI	Mr. Anand Abhishek Senior Scientist Central Electronics Engineering Research Institute CSIR-CEERI, Pilani Dist. Jhunjhunu, Rajasthan (333031)	Rajasthan	32,09,924/-	8,87,524/-	9,98,752/-

7.	Development of Electrochemical Sensor System based on Two-dimensional MoS ₂ for Real-time Soil Quality Monitoring using IoT	Dr. Brajesh Rawat Assistant Professor Indian Institute of Technology Ropar 310, J C Bose Block, IIT Ropar, Main Campus, Near Birala Seed Farm Ropar Punjab (140001)	Punjab	30,88,800/-	5,70,200/-	22,00,000/-
8.	3D printed biochips for early monitoring of thyroid dysfunction	Dr. Aarathi Pradeep Assistant Professor Amrita Vishwa Vidyapeetham Department of Sciences, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Ettimadai, Coimbatore, Tamil Nadu	Tamil Nadu	23,07,920/-	11,48,960/-	0
9.	Biocompatible Conductive Inks for Cost-Effective Fabrication of Microfluidic Wearable Sensors for Analyzing Glucose Level from Sweat	Dr. S Vanaja Assistant Professor Easwari Engineering College (Autonomous) Easwari Engineering College (Autonomous), Bharathi Salai, Ramapuram, Chennai-600089, Tamil Nadu,	Tamil Nadu	28,56,426/-	8,46,590/-	1,13,000/-

10.	Developing NADES based green technology for extraction of value-added products from marigold flowers.	Dr. Nithya N Kutty Assistant Professor Dr. Vishwanath Karad Mit World Peace University MIT WPU S.No.124, Paud Road, Kothrud, Pune, Maharashtra	Maharashtra	31,34,219/-	7,01,000/-	10,31,219/-
11.	Development of diagnostic tool for on-site and simultaneous detection of viruses infecting tomato	Dr. Vijay Anand Raj S Scientist, National Botanical Research Institute, Lucknow P.O. Box No 436, Sikanderbagh, RanaPratap Marg, Hazratganj, Lucknow Lucknow Uttar Pradesh (226001)	Uttar Pradesh	26,84,686/-	11,31,709/-	4,57,900/-
12.	Utilization of guar by-products for the development of biostimulant for vegetable crops in arid region	Dr. Saurabh Swami Scientist ICAR-Central Arid Zone Research Institute Jodhpur, Rajasthan (342003)	Rajasthan	32,09,498/-	7,28,467/-	11,54,877/-

13.	Designing Near-infrared Fluorescent Probes for Detection of Mycotoxins in Agricultural Crops and Food Items	Prof. Nilanjan Dey Assistant Professor Birla Institute of Technology And Science (BITS), Pilani, Hyderabad Campus, Hyderabad Telangana (500078)	Telangana	22,07,084/-	7,43,028/-	0
14.	Aedes Aegypti mosquito (Dengue) breeding surveillance using drones in flooded regions of Chennai	Dr. Maria Anu V Associate Professor Vellore Institute of Technology Vandalur Kelambakkam Road, Chennai-600127	Tamil Nadu	27,68,169/-	9,59,419/-	10,05,360/-
15.	Non-invasive low-cost cardiac sound signal processing system for human heart health monitoring.	Dr. Abhijit Bhattacharyya Assistant Professor NIT Hamirpur, ANU Hamirpur, H.P.- 177005 Hamirpur Himachal Pradesh (177005)	Himachal Pradesh	10,80,367/-	5,97,253/-	1,60,000/-

16.	Developing Real time Non-Invasive Approach to Distinguish Natural And Artificial Ripened Fruits	Dr. Narayan Tulshidas Vetrekar, Assistant Professor Goa University Talegao 403206, Goa	Goa	17,88,954/-	5,94,318/-	2,00,000/-
17.	Development of a novel herbal mineral water formulation using Solanum nigrum Linn leaves A pilot study	Dr. Kalimuthu Kalishwaralal MK Bhan Young Researcher Rajiv Gandhi Centre for Biotechnology (RGCB) Thycaud Post, Poojappura, Thiruvananthapuram - 695 014 Kerala,	Kerala	12,57,940/-	7,25,440/-	5,32,500/-
18.	'Induction of Vitamin D in Chlorella through photochemical effect of UV light'	Mr. Swapnil Sharad Kadam, Research Scholar The Kelkar Education Trust Scientific Research Centre V.G. Vaze College of Art, Science and Commerce, Mulund, Mumbai - 400081	Maharashtra	19,81,670/-	8,09,235/-	5,65,000/-

19.	Design and development of portable Electronic Tongue for the assessment of agricultural produce quality	Ms. Barnali Ghatak Researcher Aliah University, Action Area IIA/27, New Town, Kolkata-700160	West Bengal	18,27,360/-	6,86,160/-	6,12,000/-
20.	Design and Development of Hybrid-FRPBased Composites for Low-Cost and sustainable Mobile Shelter Houses	Dr. Saurabh Chandraker Assistant Professor National Institute of Technology Karnataka, Surathkal Mangalore Karnataka (575025)	Karnataka	31,56,400/-	7,93,200/-	1770000
21.	Soft Robotics based Biosensor for the detection of muscle stiffness in stroke patients	Dr. Kaushik Parida Scientist-B Institute of Nano Science And Technology Sector-81, Knowledge City, Sahibzada Ajit Singh Nagar, Punjab Kailash Apartment, Unit - 7/A Mohali Punjab (140306)	Punjab	25,92,000/-	4,36,000/-	14,00,000/-

22.	Design and fabrication of herbal extract loaded nanocapsules for medicinal leather	Dr. Sathya R Scientist Central Leather Research Institute (CLRI) SardarPatel Road, Adyar Chennai Tamilnadu (600020)	Tamil Nadu	30,00,066/-	10,08,590/-	0
23.	Multi Biometric Analysis of Cattle for Identification and Health Monitoring	Dr. Rahul Raman Assistant Professor Indian Institute of Information Technology Design and Manufacturing Kancheepuram, Chennai 310 I, Laboratory Complex, Iitdm Kancheepuram Campus, Melakottaiyur Village, Off Vandalur-Kelambakkam Road, Nellikuppam, Chennai	Tamil Nadu	18,18,475/-	6,56,747/-	5,48,893/-
24.	Dissecting the Role of Megsin in Diagnosis and Prognosis of Alcoholic Liver Cirrhosis	Mr. Nelaturi Prabhudasu PhD Scholar Aarupadai Veedu Medical College (A Constituent College of Vinayaka Missions Research Foundation Deemed to Be University, Pondicherry	Pondicherry	10,02,223/-	3,64,350/-	1,00,000/-

25.	Studies on antiviral and immune-modulatory potential of nano-formulation of indigenous plant extract against ewcastle disease virus in poultry	Dr. Deepika Chaudhary Researcher Scholar Lala Lajpat Rai University of Veterinary and Animal Sciences (Luvass), Hisar	Haryana	34,54,056/-	11,49,552/-	0
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