

**Details of new projects sanction under the Scheme for Young Scientist and Technologists (SYST), programme FY-2024-25**

<b>SI. No</b>	<b>Title of the Project</b>	<b>Name &amp; Designation of the PI, Organization name &amp; Address</b>	<b>State</b>	<b>Total Amount Sanctioned (Rupees)</b>	<b>General Release</b>	<b>Capital release</b>
1.	Ohmic heating based Novel, Aseptic and Continuous Processing of Viscous Food Material for Shelf-life Enhancement	Dr. Hilal Ahmad Makroo Islamic University of Science And Technology One University Avenue, Awantipora, Jammu and Kashmir (192122)	Jammu & Kashmir	18,54,548	7,08,960	11,45,588
2.	Machine learning based design of Low Cost Knee-Ankle-Foot-Orthosis for Divyangs and development through Additive-Manufacturing of recycled plastic	Dr. Vinyas Mahesh NIT Silchar 128 Samarpane, Behind Kailasashram, Saptagiri Extension, Shettyhalli Road, Tumkur Tumakuru Karnataka (788010)	Assam	17,46,950	6,58,660	10,88,290
3.	Evaluation of whey protein hydrolysates/peptides as component of edible films for preservation of paneer	Dr. Pramila Umaraw Sardar Vallabhbhai Patel University of Agriculture and Technology Department of Livestock Products Technology College of Veterinary and Animal Sciences, Svpuat Meerut Uttar Pradesh (250110)	Uttar Pradesh	18,48,658	5,41,938	13,06,720
4.	Plant-Based Rapidly Disintegrating Patches as a Treatment Modality for Oral Lichen Planus	Dr. Vivek Ghate M Yenepoya University University Road, Deralakatte, Mangalore 575018.	Karnataka	7,20,360	7,20,360	0
5.	Design and Development of	Dr. Madhuresh Dwivedi	Odisha	13,58,670	8,58,670	5,00,000

	Dual mode Electric and Solar supported turmeric processing machine	National Institute of Technology, Rourkela Nit Rourkela, Rourkela-769008, Orissa (769008)				
6.	The Technology A sustainable Resolution to Rural People by Transforming Agro-waste into Commodity Products	Dr. Siddhartha Moulik CSIR Indian Institute of Chemical Technology Habsiguda, Hyderabad Telangana (500007)	Telangana	21,68,485	9,20,635	12,47,850
7.	Electrocoagulation treatment of small-scale dyeing wastewater with recovery of residual hydrogen and metal from sludge	Dr. Vinita Khandegar Guru Gobind Singh Indraprastha University, Delhi GGSIPU, Dwarka, New Delhi delhi Delhi (110075)	Delhi	5,95,944	1,54,144	4,41,800
8.	Development of algal-bacterial consortium for hydrocarbon remediation in oil field formation water of upper Assam	Dr. Bhaskar Das Indian Institute of Technology Guwahati Guwahati “ 781039, India Phone: +91-361-2583000 Fax: +91-361-2690762 Email: pro[AT]iitg.ernet.in Guwahati Assam (781039)	Assam	13,17,461	9,07,590	4,09,871
9.	Utilization of industrial fruit and vegetable waste streams for production of 3d printed synbiotic foods	Dr. Jeyan Arthur Moses Indian Institute of Food Processing Technology Pudukkottai,Road Thanjavur Tamilnadu (613005)	Tamil Nadu	11,11,767	8,06,353	3,05,414
10.	Development of a novel biosensor for the detection of inflammatory cytokines	Dr. Megha KB Sree Chitra Tirunal Institute for Medical Science and Technology Sree ChitraTirunal Institute for Medical Sciences and Technology, BMT Wing,	Kerala	27,60,000	11,60,000	16,00,000

		Trivandrum				
11.	Bioengineered nano-gel mediated photo-sensitization and redox catalysis-based sustainable therapy for oral cancer and associated microbial infections.	Dr. Deepak Bharadwaj PVP National Institute of Pharmaceutical Education and Research, Guwahati NIPER Guwahati, Silakatamur, Changsari, kamrup rural Guwahati Assam (781101)	Assam	18,86,266	8,73,920	10,12,346
12.	Sequential bioprocessing of flower waste for high value products A biorefinery approach	Dr. Ipsita Chakravarty Visvesvaraya National Institute Of Technology Nagpur 263/J, Friends Colony, Katol Road, Nagpur, District)	Maharashtra	8,30,000	8,30,000	0
13.	Development and functional characterization of spray-dried lactose free milk powder using high molecular weight polysaccharide as adjunct	Dr. Richa National Dairy Research Institute KARNAL Haryana (132001)	Haryana	19,56,200	4,56,200	15,00,000
14.	Translation of Medical Reports and Support Systems for Underprivileged	Dr. Chandresh Kumar Maurya Indian Institute of Technology, Indore Department of Computer Science Engineering, Indian Institute of Technology Indore, Khandwa Road, Simrol Indore Madhya Pradesh (453552)	Madhya Pradesh	10,07,726	4,57,846	5,49,880
15.	Design and development of affordable low cost internal distractor for cranio maxillo-facial region	Dr. Chiranjit Sarkar Indian Institute of Technology, Patna Bihta, Patna-801106	Bihar	8,19,920	6,19,920	2,00,000
16.	Developing non-alcoholic Kombucha by crafting	Mr. Jignesh Prajapati Gujarat University, Navrangpura,	Gujrat	4,59,789	3,10,000	1,49,789

	SCOBY with novel synthetic consortia SynCon of probiotic microbes	Ahmedabad 380 009. Gujarat, India.				
17.	Formulation of vegan skincare products using methyl linolenate rationale on sustainable development from agricultural waste	Dr. Karthika Avinashilingam Institute for Home Science and Higher Education For Women Avinashilingam Institute for Home Science and Higher Education for Women, Bharathi Park Road,	Tamil Nadu	8,74,831	7,63,722	1,11,109
18.	Microneedle enabled smart nano-biodevice for isolation and rapid detection of multiplexed plant virus	Dr. Alok Pandya Indian Institute of Advanced Research, Puri Foundation for Education in India Koba Institutional Area, Gandhinagar - 382007 Gujarat, India.	Gujrat	15,59,741	8,83,960	6,75,781
19.	Revitalizing Chickpea Cultivation through Microbial Consortium in Iron-deficient Bihar Farmlands	Mr. Md Mahtab Rashid Bihar Agricultural University Mandan Bharti Agricultural College Agwanpur Bihar (852201)	Bihar	20,80,000	5,80,000	15,00,000
20.	Upscaling and Validation of Internet of Things IOT Based Multipurpose Pyrolyser for Residue Management Strategies under Temperate Environment of Himalayas.	Mr. Owais Ali Wani Sher-E-Kashmir University of Agricultural Sciences Technology of Kashmir, Shalimar, Srinagar Division of Soil Sciences and agricultural Srinagar Jammu and Kashmir (190025)	Jammu & Kashmir	11,15,000	7,45,000	3,70,000
21.	Biofilm engineering methods for enhancing the performance of microbial fuel cells	Dr. Sathish Kumar R Saveetha Institute Of Medical And Technical Sciences, Saveetha University Green Lab, Department of Biomaterials, Saveetha Institute of Medical and Technical Sciences SIMATS,	Tamil Nadu	8,22,440	8,22,440	0

		Saveetha Chennai Tamilnadu (600077)				
22.	Development of millets biorefinery Sequential production of plant-based protein, modified starches, and dietary fibre	Dr. Shweta M Deotale Visvesvaraya National Institute of Technology, South Ambazari Road, Nagpur, Maharashtra. Pin 440010 (India) Nagpur Maharashtra (440010)	Maharashtra	23,15,000	8,15,000	15,00,000
23.	An Automated Deep Feature Extractor for Diagnosis of Neuromuscular Disorders	Dr. Aditya Khamparia Babasaheb Bhimrao Ambedkar University Central University Vidya Vihar Raebareli Road Lucknow, Satellite Centre, Tikarmafi, Amethi, 227413	Uttar Pradesh	9,97,989	4,63,200	5,34,789
24.	Selenium and fatty acid enriched microalgae production from wastewater as a sustainable feed for aquaculture	Dr. Joyabrata Mal Motilal National Institute of Technology Allahabad MNNIT Allahabad, Teliarganj, Prayagraj - 211004 Allahabad Uttar Pradesh (211004)	Uttar Pradesh	13,64,864	7,88,920	5,76,944
25.	IoT enabled Solar-VRFB storage integrated smart charging station for sustainable e-mobility	Dr. Ankur Bhattacharjee Birla Institute of Technology and Science (BITS), Pilani, Hyderabad Campus, Secunderabad, Telangana Secunderabad Telangana (500078)	Telangana	19,44,070	6,93,936	12,50,134
26.	Design, Development and optimization of single motor driven drivetrain of solar power operated agricultural e-Tractor for small farmers	Mr. Sanjeev Kumar Central Mechanical Engineering Research Institute M.G. Avenue Durgapur West Bengal (713209)	West Bengal	17,44,860	13,38,960	4,05,900

27.	Development of wireless robot device powered by renewable energy sources for cleaning floating debris on still water bodies.	Mr. Shrikant Madhukar Deshmukh Central Mechanical Engineering Research Institute M.G. venue Durgapur West Bengal (713209)	West Bengal	19,55,900	8,60,000	10,95,900
28.	Superhydrophobic Coated 3D Printed Temporary Implants – A boon to the Patients	Dr. K Gobi Saravanan Sathyabama Institute Of Science And Technology Old Mahabalipuram Road, Rajivgandhi Salai Jpr Nagar, Chennai Tamilnadu (600119)	Tamil Nadu	11,53,835	10,48,835	1,05,000
29.	Synthesis and Application of Sustainable Carbon Materials for High Energy Lithium ion Capacitor	Dr. Katchala Nanaji International Advanced Research Center for Powder Metallurgy and New Materials P.O. Balapur, Hyderabad Balapur Telangana (500005)	Telangana	21,64,100	7,54,000	14,10,100
30.	Development and fabrication of biomarker-based diagnostic tool for early detection of neurological disorder	Ms. Vrushali Bhalchim Dr. D.Y. Patil Institute of Pharmaceutical Science and Research Sant tukaram nagar, Pimpri Pune Maharashtra (411015)	Maharashtra	16,78,897	3,70,000	13,08,897
31.	Prospects of future pulse milk variants using healthier pulse, chickpea - As an alternative to soy milk	Dr. Akalya Shanmugam Indian Institute of Food Processing Technology, Thanjavur Indian Institute of Food Processing Technology Ministry of Food Processing Industries, Government of India Pudukkottai Road, Thanjavur Tamil Nadu	Tamil Nadu	19,28,752	4,28,760	14,99,992
32.	Improving shelf life of	Dr. Reena Das	Tamil	19,39,069	9,28,800	10,10,269

	Padhaneer A competent technology for enhancing livelihood of palm tappers	Dr. Mgr Educational and Research Institute Dr. APJ Abdul Kalam Centre, Dr. MGR E&R Institute Adayalampattu, Erikarai CHENNAI Tamilnadu (60009)	Nadu			
33.	Development of an Artificial-Intelligence tool to aid in standardized remote management of Hand Fractures	Dr. Shivangi Saha All India Institute of Medical Sciences, New Delhi Ansari Nagar Delhi (110029)	Delhi	14,49,828	7,96,828	6,53,000
34.	Synthesis evaluation of organic biodegradable hydrogel-based bioadhesives for tissue engineering and surgical applications	Dr. Prashant Sahu Dr Harisingh Gour Central University H. NO. 59, Ward 4 Krishna Vihar Colony, Ware House Road, Gopalganj, Sagar Sagar Madhya Pradesh (470002)	Madhya Pradesh	4,40,000	2,94,100	1,45,900
35.	Development of Integrated Advanced Oxidation Technology for Sustainable Treatment of Dye Wastewater	Dr. Pavani Vadthya CSIR-Indian Institute of Chemical Technology, Uppal Road, Tarnaka, Hyderabad Hyderabad Telangana (5000 07)	Telangana	18,31,595	8,54,000	9,77,595