

Details of new projects sanction under the Scheme for Young Scientist and Technologists (SYST), programme in FY-2020-21

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	“Design and Development of soft robotic system for selective harvesting of coffee cherries	Dr.Meetha. V. Shenoy, Assistant Professor, Department of EEE, Birla Institute of Technology & Science (BITS) Pilani, Pilani Campus Rajasthan-333031	Rajasthan	39,77,600	7,33,200	12,00,000
2	“Mobile eye tracking technology for early detection of glaucoma”	Dr.Shonraj BG, Assistant Professor, Manipal Academy of Higher Education, Madhava Nagar, Manipal-576104, Udupi District, Karnataka	Karnataka	35,00,277	5,36,807	11,61,070
3	“Synthesis of High Strength and Corrosion Resistant Nano-Structured Stainless Steels by Selective Laser Melting	Dr.Shamanth V, Associate Professor, School of Mechanical Engineering, REVA University, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bangalore Karnataka-560064	Karnataka	34,30,196	6,49,268	0

4	Design and Development of Hybrid Delivery System for indigenously developed Green Cutting Fluid	Mr. Rahul Katna, Principal Investigator (DST Project), Delhi Institute of Tool Engineering, Maa Anandmayee Marg, Okhla Industrial Area, Phase-II, New Delhi – 110020	Delhi	34,40,448	9,09,316	0
5	Smart Sensor Network Platform for Irrigation Scheduling in Saffron and Rice in Kashmir, India	Dr.Eajaz Ahmad Dar, Scientist, Department of Agronomy, Sher E Kashmir University of Agricultural Sciences and Technology (SKUAST), Srinagar, Shalimar-190025, Srinagar, Jammu & Kashmir	Jammu and Kashmir	43,49,711	10,02,260	0
6	Artificial Intelligence based vision for grasp classification in prosthetic hands	Mr. Srikanth Vasamsetti, Senior Scientist, CSIR-Central Scientific Instruments Organisation (CSIO), Sector-30, Chandigarh-160030	Chandigarh	29,52,288	5,95,936	0
7	“Rationally Designed Flexible Three Dimensional Interconnected Piezoelectric Composites Foam for Highly Efficient Mechanical Energy Harvesting	Dr. R. Ananthakumar, Jr. Scientist, School of Advanced Research in Polymers: LARPM, Central Institute of Plastic Engineering & Technology, B/25, CNI Complex, Patia, Bhubaneswar-751024, Odisha	Odisha	29,70,260	5,49,282	0

8	“Design and development of induction based air assisted electrostatic sprayer	Dr. Bikram Jyoti, Scientist, ICAR – Central Institute of Agricultural Engineering, Nabibagh, Berasia Road, Bhopal-462038, Madhya Pradesh	Madhya Pradesh	36,18,260	8,28,282	0
9	Ultrafine Grain refinement through Low Plasticity Burnishing on WAAM Mgalloy for Aerospace and Automotive Applications	Dr .A. S. S. Balan, Assistant Professor, Department of Mechanical Engineering, National Institute of Technology (NIT) Karnataka, NH 66, Srinivas Nagar, Surathkal, 575025, Karnataka	Karnataka	16,09,200	5,54,800	0
10	Adoption of artificial intelligence for the management of potato diseases in Punjab	Mr. Amit Verma, Assistant Professor, Chandigarh University, Gharuan, Mohali-140413, Punjab	Punjab	32,03,464	5,13,112	0
11	“Technology for 3D printing of bifunctional biomimetic bone scaffolds for tumour therapy and bone regeneration	y Dr. K.P. Bhuvana, Sr. Technical Officer, Central Institute of Plastics Engineering & Technology (CIPET) T.V.K. Industrial estate, Guindy, Chennai - 600 032, Tamil Nadu	Tamil Nadu	30,91,392	7,38,064	0
12	Energy Aware Smart Street Lamp Design for Autonomous Maintenance using AI and Fog Computing	Dr. J. Angela Jennifa Sujana, Associate Professor, Mepco Schlenk Engineering College, Mepco Engineering College (PO)- - 626 005, Amathur, Virudhunagar, Sivakasi, Tamil Nadu	Tamil Nadu	25,25,188	3,91,363	7,66,625

13	“IoT based Intelligent Integrated Cyber Physical Sensor Framework for Building Fire Disaster Management (IC-FDM)”	Prof. Saikat Kumar Shome, Senior Scientist, CSIR Central Mechanical Engineering Research Institute (CMERI), M G Avenue, Durgapur- 713209, West Bengal	West Bengal	43,95,860	10,05,882	6,20,000
14	Designing and Fabrication of micro fluidic PDMS-Paper chip for early detection of neonatal sepsis”	Dr. Rajesh P S, Assistant Professor, Yenepoya Research centre, YENEPOYA UNIVERSITY, Mangalore-575018, Karnataka	Karnataka	28,47,900	8,30,700	0
15	“Development and evaluation of novel point of care non-invasive diagnostic method for leptospirosis	Dr. Sujit Kumar Behera, Assistant Professor, Department of Epidemiology and Public Health, Central University of Tamil Nadu, Thiruvarur– 610 005, Tamil Nadu	Tamil Nadu	21,16,530	4,77,180	13,59,750
16	An integrated technology for treatment of micro plastics and plastic derived compounds from municipal landfill leachate	Dr. Ramani Kandasamy, Associate Professor, Department of Biotechnology, School of Bioengineering, SRM Institute of Science and Technology, SRM University, Kattankulathur-603 203	Tamil Nadu	40,14,296	7,80,768	11,67,000

		Kanchipuram district, Tamil Nadu				
17	Value Addition for Nutrient Bioactive Compounds by Layer Deposition Using 3D Bio-printing	Dr.Hemananthan Eswaran, Anna University, Regional Campus, Coimbatore, Tamil Nadu- 641046	Tamil Nadu	24,27,260/	6,07,900	3,85,400
18	Design and testing of robust, high efficient, low polluting LPG porous burners for household applications	Dr. Parthasarathy P, Assistant Professor, Department of Mechanical Engineering, National Institute of Technology (NIT) Karnataka, NH 66, Srinivas Nagar, Surathkal, 575025,Karnataka	Karnataka	29,34,360	9,89,360	15,47,000
19	“Detection of Food Adulteration using IR Detector	Dr. D. Selvakumar, Associate Professor, Department of Electronics and Communication Engineering, Sri Krishna College of Engineering and Technology, Coimbatore – 641008, Tamil Nadu	Tamil Nadu	Rs. 36,72,924	8,31,510	18,25,982
20	“Developing bioplastic blends for food packaging using polyhydroxyalkanoate and violacein from Himalayan	Dr. Vijay Kumar, CSIR-Institute of Himalayan Bioresource Technology (IHBT), NH-154, Holta, Palampur 176061, Himachal Pradesh	Himachal Pradesh	39,94,272	8,62,224	1,60,000

	bacterium Iodobactersp					
21	Development and evaluation of nanoadsorbent filter system for dairy plant effluent treatment	Dr.Dinesha, B. L, Centre for Nanotechnology, Dept. of Processing and Food Engineering. College of Agricultural Engineering, University of Agricultural Sciences, Raichur-584 104, Karnataka	Karnataka	43,16,778	10,80,913	8,98,617
22	“Hybrid calix[4] arene fluorescence paper based device for recognitions and determination of pesticides	Dr.Pinkesh kumar Gopalbhai Sutariya, Assistant Professor, Department of Chemistry, Bhavan's Shri I.L.Pandya Arts Science and Smt. J.M.Shah Commerce College, Dakor, Kheda Distt, Dakor-388225, Gujarat	Gujarat	48,44,880	6,88,960	25,00,000
23	Synthesis, Characterization and testing of immune-potential of nano-particles adjuvanted oral vaccine of Salmonella Typhimurium in poultry	Dr. Yashpal Singh, Department of Veterinary Physiology and Biochemistry, G B Pant University of Agriculture Technology, B-252 Avas Vikas Colony, Kichha, Udham Singh Nagar, Pantnagar-263148, Uttarakhand,	Uttarakhand	44,03,916	9,44,568	5,39,300
24	“Engineering Intervention for Mechanization of Mozzarella Cheese Manufacture at Cottage Scale”	Dr.Gopika Talwar, Department of Dairy Engineering, Guru Angad Dev Veterinary and Animal Sciences University, Ferozpur Road, Ludhiana - 141012, Punjab	Punjab	35,91,259	4,87,882	9,25,000

25	Design and Development of a knee joint assistive apparatus for elderly and obese persons	Dr.C.Mythili, Assistant Professor, Department of Electrical and Electronics Engineering, University College of Engineering, Konam, Nagercoil-629004, Tamil Nadu	Tamil Nadu	33,13,516	5,03,537	9,68,950
26	Recycling of Machining and Packing Waste via an Innovative Additive Manufacturing process	Mr. Malkeet Singh, Indian Institute of Technology Ropar, Nangal Road, Hussainpur, Rupnagar-140001, Punjab	Punjab	38,07,216	5,14,272	10,00,000
27	Sustainable production of insect proteins with new technologies for protein-energy malnutrition	Dr.Divya, Assistant Professor, Chandigarh University, Sahibzada Ajit Singh Nagar, NH 95, Chandigarh- Ludhiana Highway, Mohali, Punjab 140413	Punjab	36,90,016	7,48,912	10,00,000
28	“Development of nutraceutical supplement for diarrheal conditions	Mr. Satyendra Pratap Singh, Pharmacognosy Division, CSIR-National Botanical Research Institute (NBRI), Rana Pratap Marg, Lucknow, 226001	Uttar Pradesh	23,25,888	6,04,544	5,00,000
29	Defluoridation of Water Using Low Cost Domestic Clay Filters by Involving Potter Community of Rural Rajasthan	Dr. Laxmi Parwani, Department of Bioscience and Biotechnology, BanasthaliVidhyapith, P.O. Banasthali, District Tonk, Rajasthan- 304022,	Rajasthan	31,42,117	5,15,991	4,99,350
30	“Development of a foldable smart live fish transportation system for distant trade of table fish”	Dr.AseefhaliBankapur, Associate Professor, Department of Atomic & Molecular Physics, Manipal Academy of Higher Education, Madhav Nagar, Near Tiger Circle, Manipal, Udupi- 576104, Karnataka,	Karnataka	39,16,586	1,02,000	34,06,533

31	“Sarathi – An IoT based complete health assistant for the Mother and the child”	Ms. Nupur Choudhury, Assistant Professor, Department of Computer Science & Engineering, School of Technology, Assam Don Bosco University, Azara, Guwahati-781 017, Assam	Assam	40,25,516	7,18,412	12,45,000
32	“Development of seaweedbased nutraceutical formulation as dietary supplements: phytosterol and fucoidan as anti-diabetic and anticholesterolemic) as active ingredients	Dr. G Seghal Kiran, Assistant Professor, Department of Food Science and Technology, Pondicherry University, Puducherry 605014, Tamil Nadu	Tamil Nadu	45,99,915	6,05,309	14,98,600
33	Neuroprotective Phytoceutical NEURO-STRIPS for Alzheimer's disease	Dr. Sharada L Deore, Associate Professor, Govt. College of Pharmacy, Kathora Naka, Amravati444604, Maharashtra	Maharashtra	33,77,280	5,60,880	10,62,000
34	“Non-chemical management of stored-grain moths using flexible light-trap”	Dr. Guru P. N., Scientist (Agril. Entomology), Division of Food Grains and Oilseeds Processing, ICAR-Central Institute of Post-Harvest Engineering & Technology (CIPHET), Ludhiana- 141004, Punjab	Punjab	48,58,499	13,75,671	10,56,370
35	NanoBeeLure – A novel nano based honeybee lure dispense mechanism to increase pollination in vegetable crops	Dr. M Praghadeesh, Department of Nano Science & Technology, Tamil Nadu Agricultural University, Lawley Road, Coimbatore-641003, Tamil Nadu	Tamil Nadu	46,76,140	8,41,629	1,94,759
36	“Mapping and quantifying ecosystem service provisioning in Kashmir, India under changing climate	Sh. GowharMeraj, Department of Ecology, Environment and Remote Sensing, Government of Jammu and Kashmir, SDA Colony Bemina, Srinagar190018, Jammu & Kashmir	Jammu and Kashmir	31,27,032	8,17,344	6,25,000

37	“Design and Development of an Eco-Friendly Post-Harvest Technology for Simultaneous Dehydration and Disinfection of Agro Crops	Sh. Venkatesh T, Scientist, CSIR- National Institute for Interdisciplinary Science & Technology (NIIST), Industrial Estate, Paapanamcode, Thiruvananthapuram- 695019, Kerala	Kerala	38,22,162	7,26,761	11,35,999
38	In-situ diagnosis and digital cataloging of plant-pathogenic fungi through Foldscope Microscopy - A frugal science approach	Dr. P. Mooventhan, Scientist, ICAR- National Institute of Biotic Stress Management, Indian Council of Agricultural Research, Baronda, Raipur, Chhattisgarh - 493 225	Chhattisgarh	41,11,690	7,83,021	7,50,000
39	Development of a foldable smart live fish transportation system for distant trade of table fish”	Dr. Parvathy U, Scientist, ICAR-Central Institute of Fisheries Technology, Willingdon Island, Matsyapuri P.O., Kochi-682029, Kerala,	Kerala	48,77,886	9,45,802	2,50,000
40	“Low cost biofortification kit: A sustainable technology tool for nutrition, yield and income security of farmers	Dr. Nitin Narayan Gudadhe, Assistant Professor (Agronomy), Department of Agronomy, N. M. College of Agriculture, Navsari Agricultural University, Navsari 396 450, Gujarat,	Gujarat	25,88,674	8,50,357	50,000
41	“Developing cheaper Nutrigel for improving water and nutrient use efficiency in degraded lands of Bundelkhand	Dr. Avijit Ghosh, Scientist, Indian Grassland and Fodder Research Institute (IGFRI), Near Pahuj Dam, Gwalior Road, Jhansi-284003, Uttar Pradesh,	Uttar Pradesh	39,13,718	9,14,967	8,33,573
42	“Development and Validation of Indigenous Kit for Detection of Food Spoilage	Dr. Gagandeep Singh, Department of Chemistry, Indian Institute of Technology (IIT)-Roper, Rupnagar,	Punjab	39,28,851	7,78,978	3,34,425

		Ropar-140001, Punjab				
43	Application of Carbon Nano tubes For Wastewater Treatment/ Purification	Ms. Anu Sharma, Chandigarh University, Ghraun, Mohali-140413, Punjab	Punjab	32,13,600	5,73,400	13,60,000
44	Design and Development of Coconut Harvesting Robot	Dr. Ravi Kumar Mandava, Assistant Professor, Maulana Azad National Institute of Technology (MANIT)- Bhopal, Link Road Number 3, Near Kali Mata Mandir, Bhopal-462003, Madhya Pradesh	Madhya Pradesh	23,16,666	7,86,822	1,01,500
45	Process Engineering for Green Polymer Nanocomposite (Bioplastic) from Agricultural Residue for Food Packing Application	Dr. Vineet Aniya, Scientist-C, CSIR- Indian Institute of Chemical Technology (IICT), Uppal Road, Tarnaka, Hyderabad-500007, Telangana	Telangana	71,21,025	10,78,232	20,14,342
46	Design and Development of Acoustic Based Gadget for Maturity Detection in Melons	Er. Aradwad Pramod Pandurang, Scientist, Divison of Agricultural Enigneering, ICAR-Indian Agricultural Research Institute (IARI), Pusa Campus, New Delhi- 110012	Delhi	55,16,205	6,76,368	31,15,597
47	“Nutritional enrichment of agricultural wastes with essential fatty-acid producing Thraustochytrids as improved feed for aquaculture	Dr. Natarajan Velmurugan, Scientist, CSIR-North East Institute of Science and Technology, Branch Laboratory- Itanagar, G-Sector, Naharlagun 791 110, Arunachal Pradesh	Arunachal Pradesh	42,73,690	7,35,021	15,00,000
48	“Revival of Traditional practices of, use of Chay root for Colour-fast Red dye	Dr. Mona Sadasivam, Shri AMM MurugappaChettiar Research Centre, Taramani, Chennai-600113, Tamil Nadu	Tamil Nadu	48,58,920	14,70,640	0

49	“Prospecting and Assessment of certain indigenous recipes of Badri Tulsi from Uttarakhand highlands	Dr. Pooja Joshi, Uttarakhand State Council for Science and Technology (UCOST), VIGYAN DHAM, Jhjara, Premnagar, Dehradun – 248007, Uttarakhand	Uttarakhand	45,75,744	14,19,248	2,00,000
50	“A novel bioreactor for biodegradation of marine plastic litter in coastal Andhra Pradesh	Dr.Shubhalakshmi Sengupta, Department of Sciences and Humanities, Vignan’s Foundation for Science Technology and Research (VFSTR), Vadlamudi522213, Guntur, Andhra Pradesh	Andhra Pradesh	29,29,608	6,83,736	7,18,000
51.	Development of Pervaporation process for Separation of Lycopene from Tomato Waste	Dr.Shyam M Kodape, Assistant Professor, Department of Chemical Engineering, Visvesvaraya National Institute of Technology (VNIT)- Nagpur, South Ambazari Road, Nagpur440010, Maharashtra	Maharashtra	25,38,260	7,40,042	0
52.	Smartphone Enabled Peer Led Diabetes Care for Last Mile Connectivity in Rural India	Dr. Anirudh Gaurang Gudlavalleti, Indian Institute of Public Health, Hyderabad, Public Health Foundation of India, Plot No.1, ANV Arcade, Amar Cooperative Society, Kavuri Hills Madhapur, Hyderabad-500033, Telangana	Telangana	50,39,727	14,85,630	6,12,025