

**Details of new projects sanction under the Scheme for Young Scientist and Technologists (SYST), programme FY-2021-22**

<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.	Neuroprotective Phytoceutical Neuro-STRIPS for Aizheimer's Disease	Dr. Sharada L Deore GOVT. College of Pharmacy, Kathora Naka, Amravati - 444604, Maharasthra	Maharashtra	8,06,023	8,06,023	0
2.	Design and development of an air assisted recycling tunnel sprayer for horticultural crops	Dr. Bikram Jyoti ICAR Central Institute of Agricultural Engineering, Bhopal, Madhya Pradesh	Madhya Pradesh	7,55,754	7,55,754	0
3.	Artificial Intelligence and IoT based UAV System for Crop Health Moinitoring and Forecasting	Dr. Shrivishal Tripathi Dr. SPM International Institute of Informatin Technology Naya Raipur Plot No.7, Sector 24, Atal Nagar, Chhattisgarh - 493661	Chhattisgarh	3,83,132	3,83,132	0
4.	Synthesis of high strength and corrosion resistant nano-structured stainless steels bv selective laser melting	Dr. Shamanth V School of Mechanical Engineering, REVA University, Rukmini Knowledge Park, Kattigenahalli, Bangalore, Karnataka	Karnataka	10,60,183	10,60,183	0
5.	Value Addition for Nutrient Bioactive Compounds by Layer Deposition Using 3D Bio-printing"	Dr. Hemananthan Eswaran Anna University, Regional Campus, Coimbatore, Tamil Nadu- 641046	Tamilnadu	13,08,960	13,08,960	0

6.	Design and Development of Acoustic Based Gadget for Maturity Detection in Melons	Er. Aradwad Pramod Pandurang ICAR-Indian Agricultural Research Institute, Pusa Campus, New Delhi. 110012	Delhi	10,59,878	6,59,878	4,00,000
7.	Authomation of farming tools for smart farming using android application (A gaming approach)	Md. Sharfuddin Waseem Department of Computer Science & Engineering, Kakatiya Institute of Technology and Science, Mandal, Warangal	Tamil Nadu	10,17,412	10,17,412	0
8.	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, Jhara, Premnagar, Dehradun – 248007, Uttarakhand.	Uttarakhand	7,52,821	7,52,821	0
9.	Non-chemical management of stored grain moths using flexible light-trap	Dr. Guru P.N. ICAR- (Agri, Entomology), Division of Food Grains and Oilseeds Processing, Central Insitute of Post Harvest Engineering & Technology (CIPHET), Ludhiana - 141004, Punjab	Punjab	3,90,722	3,90,722	0
10.	Capacitive deionization for salt recovery from RO reject	Ms. Santhoshini Priya T Anna University, Chennai 25-Guindy Campus, Tamilnadu.	Tamil Nadu	2,81,279	2,81,279	0
11.	Hybrid calix[4] arene fluorescence paper based	Dr. Pinkeshkumar Gopalbhai Sutariya	Gujarat	7,00,000	7,00,000	0

	device for recognitions and determination of pesticides	Department of Chemistry, Bhavan's Shri I.L Pandya Arts Science and Smt. J.M.Shah Commerce College, Dakor, Kheda Distt. Dakor				
12.	Laser additive manufacturing of tungsten carbide tool for friction stir welding of aluminium to steel	Dr. Shitanshu Shekhar Chakraborty CSIR-Central Mechanical Engineering Research Institute.- Durgapur, West Bengal	West Bengal	8,35,516	8,35,516	0
13.	Design and Development of a knee joint assistive apparatus for elderly and obese persons	Dr. C. Mythili Department of Electrical and Electronics Engineering, University College of Engineering, Konam, Nagercoil - 629004	Tamil Nadu	10,40,235	8,00,658	2,39,577
14.	Technology for 3D printing of bifunctional biomimetic bone scaffolds for tumor therapy and bone regeneration	Dr.K.P. Bhuvana Central Institute of Plastic Engineering and Technology (CIPET), T.V.K. Industrial Estate, Guindy, Chennai - 600032, Tamil Nadu	Tamil Nadu	12,54,600	12,54,600	0
15.	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	12,48,007	9,48,007	3,00,000
16.	Developing bioplastic blends for food packaging using	Dr. Vijay Kumar CSIR- Institute of Himalayan Bio-resource Technology	Madhya Pradesh	15,96,221	15,96,221	0

	polyhydroxyalkanoate and violacein from Himalayan bacterium Iodobacter sp	(IHBT), NH-154, Holta, Palampur - 176061				
17.	Process Engineering for Green Polymer Nanocomposite (Bioplastic) from Agricultural Residue for Food Packing Application	Dr. Vineet Aniya CSIR-Indian Institute of Chemical Technology (IICT), Uppal Road, Tarnaka, Hyderabad -500007, Telangana	Telangana	19,44,466	13,51,986	5,92,480
18.	Nano BeeLure - A novel nano based honeybee Isure dispense mechanism to increase pollination in vegetable crops	Dr. M Praghadeesh Department of Nano Science & Technology, Tamilnadu Agricultural University, Lawley Road, Coimbatore - 641003	Tamil Nadu	17,19,644	16,89,844	29,800
19.	Energy aware Smart Street Lamp Design for autonmous manitenance using AI and Fog Computing	Dr. J Angela Jennifa Sujana Mepco Schlenk Engineering College, Mepco Engineering College (PO) - 626005, Amathur, Virudhanagar, Sivakasi, Tamilnadu	Tamil Nadu	7,23,466	7,23,466	0
20.	Revival of traditional practies of use of chay root for colour-fast red dye	Dr. Mona Sadasivam Shrei AMM Murugappa Chettiar Research Centre, Taramani, Chennai - 600113, TamilNadu	Tamil Nadu	9,87,987	6,87,987	3,00,000
21.	Development of fresh water pearl culture unit	Dr. Munesh Singh Pandit Dwarka prasad Mishra	Madhya Pradesh	4,11,548	3,21,568	89,980

	based on IoT - Data Analytics	Indian Institute of Information Technology Design and Manufacturing Jabalpur, Dumna Airport Road, Jabalpur - 482005, Madhya Pradesh				
22.	Mapping and quantifying ecosystem service provisioning in Kashmir, under changing climate	Mr. Gowhar Meraj Department of Ecology, Environment and Remote Sensing, Government of Jammu and Kashmir, Gladeni, Transport nagar Jammu (Winter); Bemina, Srinagar (Summer)	J&K	6,76,349	6,76,349	0
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 -	Uttarakhand	16,89,849	16,89,849	0
24.	IoT based soil parameter tester for Comparison for fertilizer free natural farming and chemical fertilizer based farming	Dr. Ganesh C. Patil Center for VLSI and nanotechnology, Visvesvaraya National Institute of Technology, Nagpur - 440010	Maharashtra	5,26,507	5,26,507	0
25.	Rationally Designed Flexible Three-Dimensional Interconnected	Dr. R Ananthakumar Central Institute of Plastic Engineering and Technology (CIPET), Bhubaneswar, Orissa	Orissa	10,00,000	10,00,000	0

	Piezoelectric Composites Foam for Highly Efficient Mechanical Energy Harvesting					
26.	“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	13,40,695	8,90,695	4,50,000
27.	Design and Development of a Hybrid Delivery System for Indigenously developed Green Cutting Fluid	Mr. Rahul Katna Delhi Institute of Tool Engineering, New Delhi.	New Delhi	5,19,599	5,19,599	0
28.	Mobile eye tracking technology for early detection of glaucoma	Dr. Shonraj BG Manipa Academy of Higher Education, Madhava Nagar, Manipal - 576104, Udupi District, Karnataka	Karnataka	12,55,700	8,25,700	4,30,000
29.	In-suit diagnosis and digital cataloging of plant pathogenic fungi through Foldscope Microscopy - A Frugal science approach	Dr. P. Mooventhan ICAR - National Institute of Biotic Stress Management, Indian Council of Agricultural Research, baronda, Raipur, Chhattisgarh - 493225	Chhattisgarh	12,74,029	9,74,029	3,00,000
30.	Design and Development of an Eco-Friendly Post - Harvest Technology for	Sh. Venkatesh CSIR- National Institute for Interdisciplinary Science&	Kerala	8,83,898	2,65,760	6,18,138

	Simltaneous Dehydration and Disinfection of Agro Crops	Technology (NIIST), Industrial Estate, Paapanamcode, Thiruvananthapuram - 695019				
31.	Development of a foldable smart live fish transportation system for distant trade of table fish	Dr. Parvathy U ICAR-Central Institute of Fisheries Technology, Willingdon Island, Matsyapuri P.O., Kochi-29, Kerala	Kerala	15,18,281	12,18,281	3,00,000
32.	IoT based Intelligent Integrated Cyber Physical Sensor Framework for Building Fire Disaster Management (IC-FDM)	Prof. Saikat Kumar Shome CSIR Central Mechanical Engineering Research Institute (CMERI), M G Avenue, Durgapur - 713209, West Bengal	West Bengal	16,27,122	14,34,018	1,93,104
33.	“Low cost biofortification kit: A sustainable technology tool for nutrition, yield and income security of farmers	Dr. Nitin Narayan Gudadhe Department of Agronomy, N. M. College of Agriculture, Navsari Agricultural University, Navsari 396 450, Gujarat	Gujarat	3,80,480	3,80,480	0
34.	Developing cheaper nutrigel for improving water and nutrient use efficiency in degraded lands of Bundelkhand	Dr. Avijit Ghosh Indian Grassland and Fodder Research Indsitute (IGFRI), Near Pahuj Dam, Gwalior Road, Jhansi - 284003	Uttar Pradesh	10,47,229	10,37,229	10,000
35.	Development and evaluation of nanoadsorbent filter system for dairy plant	Dr. Dinesh Centre for Nanotechnology, Dept. Of Processing and Food Engineering, Cllege of	Karnataka	13,33,700	13,33,700	0

	effluent treatment	Agricultural Engineering, University of Agricultural Science, Raichur - 584104				
36.	Nutritional enrichment of agricultural waste with essential fatty acid producing thraustochytrids as improved feed for aquaculture	Dr. Natrajan Velmurugan CSIR - North East Institute of Science and Technology, Branch Laboratory - Itanagar, G - Sector, Naharlagun - 791110	Arunachal Pradesh	2,50,880	2,50,880	0
37.	Artificial Intelligence based vision for grasp classification in prosthetic hands	Mr. Srikanth Vasamsetti CSIR- Central Scientific Instruments Organization (CSIO), Sector - 30, Chandigarh - 160030	Chandigarh	7,91,576	7,91,576	0
38.	Sophisticated Flexible Super capacitors for High Energy storage application based on Nano materials	Dr. Chidurala Shilpa Chakra Institute of Science and Technology, Ukatpally, Telangana	Telangana	9,00,000	9,00,000	0
39.	IoT enabled performance evaluation system for transformers used in rural areas	Mr. Raja Raghavan M CSIR CSIO, CSIR Madras Complex, Chennai, Tamilnadu.	Tamilnadu	7,24,644	7,24,644	0
40.	Design and Development of Sensor based early pest detection technology	Er. Utpal Ekka Division of Agricultural Engineering, ICAR - Indian Agricultural Research Institute	New Delhi	2,00,000	2,00,000	0



		(IARI), Pusa Campus, New Delhi - 110012				
41.	Smart sensor network, platform for irrigation scheduling in saffron and rice in Kashmir, India	Dr. Ejaz Ahmad Dar Department of Agronomy, Sher-E-Kashmir University of Agricultural Science and Technology(SKUAST), Srinagar, Shalimar - 190025, Srinagar	J&K	8,39,675	8,39,675	0
42.	Design and development of soft robotic system for selective harvesting of coffee cherries	Dr. Meetha. V. Shenoy Department of EEE, Birla Institute of Technology & Science (BITS) Pilani, Pilani Campus Rajasthan - 333031	Rajasthan	11,15,223	9,55,223	1,60,000
43.	Development and validation of Indigenous kit for Detection of Food Spoilage	Dr. Gagandeep Singh Department of Chemistry, Indian Institute of Technology (IIT) Ropar, Rupnagar, Ropar - 140001	Punjab	12,00,000	12,00,000	0
44.	Development and field validation of a low-Cost Rainbow trout Hatchery Technology for Livelihood Enhancement of Ladakhi Population	Dr. Mohammed Iqbal M Mir Shre-E-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K) Merakabad Raod, Shalimar - 190025, Srinagar	J&K	10,57,578	10,57,578	0
45.	Water Security through Inventory and Revival of Springs using Hydro-	Mr. Vaibhav Eknath Gosavi, Scientist-B, Department of Centre for Land and Water	Uttarakhand	51,44,644	10,76,109	12,52,759

	geological Action Research in Cold Desert Region of Himachal Pradesh	Management, G. B. Pant National Institute of Himalayan Environment Sustainable Development, Kosi – katarmal, Almora-263643, Uttarakhand.				
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