

Sr.No	Name of Scheme (Country)	Project Title	PI Name	Name of Grantee Institution	Location	District	State/UT	Intended Outcome of the project (No more than 25 words)	Major Outcome of the project (Not more than 50 words)	Possible Categorisation under National Programmes*	Duration of the project (Start date) dd/mm/yy	Duration of the project (End date) dd/mm/yy	Total Sanctioned Cost (In Rs.)	Amount (In Rs.)/Sanction order issued for 1st yr. Grant
1	Australia	Advanced Manufacturing of New High Entropy Alloys	Prof. B S Murty	Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras		Chennai	Tamil Nadu	Development of new high performance alloys and components that will be optimized for either high temperature or wear resistance performance	Increase the service temperature of the best performing superalloys by 170 degrees celsius, that will result to a		23.10.2017	22.10.2020	40,84,800/-	13,00,000/-
2	Austria	Biogas for the people: sustainable stylization strategies in Indian and Austria for agricultural, agro-industrial and municipal residues utilization for robust biogas production process	Dr. Vivekanand	Center for Energy and Environment Malaviya National Institute of Technology (MNIT) Jaipur	Malviya Nagar	Jaipur	Rajasthan				29-08-2017	(2 Years) 28-08-2019	8,90,000/-	4,45,000/-
3	Austria	Development of CAD tools for synthesis, Optimization and Verification of Digital Circuits using Memristors	Dr. Kamalika Dutta	Department of Computer Science and Engineering, National Institute of Technology, Meghalaya	Laitumkrah	Shillong	Meghalaya				03-07-2017	(2 Years) 02-07-2019	8,65,500/-	3,90,500/-
4	Austria	QoS-aware Energy Management scheme for Self-Sustainable Data Centers using Renewable Energy Sources	Dr. Neeraj Kumar	Computer Science & Engineering Department, Thaper University	Bhadson Road	Patiala	Punjab				11-12-2017	(2 Years) 10-12-2019	14,95,000/-	8,38,500/-
5	Austria	Targeting Cancer Stem Cells Through One Drug Multi-Target Approach (microtubule inhibition vascular disruption and anti-angiogenesis)	Dr. Vinod Kumar	Laboratory of Organic and Medicinal Chemistry, Centre for Pharmaceutical Sciences and Natural Product, Central University of Panjab	Mansa Road	Bathinda,	Punjab				09-06-2017	(2 Years) 08-06-2019	9,02,000/-	4,51,000/-
6	Austria	Onset of solar flares and flares and flare-CME associations	Dr. Bhuwan Joshi	Udaipur Solar Observatory (Physical Research Laboratory) Dewali, Badi Road, Udaipur	Fateh Sagar Lake	Udaipur	Rajasthan				22-06-2017	(2 Years) 21-06-2019	8,21,500/-	4,56,500/-
7	Austria	"Evaluation of Bioenergetic functions in mitochondria of Leishmania Parasites and mammalian macrophages	Prof. Mitali Chatterjee	Department of Pharmacology, Institute of Postgraduate medical Education & Research, 244B, Acharya J.C Bose Road	A.J.C Bose Road	West Bengal	Kolkata				28-06-2017	(2 Years) 27-06-2019	6,20,500/-	2,15,500/-
8	Austria	Probing the Foundations of Quantum Mechanics in Neutrino Oscillations	Subhashish Banerjee	IIT Jodhpur	Nagaur Road	Jodhpur	Rajasthan				21-06-2017	(2 Years) 20-06-2019	10,08,500/-	4,68,500/-
9	Austria	Neurodegeneration with Brain Iron Accumulation: Iron-biomarker and therapeutic options	Dr. Moganthy R. Rajeswari	Department of Biochemistry, All India Institute of Medical Sciences	Ansari Nagar	New Delhi	New Delhi				08-08-2017	(2 Years) 07-08-2019	9,79,000/-	4,89,500/-
10	Austria	Defining optimal imaging sequences for 3 Tesla MR and image deformation techniques for dose reporting for MR guided brachytherapy of cervical cancer	Dr. Supriya Jayant Sastri	Department of Radiation Oncology, Advanced Centre for Treatment, Research and Education in Cancer (ACTREC)	Khargha	Navi Mumbai	Mumbai				20-02-2018	(2 Years) 19-02-2020	7,44,180/-	3,72,090/-
11	Belgium	Belgian- Indian Networking in the field of the GMO Research and Analysis	Dr. Gurinderjit Randhawa	ICAR- NBPGR	New Delhi	North	Delhi				08.02.2018	07.02.2021	15,93,500/-	27,500/-
12	Belgium	Computational Investigations For The Linear And Nonlinear Optical Properties Of Metal And Covalent Organic Frameworks : Application For Detection Of Molecules	Dr. Ayan Datta	Indian Association for the cultivation of Science		Kolkata	West Bengal				09.01.2018	08.01.2021	17,64,000/-	5,88,000/-
13	Belgium	Investigating The Mechanisms of Genetic Disorders Using the zebrafish model system( Gen-Zemo)	Dr. Anirban Chakraborty, Mangalore	Nitte University		Mangalore	Tamil Nadu				15.02.2018	14.02.2021	10,69,000/-	2,49,000/-
14	Belgium	Hierarchical, lightweight Nanocomposite Reinforced with Electrospun Nono - Fibres for Structural Applications	Dr. Soumitra Satapathi	Indian Institute of Technology, Roorkee		Roorkee	Uttarakhand				16.12.2017	15.12.2020	13,51,000/-	3,22,000/-

15	Canada	Development of Low Cost High Performance PEMFC Liquid Cooled Stack for Small Stationary Applications	Dr.G.Velayutham	Sainergy Fuel Cell India Pvt Ltd., Chennai		Chennai	Tamil Nadu	The project focuses on advanced Fuel Cells technology for portable electronics applications through development of a low-cost, high-performing and robust Membrane Electrode Assembly (MEA) for a liquid cooled fuel cell stack.	This project will develop a low-cost, high-performing and robust membrane electrode assembly (MEA) for a liquid cooled fuel cell stack. The main objectives of this project are Design and develop low cost MEA designs for a liquid cooled fuel cell stack, Design and develop a broad RH tolerant MEA, Design and develop low cost plates, Design and develop stack, MEA integration into plate/hardware assembly, Develop BOP and test fuel cell system. The performance objective is to Design and optimize the MEA for a target performance of 0.5A/cm <sup>2</sup> at 0.7 V with a hydrogen/air.	Smart Cities	N.A.	N.A.	150,00,000	0
16	Canada	Mechatronic Variable Speed Drive Transmission System	Dr. Ajit Jindal	TATA Motors Ltd., Pune		Pune	Maharashtra	The project focuses on Cost-Effective & Efficient solution for Automobile Industry for Electric Vehicles with an automatic and uniquely-designed Two Speed Transmission system.	The project will come out with viable about 10 prototype components for better drivability & efficiency targeting the Clean Energy and FAME initiatives on Electric Vehicles at a reduced cost. The test vehicle will demonstrate the following key aspects: (a) Using innovative and first of its kind 2 speed un-interrupted torque transmission during gear shift for Electric vehicles; (b) This results in improved range of 4% - 8% over existing battery package in City Drive Cycle mode with upto 8%-10% improvement in gradeability (c) Reduction in battery pack size. Life.	Make In India	N.A.	N.A.	150,00,000	0
17	Canada	Development of High Power RF Amplifier for low field Magnetic Resonance Imaging Applications	Col Sharath Kumar Bhat (Retd)	Kaynes Technology India Pvt Ltd., Mysore		Mysore	Karnataka	The project focuses on design & development of High Power Amplifiers with optimal performance and reliability, suitable for use in low- and mid-field MRI applications (0.3 to 1.0 Tesla), for affordable healthcare at rural & urban areas.	The outcome of this project is the innovation of a new/next generation of the high power RF amplifier portion of more affordable MRI machines which can provide imaging equivalent to that of the higher-field machines for the majority of requirements along with more flexibility to enable use in surgery applications.	Swasth Bharat	N.A.	N.A.	150,00,000	0
18	Egypt	Damping enhancement of laminated composite plate using CNT	Prof. S. Devindran	School of Mechanical Engineering, VIT University, India	Kelambakkam Road	Vandalur	Chennai				29.09.2016	29.09.2018	Rs 6,30,000/-	Rs. 3,15,000/-
19	Egypt	Performance Improvement in Indoor Visible Light Communication (VLC) System using MIMO-OFDM based Techniques	Prof. Andnd Srivastava	Electronics and Communication Engineering, Room No. A-302, IIIT-Delhi, India	Okhla	New Delhi	Delhi				08.11.2016	08.11.2018	Rs 6,30,000/-	Rs. 3,15,000/-
20	Egypt	Molecular characterization of major candidate genes associated with milk quality in Egyptian and Indian buffaloes	Dr. Vinod Chhokar	Department of Bio & Nano Technolgy, Guru Jambheshwar University of Science & Technology, Hisar (Haryana), India		Hisar	Haryana				08.11.2016	08.11.2018	Rs.6,60,000/-	Rs. 3,30,000/-

21	Egypt	Modelling implementation of free space optical transceiver for next generation optical communication application	Dr Vijay Janyani	Department of Electronics and Communication Engineering, MNIT Jaipur, India		Jaipur	Jaipur			08.11.2016	08.11.2018	Rs.6,30,000/-	Rs. 3,15,000/-
22	Egypt	Organic-inorganic Hybrid Mesoporous Materials as Carriers of Anti-inflammatory Drugs for controlled Delivery Systems."	Prof. Asim Bhaumik	Department of Material Science, Indian Association for the Cultivation of Science 2A & B Raja S C Mullick Road, Jadavpur, Kolkata, India	Raja S C Mullick Road	Jadavpur	Kolkata			08.11.2016	08.11.2018	Rs 6,30,000/-	Rs. 3,15,000/-
23	Egypt	High performance 1D metal/oxide/ Type II QDs hybrid nanoarchitecture for solar energy conversion	Chinnakonda S. Gopinath	Catalysis Division, National Chemical Laboratory, Dr Homi Bhabha Road, Pune, India	Dr Homi Bhabha Road		Pune			08.11.2016	08.11.2018	Rs 7,20,000/-	Rs. 3,60,000/-
24	Egypt	Nano materials-RO antifouling membrane formulations for water desalination	Dr. Raghuram Chetty	Chemical Engineering Department, Indian Institute of Technology Madras, Chennai, India		Madras	Chennai			08.11.2016	08.11.2018	Rs 6,30,000/-	Rs. 3,15,000/-
25	Egypt	Plastic to Fuel (p2f): Gasification and Pyrolysis of Waste Plastic for Fuel Generation through Nano Catalytic Conversion	Mr. Paitu Acharjee	Environment Technology Development Division, The Energy and Resource Institute (TERI), Darabri Seth Block, India Habitat Centre, Lodhi Road, New Delhi, India	Lodhi Road	New Delhi	Delhi			04.10.2016	04.10.2018	Rs 6,30,000/-	Rs. 3,15,000/-
26	Egypt	Molecular-physiological Characterization of Epigenetic Components Affecting Plant Development Under Drought and High Temperature Stress	Prof. Sanjay Kapoor	Department of Plant Molecular Biology, University of Delhi South Campus, Benito Juarez Road, Dhaura Kuan, New Delhi, India	South Campus	New Delhi	Delhi			13.10.2016	13.10.2018	Rs 7,50,000/-	Rs. 3,75,000/-
27	Egypt	Fabrication of thin film solar cell based on nanostructured Cu <sub>2</sub> ZnSn(SXSe <sub>1-x</sub> ) <sub>4</sub> .	Dr P.S Patil	Thin film materials Laboratory, Department of Physics, Shivaji University, Kolhapur, Maharashtra, India		Kolhapur	Maharashtra			04.10.2016	04.10.2018	Rs.6,40,000/-	Rs. 3,20,000/-
28	Egypt	Decision Support System to estimate water requirements for the major crops	Dr Rakesh Sharda	Department of Soil and Water Engineering, Punjab Agricultural University, Ludhiana, India		Ludhiana	Punjab			13.10.2016	13.10.2018	Rs 6,30,000/-	Rs. 3,15,000/-
29	Egypt	Studying structure and chemistry within and at the interfaces of nano lamella in cold rolled Ti-alloys using Transmission Electron Microscopy to determine reason behind its superior strength	Somnath Bhattacharyya	Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras, Chennai, India		Madras	Chennai			21.11.2016	21.11.2018	Rs 6,30,000/-	Rs. 3,15,000/-
30	Egypt	Liposome Encapsulated Azadiradione for Triple Negative Breast Cancer Treatment	Dr. Ajai kumar B Kunnumakkara	Department of Biosciences and Bioengineering, Indian Institute of Technology, Guwahati, Assam, India		Guwahati	Assam			08.11.2016	08.11.2018	Rs 6,30,000/-	Rs. 3,15,000/-
31	Egypt	Identification and Analysis of micro RNA Involved in Regulating Heat Stress Responses in Tomato	Dr. Neeti Sanan-Mishra	International Center for Genetic Engineering and Biotechnology (ICGEB), New Delhi, India	JNU	New Delhi	Delhi			28.02.2016	28.02.2018	Rs 6,30,000/-	Rs. 3,15,000/-
32	Egypt	Borate based bioactive glass nanofibers for topical application for treatment of nonhealing diabetic wounds	Dr Jui Chakraborty	CSIR-Central Glass and ceramic Research Institute, Jadavpur, Kolkata, India		Jadavpur	Kolkata			12.01.2017	12.01.2019	Rs 6,30,000/-	Rs. 3,15,000/-
33	Egypt	Novel porous materials as solid electrolytes for energy devices	Dr. A. Manuel Stephen	CSIR-CECRI, Karaikudi, India	Sivaganga	Karaikudi	Tamilnadu			30.01.2017	30.01.2019	Rs.6,30,000/-	Rs. 3,15,000/-
34	Egypt	Production of new non-toxic photoluminescent nano-materials and their applications in energy and forensic fields	Dr. L. Robindro Singh	North-Eastern Hill University, Shilong, India		Meghalaya	Shilong			21.03.2017	21.03.2019	Rs.6,30,000/-	Rs. 3,15,000/-
35	Egypt	Fabrication and Characterization of Functional Polymeric Matrix by Click-Chemistry for Medical Applications and 3D Bioprinting	Prof. Sourabh Ghosh	Department of Textile Technology, IIT Delhi, Hauz Khas, India	New Delhi		Delhi			21.03.2017	21.03.2019	Rs.6,20,000/-	Rs. 3,10,000/-
36	German (DAAD)	"In-situ structural investigations on monazite-type	Dr. Pawan Kumar Kuriya	University Accelerator Centre, Aruna asaf Ali road,	Vasant Kunj	South Delhi	New Delhi			23-10-2017	(2 Years) 22-10-2019	5,20,000/-	2,60,000/-
37	German (DAAD)	"Comparative Transcriptomics of Crocus sativus corm in presence and absence of pathogenic fusarium oxysporum"	Prof. Jyoti Vakhlu	School of Bio Technology University of Jammu	Gujarbasti,	Jammu	J & K			20-07-2017	(2 Years) 19-07-2019	12,16,000/-	5,82,000/-
38	German (DAAD)	Sustainable molecular architecture through C-H bond functionalization	Dr. Bhaskar Sundararaju	Department of Chemistry, IIT Kanpur	Kanpur	Kanpur	UP			05-12-2017	(2 Years) 04-12-2019	12,45,000/-	6,22,500/-
39	German (DAAD)	'Simulation and optimization of complex railway junctions'	Narayan Rangaraj	IIT Bombay Powai	Powai	Bombay	Mumbai			09-10-2017	(2 Years) 08-10-2019	5,75,000/-	3,10,000/-

40	German (DAAD)	Design, fabrication and characterization of high-NA lenses with dielectric Huygens metasurfaces	Dr. Balamati Chaudhury	CSIR-National Aerospace Laboratories	Bangalore	Bangalore	Karnataka			08-08-2017	(2 Years) 07-08-2019	7,18,500/-	3,82,000/-
41	German (DAAD)	"Synthesis of heterocyclic compounds from 1,1-diaminoazines: theoretical and experimental studies"	Prof. Prasad V Bharatam	Department of Medical Chemistry, NIPER, S.A.S nagar	Mohali	Sahibzada Ajit Singh Nagar	Punjab			29-08-2017	(2 Years) 28-08-2019	8,81,200/-	4,40,600/-
42	German (DAAD)	Role of nano-structuring on the magnetostructural properties of magnetic thin films and multilayers for data storage application	Dr. Jyoti Ranjan Mohanty	Dept of Physics IIT Hyderabad Kandi	Kandi	Hyderabad	Telangana			19-07-2017	(2 Years) 18-07-2019	5,90,000/-	3,47,000/-
43	German (DAAD)	Early stage Coating growth study on different substrates — influence of intermetallic phases	Professor Subodh Kumar	Materials Engineering, Indian Institute of Science	Bangalore	Bangalore	Karnataka			03-07-2017	(2 Years) 02-07-2019	12,10,000/-	6,05,000/-
44	German (DAAD)	"Experimental and theoretical investigation of rate dependent bifurcation in the context of thermoacoustic instability"	Professor R I Sujith	Department of Aerospace Eng. IIT Madras, Chennai	Madras	Chennai	Tamil Nadu			03-08-2017	(2 Years) 02-03-2019	5,75,000/-	3,10,000/-
45	German (DAAD)	"Influence of particle size on the in vivo and in vitro toxicity of metals oxides causing toxicity in model zebrafish in normal human bladder cells and bladder tumor cells	Dr. V Rajaendran	Centre for Nano Science and Technology Kalvi Nagar	Devasandra Layout	Bengaluru	Tamil Nadu			28-08-2017	(2 Years) 27-08-2019	7,68,900/-	4,29,200/-
46	German (DAAD)	Gas metal arc additive manufacturing (GMAAM) – simulation and adaptive control	Amitava De,	Mechanical Engineering Department, IIT Bombay, Powai	Powai	Bombay	Mumbai			31-08-2017	(2 Years) 30-08-2019	9,30,500/-	4,57,500/-
47	German (DAAD)	Material development for non-toxic, affordable thermoelectric waste heat recovery	Dr. Titas Das Gupta	Department of Metallurgical Engineering and Materials Science, IIT Bombay	Powai	Bombay	Mumbai			02-06-2017	(2 Years) 01-06-2019	9,23,000/-	4,75,000/-
48	German (DAAD)	Circulating levels of miRNA and secretory protein profile in diabetic cardiomyopathy: a clinical study on Indo-German cohorts	Dr. V. Aravindhan	Deptment of Genetics, University of Madras	Taramani	Chennai	Tamil Nadu			26-07-2017	(2 Years) 25-07-2019	10,21,000/-	5,10,500/-
49	German (DAAD)	large-scale text analytics to identify temporal and medics-specific scopes of words	by Dr. Animesh Mukherjee	Department of CSE, IIT Kharagpur	Kharagpur	Kharagpur	Madhya Pradesh			27-10-2017	(2 Years) 26-10-2019	12,58,500/-	6,57,000/-
50	German (DAAD)	Delivery of siRNA for masking resistance to chemotherapy in non-small cell lung cancer	Prof.Ambikanandan Misra	The Maharaja Sayajirao University of Baraoda, Vadodara	Baraoda	Vadodara	Gujarat			27-10-2017	(2 Years) 26-10-2019	5,02,600/-	2,51,300/-
51	German (DAAD)	Leptons from heavy flavour hadron decays in proton-positron collisions at the LHC	Ankhi Roy	IIT Indore, Khandwa Road, Simrol Indore	Simrol	Indore	Madhya Pradesh			12-07-2017	(2 Years) 11-07-2019	7,14,000/-	3,57,000/-
52	German (DAAD)	Multi - scale modeling precipitation process in Al - Cu - Li alloys	M P Gururajan	Department of Metallurgical Engineering and Materials Sciences IIT Bombay Powai	Powai	Bombay	Mumbai			10-10-2017	(2 Years) 09-10-2019	9,21,500/-	4,60,500/-
53	German (DAAD)	Investigations on Structural and thermo-mechanical behavior of the Cu - based shape memory alloy bi-morphs prepared by laser assisted manufacturing	Dr. I. A. Palani	Indian Institute of Technology Indore	Simrol	Indore	Madhya Pradesh			04-08-2017	(2 Years), 03-08-2019	7,76,000/-	3,88,000/-
54	German (DAAD)	Dynamic Response analysis for the installation of offshore Hybrid Concrete Jacket based support structure for wind energy (DRACONJACK)	Dr. V. Sriram	Department of Ocean Engineering Indian Institute of Technology Madras Chennai	Madras	Chennai	Tamil Nadu			14-07-2017	(2 Years), 13-07-2019	23,56,000/-	11,78,000/-
55	German (DAAD)	Strong light-matter interactives in active metallic nanoantennas	Dr. Parinda Vasa	Department of Physics, IIT Bombay, Powai	Powai	Bombay,	Mumbai			03-08-2017	(2 Years), 02-08-2019	16,44,000/-	8,22,000/-
56	German (DAAD)	Formation of Room Temperature Ferrite Thin Films for the Applications of Spintronic Devices	Rajeesh Kumar	Department of Physics and Materials Science, Jaypee University of Information Technology Solan(H.P)	Solan	Solan	Himachal Pradesh			31-07-2017	(2 Years), 31-07-2019	11,72,000/-	5,86,000/-
57	German (DAAD)	Evolutionary change in the structure and composition of fossil shark, crocodile and mammal teeth in past 50 million years	Dr. Rajeev Patnaik	Department of Geology, Panjab University	Chandigarh	Chandigarh	Panjab			11-08-2017	(2 Years), 10-08-2019	6,01,000/-	3,00,500/-
58	German (DAAD)	Integration of mastitis resistant gene (lysozyme) into the beta-casein locus of buffalo/bovine genomes using CRISPR/Cas9	Dr. P.S Yadav	Animal Physiology and Reproduction Division Central Institute for Research On Buffaloes, Hisar	Hisar	Hisar	Haryana			21-06-2017	(2 Years), 20-06-2019	6,20,000/-	2,45,000/-
59	German (DAAD)	Investigation of production parameters of supercapacitor electrodes and their influence on electrical performance	Dr. S.K Tripathi	Department of Physics Mahatma Gandhi University, Motihari	Motihari	Motihari	Bihar			16-10-2017	(2 Years), 15-10-2019	13,16,000/-	6,58,000

60	German (DAAD)	Design of a sciento-text retrieval and contextual recommendations of high quality scholarly articles	Dr. Vivek Kumar Singh	Department of computer science, Banaras Hindu University	Varanasi	Varanasi	UP			10-07-2017	(2 Years), 09-07-2019	6,64,400/-	3,32,200/-
61	German (DAAD)	Nanostructured oxide based materials for thermoelectric applications	Dr.Mayandi jeyanthinath	Department of Material Sciences, Madurai Kamaraj University, Tamilnadu	Palkalai Nagar,	Madurai	Tamilnadu			20-06-2017	(2 Years), 19-06-2019	8,90,000/-	4,45,000/-
62	Germany (DFG)	Metal Nanoclusters in Nanoscience Applications	Prof. Sandeep Verma	Department of Chemistry, Indian Institute of Technology Kanpur	Kalyanpur	Kanpur	U.P			05-12-2017	(3 Years) 04-12-2020	39,35,300/-	11,99,300/-
63	Germany (DFG)	Electrospun Nanofibers with Embedded Yolk-Shell Particles for Catalytic Applications	Dr. Bhanu Nandan	Department of Textile Technology, Indian Institute of Technology Delhi,	IIT Campus	New Delhi	New Delhi			17-05-2017	(3 Years) 16-05-2020	37,73,080/-	12,40,550/-
64	Germany (DFG)	Chemo-enzymatic synthesis of multivalent dendritic architectures for the control of neurodegenerative disorders	Dr. Sunil K. Sharma	Department of Chemistry University of Delhi (DU), Delhi	North Campus	University Enclave	New Delhi			29-08-2017	(3 Years) 28-08-2020	38,60,980/-	11,78,500/-
65	Germany (DFG)	Stimuli-Responsive Microgels with Covalent and Dynamic Ionic Crosslinks: Chemical Design and Behavior in Aqueous Solutions	Dr. Nikhil K. Singha	Rubber Technology Centre Indian Institute of Technology Khragpur	Khragpur	Khragpur	West Bengal			03-08-2017	(3 Years) 02-08-2020	34,21,570/-	16,31,050/-
66	Germany (DFG)	Rational development of regioselective difunctionalizations of arenes using carboxylates as decoupled groups	Dr. Debasis Koley	Department of Chemical Sciences, Educations and Research (ISER) Kolkata	Mohanpur,	Kolkata	West Bengal			16-10-2017	(3 Years) 15-10-2020	30,49,000/-	13,25,000/-
67	Germany (DFG)	Magnetic and dielectric studies on the room temperature magnet SrRu2O6 and its doped variants	Dr. Sunil Nair	Department of Physics, Indian Institute of Science Education & Research, Pune	NCL Colony, Pashan	Pune	Maharashtra			17-05-2017	(3 Years) 16-05-2020	28,94,700/-	10,05,600/-
68	Germany (DFG)	Atmospheric heating in low-mass solar-like stars: A multi wavelength study of stellar atmosphere using Astrosat and Tigré	Dr. Lalitha Sairam	INSPIRE Faculty Indian Institute of Astrophysics Koramangala, Bengaluru	Koramangala,	Bengaluru	Karnataka			03-10-2017	(3 Years) 02-10-2020	9,54,900/-	5,59,950/-
69	Italy	Development of space-borne SAR tomography techniques for forests	Prof. Gulab Singh	IIT Bombay	Mumbai	Mumbai	Maharashtra			27-06-2017	27-06-2020	Rs. 10,80,000/-	Rs. 3,60,000/-
70	Italy	Innovative models for assessment of water quality in coastal aquifers	Dr. Elango Lakshmanan	Anna University	Chennai	Chennai	Tamil Nadu			13-06-2017	13-06-2020	Rs. 10,80,000/-	Rs. 3,60,000/-
71	Italy	Development of 3d bioprinted osteochondral tissue	Dr. Sourabh Ghosh	IIT Delhi	New Delhi	South Delhi	Delhi			15-06-17	15-06-2020	Rs. 10,80,000/-	Rs. 3,60,000/-
72	Italy	Precision physics at the CERN Large Hadron Collider (LHC)	Dr. Ravindran Vajravelu	The Institute of Mathematical Sciences, Chennai	Chennai	Chennai	Tamil Nadu			27-06-17	27-06-2020	Rs. 10,80,000/-	Rs. 3,60,000/-
73	Italy	Simulation studies and tests to develop radiation tolerant silicon detectors for high luminosity colliders	Prof. Ashutosh Bhardwaj	University of Delhi	Delhi	North Delhi	Delhi			25-07-17	25-07-2020	Rs. 10,80,000/-	Rs. 3,60,000/-
74	Italy	AstroSat: a new window on General Relativity	Prof. Dipankar Bhattacharya	Inter-University Centre of Astronomy and Astrophysics (IUCAA), Pune	Pune	Pune	Maharashtra			07-05-2017	07-05-2020	Rs. 10,80,000/-	Rs. 3,60,000/-
75	Italy	From Laboratory to conservation Site	Dr. Anuradha Chaturvedi	School of Planning and Architecture	New Delhi	Central Delhi	Delhi			30-06-17	30-06-2020	Rs. 10,80,000/-	Rs. 3,60,000/-
76	Italy	Development of catalysts for converting biomass derived synthesis gas to fuels via Fisher Tropsh synthesis	Dr. Rajaram Bal	Indian Institute of Petroleum, Dehradun	Dehradun	Dehradun	Uttarakhand			21-07-17	21-07-2020	Rs.12,30,000/-	Rs. 4,10,000/-
77	Italy	Photonics-based advanced environment monitoring system for an enhanced PREVENTION of landslide and structural failure risks-PREVENTION	Dr. Abhirup Das Barman	University of Calcutta	Kolkata	Kolkata	West Bengal			28-07-17	28-07-2020	Rs. 26,56,440/-	Rs. 8,85,480/-
78	Italy	Geophysical methods to monitoring soil bioremediation	Dr. Paras R Pujari	National Environmental Engineering Research Institute, Nagpur	Nagpur	Nagpur	Maharashtra			08-02-2017	08-02-2020	Rs. 26,63,520/-	Rs. 8,72,000/-
79	Italy	Topological Phase of Matter in 2D Superconducting materials	Prof. Pratap Raychaudhuri	TIFR, Mumbai	Mumbai	Mumbai	Maharashtra			20-06-2017	20-06-2020	Rs.10,80,000/-	Rs. 3,60,000/-
80	Italy	An integrated approach to the treatment of Duchenne Muscular Dystrophy and Spinal Muscular Atrophy	Dr. Ram Manohar Puthiyedath,	Amrita Vishwa Vidyapeetham University, Kollam	Kollam	Kollam	Kerala			01-03-2018	01-02-2018	Rs. 10,80,000/-	Rs. 3,60,000/-
81	Italy	Role of TAZ protein as a stemness factor in human umbilical cord derived mesenchymal stem cells and its potential role in wound healing in personalised medicinal system	Dr. Surajit Pathak,	Chettinad Health and Research Institute, Chennai	Chennai	Chennai	Tamil Nadu			13-11-17	11-12-2020	Rs. 10,80,000/-	Rs. 3,60,000/-
82	Italy	Networked Airborne Base Stations for Disaster Management	Prof. P. Muthu Chidambaranathan,	National Institute of Technology, Tiruchirappalli	Trichy	Tiruchirappalli	Tamilnadu			16-06-17	15-06-2020	Rs. 10,80,000/-	Rs. 3,60,000/-
83	Italy	Formal Specification for Secured Software System	Prof. Nabendu Chaki,	Calcutta University	Kolkata	Kolkata	West Bengal			28-06-17	27-06-2020	Rs. 10,80,000/-	Rs. 3,60,000/-
84	Italy	Charge and energy transfer in molecular multifunctional materials	Dr. Mahesh Hariharan,	ISER-Thiruvanthapuram	Thiruvanthapuram	Thiruvanthapuram	Kerala			16-11-17	15-11-2020	Rs. 10,20,000/-	Rs. 3,40,000/-

85	Italy	IoT Framework for Modeling, Monitoring and Damage Detection of Natural and Historical Heritage Structures	Prof. Balaji Hariharan	Amrita Vishwa Vidyapeetham, Amrita University, Kollam	Kollam	Kollam	Kerala			01-03-2018	01-02-2020	Rs. 10,80,000/-	Rs. 3,60,000/-
86	Italy	Ferrocene conjugated y-shaped chromophores as potential sensitizers in dye sensitized solar cells with innovative redox mediators	Dr. Palanisami Nallasamy	VIT University, Vellore	Vellore	Vellore	Karnataka			11-07-2017	11-06-2020	Rs. 16,30,000/-	Rs. 6,10,000/-
87	Italy	Sustainable development of electro membrane bioreactors (eMBRs) for wastewater reuse with production of alternative green energy	Dr. Malini Balakrishnan	TERI New Delhi	New Delhi	New Delhi	Delhi			18-01-18	17-01-2021	Rs. 33,53,280/-	Rs. 11,17,760/-
88	Italy	Genetic basis of early-onset systemic lupus erythematosus in India and Italy	Dr. Amit Rawat	Postgraduate Institute of Medical Education and Research, Chandigarh	Chandigarh	Chandigarh	Chandigarh			18-12-17	17-12-2020	Rs. 24,82,560/-	Rs. 8,13,000/-
89	Italy	Development of nature inspired bivalent antitubulins as anticancer agents	Dr. Arvind Singh Negi	Central Institute of Medicinal and Aromatic Plants (CIMAP), Lucknow	Lucknow	Lucknow	Uttar Pradesh			02-09-2018	02-08-2021	Rs. 45,90,720/-	Rs. 15,30,240/-
90	Italy	Access to the beamlines of the Elettra Synchrotron Light Laboratory by the Indian Institutions	D.D. Sarma,	Indian Institute of Science	Bangalore	Bangalore	Karnataka			02-05-2018	02-04-2121	1,66,83,000/-	Rs. 50,00,000/-
91	Italy	Study and Development of Innovative Systems to Monitor and Reduce Concentrations of oils and Heavy Metals in Industrial Waste Water	Mr. Varun Sridharan	Greenvironment Innovation and Marketing India (P) Ltd., Chennai		Chennai	Tamil Nadu	Setting up innovative processes for removal of oil, grease and heavy metals in industrial wastewater with efficient O & M through Real Time Monitoring of the system.	Smart Cities	N.A.	N.A.	60,55,000	0
92	Italy	Bio-Cleaning for Cultural Heritage	Dr. Maninder Singh Gill Mr. Sreekumar Menon	PRIMAACS Project Consultants LLP, Noida Heritage Conservation Management Services, Noida		Noida	Uttar Pradesh	Investigation on surface based bio-deterioration on heritage buildings and outdoor artefacts in Indian climatic conditions.	Swachh Bharat	N.A.	N.A.	15,00,000	0
93	Japan	Development of Ultrafast Photo-functional Material by Femtosecond Structural Dynamics	Prof. Pratik Sen	Department of Chemistry, Indian Institute of Technology		Kanpur	Uttar Pradesh	Development of new photofunctional material suitable for application in optoelectronic devices and solar energy conversion.		07.09.2017	07.09.2019	4,12,000/-	1,64,800/-

94	Japan	Temporal Control over Supramolecular Polymerization	Subi J George, Associate Professor,	Supramolecular Chemistry Lab, New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research,		Bangalore	Karnataka	Design of multi-component, hetero-structure supramolecular material based on the supramolecular strategy.	Design of novel bio-inspired fuel-driven living supramolecular polymerization strategies and the development of multicomponent supramolecular structures of conjugated molecules. Also, the other main output of the proposed work will be high quality publication.		01.12.2017	31.12.2019	4,38,000/-	2,00,000/-
95	Japan	A Study on Crystal Growth and Optical Properties of Novel Macrocylic Supramolecular Assemblies	S Kalainathan, Deputy Director (Centre for Crystal Growth),	School of Advanced Science, VIT University		Vellore	Tamil Nadu	Investigation on intermediate band solar cells (IBSCs) using thin films of emerging material and studying high solar energy conversion efficiency.	Through the project, the price of the solar cell will be lowered by using non-toxic and naturally abundant material and low cost manufacturing technologies.		20.09.2017	19.8.2019	5,24,000/-	2,09,600/-
96	Japan	Dynamics of Nonlinear Optical Microactivities for On-chip Quantum Photonic Applications	Shailendra Kumar Varshney, Associate Professor,	Dept of Electronics and Electrical Communication Engineering, Indian Institute of Technology,		Kharagpur	West Bengal	Designing and development of on-chip entangled photon pair source with enhanced generation rate.	Through the project, mathematical tool will be developed that will be helpful in understanding of stabilized frequency comb for quantum photonic application and quantum mechanical formulation of interaction between cavity and quantum emitter for realizing on-chip single photon source.		28.09.2017	27.08.2019	5,00,800/-	2,25,000/-
97	Japan	Fabrication of carbonate apatite coated titanium implant	G. Sakthinathan, Associate Professor	Department of Production Technology Madras Institute of Technology, Anna University,		Chennai	Tamil Nadu	Development of new kind of material for bone replacement.	Enhancement of knowledge in the field of biomaterials and recent development in the field. Development of implant with improved characteristics and joint research publications will be done.		21.11.2017	20.11.2019	4,46,000/-	2,00,000/-
98	Japan	Development of Micro-Nano Zinc Oxide Based Functional Devices	Nilesh J. Vasa, Professor	Dept of Engineering Design Indian Institute of Technology		Madras	Tamil Nadu	Development of technology for ZnO nano-/micro structure based light emitting diode.	Development of environment friendly ZnO based semiconductor devices. Development of technology for ZnO nano-crystal patterning, studying formation of ZnO nano-crystals by wire explosion technique.		27.09.2017	26.09.2019	5,53,200/-	2,22,000/-
99	Japan	Dynamic behaviour and Low Velocity Transverse Impact Response of Fluid-Conveying Functionally Graded Shells under Mechanical and Thermal Loads	Amit Karmakar, Associate Professor	Dept of Mechanical Engineering, Jadavpur University		Kolkata	West Bengal	Studies on vibration characteristics of fluid-conveying functionally graded (FG) shells under mechanical and thermal load in the context of comparative performances between cylindrical and conical shells.	The research outcome will lead to joint publications. The developed computer codes will be sufficiently generalized. The extended version of the computer codes will be useful for predicting impact damage. Improved design performance of functionally graded material (FGM).		27.09.2017	26.09.2019	5,06,000/-	2,02,400/-

100	Japan	Production and Measurement of THz Radiation at LUCX and DLS for Promoting Researches in Materials Science, Nanotechnologies, Molecular Physics	Subhendu Ghosh, Scientist G,	Superconducting Linear Accelerator and Free Electron laser, Inter University Accelerator Center,		New Delhi	Delhi	Development of a compact electron accelerator at InterUniversity Accelerator Center(IUAC), New Delhi for the production of high quality electron beam and THz radiation that will be used to perform fundamental/applied research in the fields of Material Science, nanotechnologies and Molecular Physics.	Development of a fiber optics laser system to be used for producing the high quality of electron beam from the electron accelerator. Techniques for the production, measurement and characterization of the THz radiation will be developed. Joint publication in the field of high power fiber laser and its splitting technology, Material Science and Molecular Physics.		10.10.2017	09.10.2019	4,96,000/-	2,25,000/-
101	Japan	In-process Monitoring of Stamping Process of a Thin Plate	Professor Puneet Tandon	Dept of Mechanical Engineering, PDDM Indian Institute of Information Technology, Design & Manufacturing, Jabalpur		Jabalpur	Madhya Pradesh	Develop stamping die design methodology that will enable manufacturers to produce small quantity of different kinds of products efficiently by utilizing advanced measurement and automatic control technologies.	Die-plate contact analysis using non-linear FEM analysis. Development of a real time monitoring system to control the hydraulic systems and establishing relationship between input and response parameters so as to optimize the parameters like velocity, gap, pressure etc.		22.11.2017	21.11.2019	8,76,000/-	4,00,000/-
102	Japan	Development of Graphene-Metal Semiconductor Nanocomposite based Smart Torque and Shear Sensors and their Applications	Prof. K. Rajanna	Dept of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore,		Bangalore	Karnataka	Design and development of Smart Torque Sensor and smart shear sensor using graphene based nanocomposites.	Detailed characterization of the synthesized nanostructures material and optimization of the necessary process parameters, design and fabrication of the suitable experimental set-up for studying the performance of the nanocomposite sensors, complete		28.09.2017	27.09.2019	8,78,000/-	4,00,000/-
103	Japan	In Search of A Missing Piece: Understanding the Kinetochores Architecture of the Human Fungal Pathogen that Lost Most Evolutionary Conserved Kinetochores Proteins	Kaustuv Sanyal, Associate Professor,	Molecular Biology and Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research,		Bangalore	Karnataka	Immunoprecipitation of epitope-tagged kinetochores proteins from various sub-complexes by recapitulating most possible interactions at the kinetochores, with an aim to help localize the Ndc80 complex at the centromere.	Mass spectrometry analysis of obtained data towards developing a kinetochores interaction map and to identify previously uncharacterized kinetochores proteins and interactions. The proposed kinetochores interactome will be validated by co-immunoprecipitation and genetic analyses.		28.9.2017	27.9.2019	5,44,000/-	2,17,600/-
104	Japan	Comprehensive Understanding of Cellular Response to Amyloid Toxicity at Molecular Level	Deepak Kumar Sharma, Senior Scientist,	Dept of Protein Science and Engineering, CSIR-Institute of Microbial Technology, Chandigarh,		Chandigarh	Punjab	The important novel findings expected from the proposed research would be to provide insight into the effect of alpha synuclein inclusions on other cellular factors. The role of various cellular factors on alpha synuclein toxicity.	The project will study the genetic manipulation of S. cerevisiae for construction of yeast model of alpha synuclein toxicity. The study will lead to the identification of cellular proteins adversely affected by accumulation of the cystolic alpha synuclein inclusions and identification of cellular factors on alpha synuclein mediated cytotoxicity.		05.12.2017	04.12.2019	5,42,000/-	2,00,000/-

105	Japan	Development of In-vivo Evaluation of Multiscale Fibrous Scaffolds Having Controlled Molecular Mobility for Directed Bone Regeneration	R Jayakumar, Professor,	Amrita Centre for Nanosciences and Molecular Medicine, Amrita Institute of Medical Sciences, Amrita VishwaVidyaapeetham University		Kochi	Kerala	Developing innovative synthetic strategies for development of cell laden 3D multiscale polyrotaxanes electrospun scaffold with controlled molecular mobility directed for bone regeneration.	Cell laden 3D multiscale polyrotaxanes electrospun scaffold will serve as a novel biomaterial for growth and differentiation of stem cells into osteogenic lineages. The 3-D molecular mobility electrospun scaffold will be beneficial in regenerative medicine.		27.11.2017	26.11.2019	4,89,500/-	1,85,600/-
106	Japan	Estimation of transport properties of blood modeled as a fluid-particulate mixture from experimental and theoretical approaches	Indranil Saha Dalal, Assistant Professor	Department of Chemical Engineering, IIT		Kanpur	Uttar Pradesh	Modeling of blood and the isolated plasma as a complex fluid-behaviour in bulk and effects due to surface modifications.	Enhanced understanding and insights to completely model blood as a complex fluid. Publication of article on the characterization of blood, on rheology and modeling of blood as a complex fluid.		30.11.2017	30.11.2019	4,06,000/-	1,62,400/-
107	Japan	Comprehensive omics studies on a versatile sphingomonad strain to establish theoretical basis for in situ bioremediation of recalcitrant environmental pollutants	Prof. Dayananda Siddavattam,	Dept of Animal Biology, University of Hyderabad		Hyderabad	Andhra Pradesh	The joint project generates results explaining the catabolic networks and their regulation in <i>S. wildii</i> . Novel catabolic pathway of gamma-HCH and gens and enzymes involved in t will be revealed.	The study will help to identify master regulator governing carbon metabolic regulation in the novel strain. The behaviour of <i>S. wildii</i> in soil environments will be revealed, optimized condition for inoculation into soil environments will be proposed. The generated knowledge will form the basis to conduct future research to improve the bioremediation technologies.		28.09.2017	27.09.2019	5,79,600/-	2,32,000/-
108	Japan	Investigating catalytic mechanism and regulation in Era and EngA and their role in ribosome biogenesis.	Balaji Prakash, Senior Principal Scientist & Professor (AcSIR),	Department of Molecular Nutrition, CSIR-Central Food Technological Institute,		Mysore	Karnataka	Knowledge on catalytic mechanisms and inter-domain regulation in EngA and Era-two GTPases involved in ribosome assembly.	Enhanced knowledge about the relevance of EngA and Era in 50S and 30S assembly respectively. Network biology of accessory factors like Era and Eng A involved in 30S/50S assembly.		09.11.2017	08.11.2019	5,80,000/-	2,50,000/-
109	Japan	Genomic and epigenomic characterization of 9p21 in Intracranial aneurysm patients from two distinct ethnic population of the world.	Dr. Moinak Banerjee, Scientist F	Neurobiology and Human Genetics, Rajiv Gandhi Center for Biotechnology, Division of Neurobiology and Human Genetics Rajiv Gandhi Centre for Biotechnology		Thiruvananthapuram	Kerala	Resequencing the 9p21 region in Aneurysm patients from Japan and India.	The study will help to identify allelic preference for association in Aneurysm, and other risk factors such as diabetes, identifying causes of allelic imbalances in regulation of genes that influence aneurysm, identifying the epigenetic regulation of crucial genes in the 9p21 region that can modulate development of aneurysm.		13.10.2017	12.10.2019	5,66,000/-	2,65,000/-

110	Japan	"The elucidation of the mechanisms of programmed cell death induced by fungal toxin and hydrogen peroxide in tobacco BY-2 cells and <i>Physcomitrella</i> protonemal cells"	Maumita Bandyopadhyay Assistant Professor	Department of Botany, University of Calcutta		Kolkata	West Bengal	Studying the effects of fungal toxin and hydrogen peroxide in induction of programmed cell death in tobacco BY-2 cells and in <i>Physcomitrella</i> protonemal cells.	Elucidating the activation of autophagy during programmed cell death during fungal toxin exposure in BY-2 cells, tracing the progression of autophagy in wild type and transgenic GFP tagged lines of BY-2 cell lines using biochemical assays and correlation of ROS homeostasis with it. Confirmation of hypothesis in <i>Arabidopsis</i> cell lines and <i>Physcomitrella</i> protonemal cells.		16.10.2017	15.10.2019	5,70,000/-	2,30,000/-
111	Japan	Characterizing role of large frugivores in seed dispersal networks: macaques and hornbills in Asia	Prof. Sindhu Radhakrishna	Prof. Sindhu Radhakrishna, National Institute of Advanced Studies, Indian Institute of science Campus,		Bengaluru	Karnataka	Enhanced knowledge about the plant movement responses in Asian forests to climate change.	Studies will examine the plant species responses to climate change, using movement velocities generated by hornbills and macaques. The results from the study will help identify plant species that have lost dispersal services in modified habitats for immediate attention in restoration programs and appropriate landuse management to maintain critical ecosystem services provided by hornbills and macaques.		17.11.2017	16.11.2019	5,12,000/-	2,25,000/-
112	Japan	Adaptive Snowpack parameters Estimation and Mapping by Using SAR Polarimetry and Interferometry	Prof. Dharmendra Singh,	Dept of Electronics and Communication engineering, Indian Institute of Technology,		Roorkee	Uttarakhand	Jointly developed new methodologies will be useful for future researchers in the field of cryosphere.	Software development that will be freely available for research community. Development of new adaptive POLSAR data processing method for complete use of phase and polarization information for understanding snow characteristics.		27.09.2017	26.09.2017	6,10,000.-	2,75,000/-
113	Japan	Investigation of Interstellar Polycyclic Aromatic Hydrocarbons (PAHs), Pure and Substituted: A Combined Approach	Amit Pathak, Assistant Professor,	Dept of Physics, Tezpur University,			Assam	Based on the knowledge obtained through the project on astronomical observations and data analysis and follow-up theoretical spectroscopic studies, interpretation of observational data of unknown sources may be carried out.	Knowledge base of important spectroscopic properties of PAHs will be created. Infrared properties of substituted -PAHs will be derived on observational, theoretical studies and laboratory experiments. Joint publications will be coming out of the collaborative programme.		24.10.2017	23.10.2017	10,60,000/-	5,00,000/-
114	Japan	Design Methodology for Programmable Microfluidic Devices by Integrating Architectural and Logic Synthesis Techniques	Sudip Roy, Assistant Professor,	Dept of Computer Science and Engineering, IIT		Roorkee	Uttarakhand	Algorithms for architectural and logic synthesis for PMD biochips (programmable microfluidic devices).	Detailed report on technology developed for PMD biochips, joint publications in international journals and the PMD biochips will have commercial value towards the microfluidic and EDA industries.		07.09.2017	06.09.2019	7,58,000/-	3,03,200/-

115	Japan	Development of a pathological healthcare system for early detection of neurological gait abnormalities	Anup Nandy, Assistant Professor,	Dept of Computer Science and Engineering, National Institute of Technology,		Rourkela	Odisha	The project will offer an affordable and portable measurement environment with personalized 3D model of the human body for gait analysis as well as set of quantifiers of gait stability and feature analysis for detect clinical applications.	The outcome of the joint research will serve the urgent need of many neurological disordered patients. It will enrich scientific and technological domain by contributing demonstrative work in the research field. The project may attract commercial institutions to set up labs that can analyse the collected data and in turn help in the identification of the disorders that otherwise go undiagnosed.		28.09.2017	27.09.2019	6,28,000/-	3,00,000/-
116	Japan	Applications of Layered materials: Advances and Perspectives	Swapan K Pati	TSU, JNCASR,		Bangalore	Karnataka	Enhancement in knowledge of young graduate students, post-graduate fellows and faculty members to the advanced topics in condensed matter Physics and Material Science.	The students, scientists and faculty members will gain knowledge on two and quasi two dimensional material, topological insulators, heterogenous catalysis, water splitting and solar cells through the discussions and talks.		20.09.2017	7-9, 2017(duration of	6,00,000/-	5,50,000/-
117	Japan	New Insights into Multifunctional Catalysis for Biomass Transformations	Chandrasheshar V Rode, Chief Scientist,	CSIR, NCL,		Pune	Maharashtra	Enhancement in knowledge about the use of biomass as a sustainable resource and its conversion to value added products.	The conference is to set a platform for joint collaborations between India and Japan for biomass transformations and an important step in developing biorefinery based on non-fossil derived feed stock.		09.11.2017	18, 2018(duration of	6,72,5000/-	5,85,000/-
118	Japan	Future Perspectives of Bio-Resource Utilization in North-East India	Ramagopal V S Uppaluri, Professor,	Indian Institute of Technology		Guwahati	Assam	The workshop will help in identifying the North-East specific thrust, thematic and translational R & D themes in bioresource based science and technology, food science and renewable and bio-based energy science and technology.	The R&D efforts on the themes of bioresource based science and technology will lead to a holistic and inclusive growth of academia, industry and society to pave the way for rapid internationalization of sustainable agro-management policies and systems.		08.01.2018	4, 2018(Duration of	9,33,000/-	8,00,000/-
119	Japan	International Meeting on Non-Mammalian Models in Bio-medical Research: Current Status and Future Perspectives	Anirban Chakraborty, Associate Professor,	NU Centre for Science Education and Research (NUCSER),		Mangalore	Karnataka	To bring the most distinguished biomedical scientists working with non-mammalian systems in the country for sharing research findings.	Enhancement in knowledge about the recent trends, innovations and concerns as well as practical challenges encountered and solutions adopted while using non-mammalian models in biomedical research. Opportunities will be created for scientific collaboration between Indian researchers with potential research partners in Japan in the field of health and science research.		28.09.2017	5-6, 2017(date of wo	5,30,000/-	4,50,000/-

120	Japan	Knowledge Sharing Workshop on Adopting Water-Energy-Food Nexus Approach	Sudhindra Nath Panda, Director	National Institute of Technical Teachers Training and Research		Chennai	Tamil Nadu	To provide scientific evidence and quantification of benefits for the management of water, energy and food resources including the identification of required data, information and indicators to develop integrated nexus systems in India's drought prone areas.	Building of human capacity in improved resilience towards the drought relief programs and strengthening effective water and commodities supply system. To stimulate the thinking about local level agriculture and water resources management, WEF nexus and environmental issues and problems on terrestrial-coastal interactions.		19.12.2017	October 1-7.2017	6,52,500/-	6,00,000/-
121	Korea	Strong and wear resistant SiC nano composites for efficient green transport engine systems	Dr. B. Venkata Manoj Kumar	IIT Roorkee	Roorkee	Roorkee	Uttarakhand				15-06-2017	15-06-2020	Rs. 24,15,060/-	Rs. 7,90,500/-
122	Korea	Development of Single Multiple C-H Bond Activation by applying photocatalytic Technology: A Greener Approach enroute for Drug cores	Dr. Debarata Maiti	IIT Bombay	Mumbai	Mumbai	Maharashtra				22-06-2017	22-06-2020	Rs. 53,43,480/-	Rs. 17,64,000/-
123	Korea	biorefinery platform with integrated bioprocess in a self-sustained closed loop for multi-biobased product output	Dr. S. Venkata Mohan	IICT Hyderabad	Hyderabad	Hyderabad	Telangana				21-08-17	21-08-2020	Rs. 34,12,980/-	Rs. 11,20,500/-
124	Korea	Development of non-noble metal based nano-sized catalyst supported on structure controlled mesoporous materials for water gas shift reaction	Dr. C.V. Rode	NCL, Pune	Pune	Pune	Maharashtra				13-06-2017	13-06-2020	Rs. 31,50,520/-	Rs. 10,50,000/-
125	Korea	On improving the Security of Biometric images	Prof. Subhasis Chaudhari	IIT Bombay	Mumbai	Mumbai	Maharashtra				20-06-2017	20-06-2020	Rs. 22,27,980/-	Rs. 7,25,500/-
126	Korea	Study for the development and characterization of immunomodulating functional mango butter based chocolate fortified with curcuminoids and its potential uses	Dr. Kunal Pal	National Institute of Technology Rourkela	Rourkela	Sundergarh	Odisha				15-06-2017	Rs. 15-06-2020	Rs. 33,55,560/-	Rs. 11,04,000/-
127	Korea	Highly accurate digital holographic microscope cell classification by noise reduction and deep learning	Dr. Arun Anand,	The MS University of Baroda, Vadodara	Vadodara	Vadodara	Gujarat				02-08-2018	02-07-2020	Rs. 26,00,520/-	Rs. 8,51,000/-
128	Korea	QoS provision for Multigaigabit-supporting 5G wireless mobile networks	Dr. Jun Bae Seo alongwith Prof. Swades De,	Indian Institute of Technology Delhi	New Delhi	South Delhi	Delhi				02-05-2018	02-04-2021	Rs. 15,16,500/-	Rs. 505,500/-
129	KOREA	Design and Development of Advanced Power Electronics and Related Technologies for Integration of Solar Power Plants with Power Utility Grids	Mr. Ashutosh Goel	Allied Engineering Works Pvt. Ltd., New Delhi		New Delhi	Delhi	The project will develop a prototype and field deployments of grid integration technology at Low Tension Voltage level for Solar Photo Voltaic project of upto 50 KW sizes, which will help in flattening the load profile and reducing the electricity tariff for stakeholders in the long run.	The project aims to provide a cost effective technology for integration of Solar PV and other renewable power generation on the electricity grid. Major attributes for this project shall be: (a) Development of smart energy management (SEM) module for solar invertors to optimize solar generation, storage and usage. (b) Development of bi-directional meters having remote management facility for integration of Solar PV and other renewable generation. (c) Development of User Interface and management software (IHMS) for SEM modules &	Smart Cities	19-12-2017	18-12-2019	150,00,000	0
130	Netherlands	Optimised energy harvest and storage using discrete electrolytes	Prof. Balasubramanian Sundaram	Jawaharlal Nehru Centre for Advanced Scientific Research		Bangalore	Karnataka				12.06.2017	11.06.2021	51,80,000/-	12,63,600/-
131	Netherlands	Design and Synthesis of Novel Catalysts for Energy Applications via Nanoparticle Self-Assembly	Prof. Sudeep Punnathanam	Indian Institute of Science, Bangalore		Bangalore	Karnataka				27.07.2017	26.07.2021	29,91,000/-	12,17,000/-
132	Netherlands	Dispersed multiphase flows in sustainable energy conversion processes	Prof. Meheboob Alam	Indian Institute of Science, Bangalore		Bangalore	Karnataka				21.07.2017	22.07.2021	1,05,92,640/-	31,98,160/-

133	Netherlands	Design of novel nanophotonic and plasmonic structures for improved solar cell using reverse-engineering	Prof. Srikanth Sastry	Jawaharlal Nehru Centre for Advanced Scientific Research		Bangalore	Karnataka			12.07.2017	11.07.2021	58,90,400/-	15,47,100/-
134	Poland	Observational signature of super massive black Holes: TeV blazars in multi- wavelength view	Dr. Alok Gupta	ARIES		Nanital	Uttarakhand			11.06.2017	10.06.2019	13,74,000/-	4,58,000/-
135	Poland	Investigation on the Structure-Property relations in Novel Europium based Intermetallic compounds	Dr. Sebastian C. Peter	JNCASR		Bangalore	Karnataka			14.06.2017	13.06.2019	13,58,000/-	6,79,000/-
136	Poland	Design, synthesis and biological evaluations of B-serretare inhibitors as anti - Alzheimer's agents	Dr. Ruchi Malik	Central University of Rajasthan		Ajmer	Rajasthan			07.06.2017	06.06.2019	19,84,000	9,92,000/-
137	Poland	Pharmacological mimicking of cold via cold thermo- receptors (Transient Receptor Potential Ankyrin (A) 1 and Metastatin (M) 8) and energy regulation: novel implications in obesity and type-2 diabetes	Dr. Mahendra Bishnoi	National Agri-Food Biotechnology Institute		Mohali	Punjab			22.08.2017	21.08.2019	55,34,000	23,67,220/-
138	Poland	Dynamics of Liquid electrolytes and ionogels by means of NMR relaxometry	Dr. RK Singh	Banaras Hindu University		Varanasi	Uttar Pradesh			10.06.2017	09.06.2019	19,98,000/-	9,99,000/-
139	Poland	Development of sensors for compounds important for clinical analysis and food safety	Dr. K. Girish Kumar	Cochin University Of Science and Technology		Kochi	Kerala			21.07.2017	20.07.2017	12,36,000/-	6,18,000/-
140	Poland	Dissecting the association of miRNAs with mitochondria state and its involvement in mitochondria-mediated inflammation in brain ischemia	Dr Rajesh Singh	MS University of Baroda		Vadodara	Gujarat			07.07.2017	06.07.2019	33,24,000/-	11,74,000/-
141	Poland	New Semiconductors Based solution -Processed Small molecule for Optoelectronic Devices	Dr Surya Prakash Singh	CSIR - Insititute of Chemical Technology		Hyderabad	Andhra Pradesh			11.01.2018	10.01.2020	15,46,000/-	7,73,000/-
142	Poland	Development of novel thiazolidinediones (TZDs) with anti - leukmic potential	Dr. C.S.Ramaa	Bharti Vidyapeeth		Mumbai	Maharashtra			27.07.2017	26.07.2019	43,96,000/-	21,98,000/-
143	Poland	Elucidation of Synergistic Solvation in Alcohol-Chlorinatedmethane Binary Solvent Mixture by Optical Kerr Effect Spectroscopy	Dr. Pratik Sen	IIT Kanpur		Kanpur	Uttar Pradesh			10.06.2017	09.06.2019	10,93,000/-	5,46,500/-
144	Poland	Design and development of a new innovative parallel micro channel heat sink with mitigated flow maldistribution	Dr. Ritunesh Kumar	IIT Indore		Indore	Madhya Pradesh			07.06.2017	06.06.2019	36,12,000/-	18,06,000/-
145	Poland	Development of efficient and cost effective catalysts for C-H bond activation through simultaneous production of CO free hydrogen and carbon nanotubes from renewable H <sub>2</sub> : A value addition process	Dr. A Venugopal	IIT		Hyderabad	Andhra Pradesh			29.05.2017	28.05.2019	22,16,000/-	11,08,000/-
146	Poland	Strategies for the Heterocycle Synthesis: Art of Contriving Molecules via C-H Bond Activation	Dr. Debabrata Maity	IIT Bombay		Bombay	Maharashtra			24.05.2017	23.05.2019	15,42,000/-	7,71,000/-
147	Poland	Development of materials for the large enhancement in the thermoelectric properties using efficient computational approach	Dr. PK Jha	MS University		Vadodara	Gujarat			02.06.2017	01.06.2019	19,21,000/-	9,50,600/-
148	Poland	An Efficient Software Defined Network (SDN) - based Framework for Big Data Processing in Cloud Data Center	Dr. Neeraj Kumar	Thapar University		Patiala	Punjab			13.06.2017	12.06.2019	15,12,000/-	7,56,000/-
149	Poland	Novel potential antifungal drugs active against multidrug-resistant yeasts from the Candida genus	Dr. Rajendra Prasad	Amity University		Gurgaon	Haryana			12.06.2017	11.06.2019	26,31,000/-	8,77,000/-
150	Poland	Genetic biomarkers for breast cancer subtypes: the role of membrane receptors in modeling of heterogeneous populations of tumor cells	Dr. Indrajit Saha	National Institute of Technical Teachers' Training & Research (NITTTR)		Kolkata	West Bengal			14.06.2017	13.06.2019	8,92,800/-	4,46,800/-
151	Portugal	Solubility of gases in ionic liquid or binary mixture of ionic liquid + ionic liquid	Ramesh Gardas	IIT Madras	Chennai	Chennai	Tamilnadu	Investigations would be useful for developing hazard models considering earthquakes scenarios		23.08.2017	3 yr	7,74,500	3,12,000
152	Portugal	Developing magnetic nanoparticle immobilized enzyme catalysts for biofuel applications	Rajeev K Sukumaran	CSIR - National Institute for Interdisciplinary Science and Technology	Thiruvananthapuram	Kerala	Kerala	Research and development of new solar photovoltaic materials and devices	He is under circulation for Section Order		3 yr	Expected amount-13,05,000	

153	Portugal	Alternative oxidase - a tool to increase bio-mass productivity under temperature and flooding stress	Jagadis Gupta Kapuganti	National Inst. of Plant Genome Research	New Delhi	New Delhi	New Delhi	The algorithm and code for attenuation comography using strong motion and broadband data II. Three-dimensional attenuation tomography maps of the central seismic gap and central Mexico.			24.10.2017	3 yr	11,13,000	3,71,000
154	Portugal	Development of rare-earth doped nanocrystalline quantum cutting luminescent materials for solar energy harvesting	VEMULA VENKATRAMU	Yogi Vemana University	Kadapa	Kadapa	Andhra Pradesh	Addressing challenge of developing nano cristiline quantum cutting materials around 1000 nm for enhancing the efficiency of solar cells			08.08.2017	3 yr	12,68,400	4,22,800
155	Portugal	Experimental and numerical analysis of contact with friction conditions in forming processes	Padmanabhan Raghupathy	VIT University, Chennai	Chennai	Chennai	Tamilnadu	Proof of concepts device that allows us to deveolep new hibrid metallic manoparticle-ionic liquid in vide application such as photocatalist, censor application, environmental and biological anylysis		Waiting for darpas portal registration		3 yr	Expected amount 6,75,000	
156	Portugal	EMPOWER SSE: A Linked Open Data Frame-work for the Empowerment of Social and Solidarity Economy Agents	Animesh Dutta	National Institute of Technology Durgapur	Durgapur	Paschim Bardhaman	West Bengal	Establishment of strategy to the use of natural products to the management of nicotoin contamination in peanut maize and wheat seeds			08.01.2018	3 yr	10,34,500	3,61,500
157	Portugal	Design and development of composite particles for rapid and sustainable water treatment	Sangeeta Tiwari	Amity University	Noida	Noida	Uttar Pradesh	Assessment, diagnosis and automation of absorption heat transformer composed by two duplex comonents:Generator-condenser, and evaporator absorber.			11.12.2017	3 yr	11,25,000	3,75,000
158	Portugal	Porous ceramics from industrial wastes for insulating applications	Vidya S. Batra	The Energy and Resources Institute	New Delhi	New Delhi	New Delhi	Containing outbreaks of early mortality syndrom in shrimp aqua culture			31.08.2017	3 yr	6,30,000	2,10,000
159	Portugal	Development of a low field MRI scanner for stroke imaging	Sairam Geethanath Medical Imaging Research Center	Medical Imaging Research Centre. Dayananda Sagar Institutions	Medical Imaging Research Centre. Dayananda Sagar Institutions	Bangalore	Karnataka	Deveopment of functional gene-based markers for improvement of varieties of common bean by transferring resistant gene through marker assistaed back cross breeding		file is under circulation for Section Order		3 yr	Expected amount 11,18,000	
160	Portugal	Centrosome Biogenesis and Deregulation	Satyajit "Jitu" Mayor	The National Centre for Biological Sciences (NCBS)	Bengaluru	Bengaluru	Karnataka	Development of novel rice variety more efficient for use of phosphorous to increase productivity and decrease pollution		letter not received		3 yr		
161	Portugal	Development of ultra-broadband (1100-2200 nm) light sources based on modified nano-engineered silica glass optical fibers doped with bismuth and multiple rare-earths toward OCT applications	Mukul Chandra Paul	CSIR-Central Glass & Ceramic Research Institute	Kolkata	Kolkata	West Bengal	Designing efficient power conditioning unit for photovoltaic system based on solid state transformation			14.09.2017	3 yr	13,65,000	4,55,000
162	Portugal	ECHO: error---correcting codes in high---performance communication systems through joint exploration of inference algorithms and parallel architectures	Madhura Purnaprajna	Amrita Vishwa Vidyapeetham University	Bengaluru	Bengaluru	Karnataka	Generate possibilites to develop tehnologies for production of value added chemicals specially bulk chemicals such as ethinol from biomass			19.12.2017	3 yr	10,42,500	3,47,500
163	Portugal	Performance of combined wave and wind energy multi-use platform	Debabrata Karmakar	National Institute of Technology Suratkal	Suratkal	Suratkal	Karnataka	Novel technology for the cmbined offshore wind and wave energy devises to capture more power and analysing the dynamic response and loads of the floating wind turbine for the efficiency of the power generation of various floater concepts			29-08-2017	3 yr	13,00,500	4,33,500
164	Portugal	Development of advanced PVD coatings for machining nickel-based superalloys	Soumya Gangopadhyay	National Institute of Technology Rourkela	Rourkela	National Institute of Technology Rourkela	Odisha	Wound dressing material for treatment of wounds and skin burns			18.01.2018	3 yr	12,45,000	4,15,000
165	Portugal	Network Science for Urban Engineering	Ronita Bardhan	Indian Institute of Technology Bombay	Mumbai	Mumbai	Maharashtra	Techniques of analysing massive continuous and evolving high speed streaming networks using socio-metric, event detection method, influence analysis methods etc. in the domain of planning urban transport infrastructure by exploring the mobility patters of inividuals			21.11.2017	3 yr	6,63,000	2,21,000
166	Russia	Development of friction Stir welding technique for joining dissimilar light alloys	Dr. Satish Vasu Kailas	Indian Institute of Science Bangalore		Bangalore	Karnataka				24.10.2017	23.10.2020	88,25,056	48,55,712

167	Russia	Technologies and Toolset for Reliable Control of Production Areas of Internet Of Things	Dr. Shyamasundar Rudrapatna Kallikote	Indian Institute of Technology Bombay		Mumbai	Maharashtra			03.10.2017	02.10.2017	60,22,880	21,52,160
168	Russia	Elaboration of Manufacturing Technique of Flexible Semitransparent Solar Cells for Building Integrated Photovoltaics (BIPV) Based on Coarse-crystalline Monograin CdS/CZTS Powders	Prof. K. T. Ramakrishna Reddy	Sri Venkateswara University		Tirupati	Andhra Pradesh			30.01.2018	29.01.2021	70,30,800	26,30,400
169	Russia	Efficiency increase of III-V multijunction solar cells and modules with sunlight concentrators for photovoltaic installations	Dr. Nand Kishor	Motilal Nehru National Institute of Technology		Allahabad	Uttar Pradesh			31.01.2018	30.01.2020	52,02,400	25,47,200
170	Russia	Search for energy efficient materials for applications: a joint experimental and theoretical investigation on multifunctional Heusler alloys	Dr. K. G. Suresh, Professor	IIT Bombay		Mumbai	Maharashtra			24.05.2017	23.05.2019	21,65,200	11,32,600
171	Russia	Lanthanide - Actinide Separation Using Soft Donor Ligands: Theory and Experimental Studies	Dr. Prasanta K. Mohapatra	Bhabha Atomic Research Centre Trombay		Mumbai	Maharashtra			31.05.2017	30.05.2019	15,57,200	7,98,600
172	Russia	Development of the Multifactorial Computational Models of the Energetic Materials Combustion and Detonation by means of Data Science Methods	Dr. Charlie Oommen	Indian Institute of Science Bangalore		Bangalore	Karnataka			23.06.2017	22.06.2019	22,18,400	11,09,200/-
173	Russia	Experimental and theoretical studies of tensile deformation and fracture in presence of martensitic transformation in nano-, micro- and macro- structured alloys	Prof. K.A. Padmanabhan	Anna University Chennai		Chennai	Tamil Nadu			14.06.2017	13.06.2019	54,17,280	18,05,760
174	Russia	Corrosion and wear resistant ceramic composite coatings on reactor grade zircalloys by plasma electrolytic oxidation for nuclear Fuel cladding applications	Dr. N. Ramesh Babu	National Institute of Technology Tiruchirappalli		Tiruchirappalli	Tamil Nadu			09.06.2017	08.06.2020	19,27,200	9,63,600
175	Russia	Simulation of the transport phenomena and the phase changes in thorium and mixed uranium-plutonium oxide nuclear fuel	Dr. Sanjeev K. Gupta	St. Xavier's College		Ahmedabad	Gujarat			11.06.2017	10.06.2020	23,61,800	12,97,200
176	Russia	2D transition metal carbides (MXene) based hybrid symmetric/asymmetric supercapacitor for energy storage application	Dr. Kaushik Pal	IIT Roorkee		Roorkee	Uttarakhand			13.06.2017	12.06.2020	19,69,200	9,84,600
177	Russia	Development of High Energy Density Piezoelectric Materials for Vibration Energy Harvesting	Dr. Prasanta Kumar Panda	CSIR-National Aerospace Laboratories		Bangalore	Karnataka			18.06.2017	17.06.2020	31,37,200	15,13,600
178	Russia	Nanoarchitected fluorophosphate cathode & phosphorene-based hybrid anode for sodium-ion batteries	Prof. A. Vadeivel Murugan	Pondicherry Central University		Pondicherry	Pondicherry			29.09.2017	28.09.2020	35,06,384	26,33,192
179	Russia	Development of high performance computational codes and their applications for numerical simulation in compressible fluid dynamics and rarefied gas dynamics	Dr. Sudipta De	CSIR-Central Mechanical Engineering Research Institute		Durgapur	West Bengal			25.03.2017	24.03.2020	15,05,200	7,52,600
180	Russia	Computational Modeling, Design and Strength Analysis of Adaptive Microporous Materials with Controlled Properties	Dr. Amirtham Rajagopal	Indian Institute of Technology		Hyderabad	Andhra Pradesh			10.06.2017	09.06.2020	35,60,400	13,18,800
181	Russia	Computation and Communication Efficient Attribute Based Privacy Preserving Access Control Mechanism in Public Cloud	Dr. Manoj Kumar Shukla	Amity University		Noida	Uttar Pradesh			26.12.2017	25.12.2020	25,35,120	12,67,560
182	Russia	Development of energy efficient magnetic nanocomposite materials	Dr. Ashis Kumar Panda	National Metallurgical laboratory		Jamshedpur	Jharkhand			21.07.2017	20.07.2020	15,10,400	8,54,200
183	Russia	Study of the Process of Deformation and Fracture of Structural Materials in Accordance with their Multi-scale Structural State to Ensure Strength, Reliability, Durability and Safety for High Duty Structures	Dr. J. M. Chandra Kishen	Indian Institute of Science		Bangalore	Karnataka			23.06.2017	22.06.2020	17,62,200	8,81,100

184	Russia	Microstructural and electronic parameters of heterojunction solar cells on the base of Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> and Cu <sub>2</sub> (Sn,Ge)S <sub>3</sub> materials grown by dual ion beam sputtering	Dr. Shaibal Mukherjee	Indian Institute of Technology (IIT) Indore		Indore	Madhya Pradesh			25.05.2017	24.05.2020	20,89,600	10,44,800
185	Russia	Probing the ligand binding and structural dynamics of an enigmatic human chemokine receptor, the D6R by NMR	Dr. Arun Kumar Shukla	Department of BSBE, IIT - Kanpur, Kanpur		Kanpur	Uttar Pradesh			27.07.2017	26.07.2020	29,28,400	14,64,200
186	Russia	Synthesis and therapeutic potential of most promising anticancer, cytotoxic and anti-inflammatory beta carboline derivatives	Dr. Kakali Bhadra	University of Kalyani			West Bengal			21.07.2017	20.07.2020	21,36,400	10,68,200
187	Russia	Folding mechanism of Trans Activation Domain of E2A-PBX1, an Intrinsically Disordered Protein involved in Leukemia induction	Dr. Rajanish Giri	Indian Institute of Technology Mandi, Kamand		Kamand	Himchal Pradesh			24.07.2017	23.07.2020	23,39,200	11,69,600
188	Russia	Interplay of metabolic and signal pathways of N-acyl dopamines and cholesterol in cancer cells	Dr. Chandni C. Mandal	Department of Biochemistry, Central University of Rajasthan, Ajmer		Ajmer	Rajasthan			14.09.2017	13.09.2020	16,46,950	8,67,650
189	Russia	Cellular localization and functional characterization of the Voltage-gated Ca <sup>2+</sup> - channel VGCC and enzyme-rhodopsin COP5 in the microalga Chlamydomonas reinhardtii using genome editing, biochemical and transcriptomics approaches	Dr. Suneel Kateriya	Jawaharlal Nehru University		New Delhi	Delhi			21.07.2017	20.07.2020	24,21,200	12,10,600
190	Russia	New chromatin insulator-associated factors in Drosophila	Dr. Rakesh K Mishra	Centre for Cellular and Molecular Biology		Hyderabad	Telangana			18.11.2017	17.11.2020	20,30,000	10,15,000
191	Russia	Probing of interactions between proteins from bacterium Neisseria gonorrhoeae mismatch repair system by mass spectrometric analysis of crosslinked biomolecules	Dr. D.N. Rao	Department of Biochemistry, Indian Institute of Science Bangalore		Bangalore	Karnataka			06.09.2017	05.09.2020	27,94,400	13,97,200
192	Russia	The phase structured coherent light beams for enhanced transmission	Dr. Jayachandra Bingi	Indian Institute of Information Technology, Design and Manufacturing, Kurnool		Kurnool	Andhra Pradesh			22.08.2017	21.08.2020	19,53,400	9,76,700
193	Russia	The establishment of the relationship between composition, atomic structure and properties of crystalline materials with hydrogen bonds	Dr. R. Chitra	Solid State Physics Division, Bhabha Atomic Research Centre, Trombay		Mumbai	Maharashtra			08.08.2017	07.08.2020	13,74,400	6,87,200
194	Russia	Modeling and experimental investigation of half-metallic epitaxial films based on Heusler alloys for spin-injection Terahertz and Far-Infrared Photonics	Dr. Dibya Prakash Rai	Department of Physics, Pachhunga University College		Aizawl	Mizoram			25.10.2017	24.10.2020	27,09,120	16,78,560
195	Russia	Determination of the fundamental characteristics of interstellar extinction	Dr. Jayant Murthy	Indian Institute of Astrophysics, Koramangala		Bangalore	Karnataka			24.07.2017	23.07.2020	16,21,600	8,10,800
196	Russia	A systematic study of fusion and quassifission in heavy nuclei - paving the road to new element synthesis	Dr. E. Prasad	School of Mathematical and Physical Sciences, Central University of Kerala		Kasaragod	Kerala			01.11.2017	30.10.2017	18,57,200	9,28,600
197	Russia	Magnetic properties and structure transformations in binary Fe-Pd and ternary Fe-Pd-M(M-Ni,Ga) alloys. Experimental investigation and ab-initio	Dr. Arti Kashyap	IIT - Mandi		Mandi	Himachal Pradesh			26.07.2017	25.07.2020	19,86,400	9,93,200
198	Russia	Studies of the molecular orientation and radiation damage of DNA adsorbed on Zirconia	Dr. Subrata Majumder	Department of Physics, National Institute of Technology, Ashok Rajpath		Patna	Bihar			11.08.2017	10.08.2020	18,11,200	9,05,600
199	Russia	New multiferroical huntites with giant effects: synthesis, experimental and theoretical investigation of pyroelectric, magnetic and ferroelectric properties	Dr. Dinesh Kumar Shukla	UGC-DAE Consortium of Scientific Research		Indore	Madhya Pradesh			25.08.2017	24.08.2020	24,04,400	12,02,200
200	Russia	Stars,late-type, magnetic activity, flares	Dr. Jeewan C. Pandey	Aryabhata Research Institute of Observational Sciences (ARIES), Manora Peak		Nainital	Uttarakhand			16.01.2018	15.01.2021	5,00,000	2,50,000
201	Russia	Ultrabright plasma-based gamma ray sources with petawatt laser pulses	Dr. Punit Kumar	Department of Physics, University of Lucknow		Lucknow	Uttar Pradesh			21.07.2017	20.07.2020	14,05,200	7,02,600

202	Russia	Study of non-collinear spin textures in asymmetric antiferromagnetic and ferromagnetic multilayer nanostructures with the Dzyaloshinski-Moriya interaction enhanced by interface engineering	Dr. Jyoti Ranjan Mohanty	IIT Hyderabad		Hyderabad	Telangana			21.07.2017	20.07.2020	18,22,400	9,11,200
203	Russia	Topological phase transitions in quasi-two-dimensional magnets	1. Dr. Tanusri Saha-Dasgupta	Dept. Condens. Matter Physics and Materials Science, S.N.Bose National Centre for Basic Sciences, Kolkata		Kolkata	West Bengal			25.07.2017	24.07.2020	23,68,400	11,84,200
204	Russia	Investigation of structural, optical, magnetic properties and electronic structure of binary inter-metallic alloys for the spintronic applications	Dr. M.Vasundhara	Materials Science & Technology Division, CSIR-National Institute for Interdisciplinary Science and Technology		Thiruvananthapuram	Kerala			26.09.2017	25.09.2020	11,25,200	6,66,600
205	Russia	Probing the reionization epoch and the high redshift IGM	Dr. Shiv Sethi	Raman Research Institute		Bangalore	Karnataka			26.09.2017	25.09.2020	4,65,200	2,32,600
206	Russia	Response of near-surface anisotropic objects in the electromagnetic field of a high-frequency horizontal electric dipole	Dr. Sudha Agrahari	Department of Geology and Geophysics, Indian Institute of Technology		Kharagpur	West Bengal			29.09.2017	28.09.2020	13,92,100	7,16,200
207	Russia	Mesoproterozoic microbios of Eurasia: an integrated approach to the Indian and Russian early eukaryote-dominated assemblages	Dr. Mukund Sharma	Birbal Sahni Institute of Palaeosciences		Lucknow	Uttar Pradesh			26.09.2017	25.09.2020	19,82,800	10,90,400
208	Russia	Petrology and geology of Archaean greenstone complexes of the Bundelkhand (Indian Shield) and Karelian (Fennoscandian Shield) Cratons: Implication for geodynamic reconstruction of the early Earth	Dr. Vinod K. Singh	Department, of Geology, Bundelkhand University		Jhansi	Uttar Pradesh			21.07.2017	20.07.2020	11,18,000	5,59,000
209	Russia	Approach for the processing of data of vibro-seismic waves records and theoretical investigations on seismic waves	Dr. S. Kundu	Department of Applied Mathematics, IIT(ISM)		Dhanbad	Jharkhand			31.07.2017	30.07.2020	14,22,400	8,01,200
210	Russia	Petrology, ore-potential and genesis of alkaline and carbonatite complexes of Indian and Aldan shields	Dr. Prosenjit Ghosh	Centre for Earth Sciences, Indian Institute of Science		Bangalore	Karnataka			26.09.2017	25.09.2020	33,18,400	16,59,200
211	Russia	Application of a Novel Viscoplastic Material Model for Sheet Forming of Polymer-Metal Powder Aggregates: Experiments and Modelling	Prof. P. P. Date	Department of Mechanical Engineering, IIT Bombay, Powai	Powai	Mumbai	Maharashtra			27.09.2017	26.09.2020	22,51,360	11,25,680
212	Russia	Effect of alloying on kinetics of globularization during hot deformation of two-phase titanium alloys	Dr. K.S. Suresh	Department of Metallurgical and Materials Engineering, Indian Institute of Technology		Roorkee	Uttarakhand			14.11.2017	13.11.2020	22,28,400	11,14,200
213	Russia	Evaluation of the lightning attachment to different protection schemes	Dr. Udaya Kumar	Department of EE, Indian Institute of Science		Bangalore	Karnataka			04.09.2017	03.09.2020	19,65,720	9,55,360
214	Russia	Theoretical and experimental research of compositematerials and structuresbehavior taking into account their manufacturing processes, intensivedeformation, and fracture	Prof. R Velmurugan	Department of Aerospace Engg, Indian Institute of Technology, Madras	Madras	Chennai	Tamil Nadu			17.11.2017	16.11.2020	21,70,400	10,85,200
215	Russia	Study of basic principles of phase transition in metal drops at nanoscale under electric current and laser radiation	Dr. Praveen Kumar	Department of Materials Engineering, Indian Institute of Science (IISc)		Bangalore	Karnataka			26.09.2017	25.09.2020	18,65,600	9,32,800
216	Russia	Conjugacy problems in Groups of Lie type	Dr. Anupam Singh	IISER Pune	Pashan	Pune	Maharashtra			11.07.2017	10.07.2020	26,16,000	13,08,000
217	Russia	Development of New Control Schemes with Optimal Trajectory Planning for a Group of Autonomous Underwater Robots in Unknown Environments	Dr. Bidyadhar Subudhi	Dept. of Electrical Engineering, National Institute of Technology Rourkela, Odisha		Rourkela	Odisha			26.09.2017	25.09.2020	20,19,400	10,09,400
218	Russia	Novel Methods of Logic Analysis And Optimization For Reconfigurable Computer Architectures	Dr. Soumitra K Nandy	CAD Lab Computational & Data Sciences, Indian Institute of Science		Bangalore	Karnataka			28.09.2017	27.09.2020	21,45,008	10,72,504
219	Russia	Structure based design and synthesis of novel antitumor eteroareneanthracenediones	Dr. Punit Kaur	Dept. of Biophysics, All India Institute of Medical Sciences	Ansari Nagar	New Delhi	Delhi			15.09.2017	14.09.2020	24,48,400	12,24,200
220	Russia	Regularities of low molecular weight analysts detection by natural and synthetic receptors: Comparative analysis and application in the development of systems for antibiotics detection	Dr. Nazia Tarannum	Dept. of Chemistry, Chaudhary Charan Singh University		Meerut	Uttar Pradesh			05.10.2017	04.10.2020	13,68,640	7,09,320

221	Russia	IMDAV (Intra Molecular Diels-Alder reaction in vinylarenes / vinylheterarenes) approach in the synthesis of lactone / lactam scaffolds for biological studies and natural product synthesis	Prof. S. G. Tilve	Department of Chemistry, Goa University		Taleigao Plateau	Goa				12.10.2017	11.10.2020	13,14,000	6,57,000
222	Russia	The design, synthesis and evaluation of antiproliferative activity of novel fused N-heterocyclic derivatives of steroids	Dr. Alakananda Hajra	Department of Chemistry, Visva-Bharati University, Santiniketan		Santiniketan	West Bengal				31.07.2017	30.07.2020	22,27,200	11,13,600
223	Russia	Development of novel heterocyclic compounds as inhibitors of influenza virus neuraminidase	Dr. Srinivas Kantevari	CSIR-Indian Institute of Chemical Technology		Tarnaka	Hyderabad	Telangana			26.09.2017	25.09.2020	24,44,160	12,22,080
224	Russia	Diatom and cyanobacteria flora of Peninsular India: molecular reinvestigation of endemic and cosmopolitan taxa across biodiversity hotspot (Western Ghats)	Dr. Karthick Balasubramanian	Biodiversity & Paelobiology Agharkar Research Institute		GC Agarkar Road	Pune	Maharashtra			16.08.2017	15.08.2020	12,24,700	6,86,600
225	Russia	Nucleation on nanostruc Ultrafast Dynamics of Excitons and Charge Carriers in the White-Light-Emitting Quantum Dots Produced at Low Temperature	Dr. Jayant K. Singh	Indian Institute of Technology			Kanpur	Uttar Pradesh			26.09.2017	25.09.2020	14,98,800	7,49,400
226	Russia	Functional properties of electro- and magnetostriuctive materials based on transition metal oxides synthesized by hydrothermal sol-gel method	Dr. Radheshyam Rai	Department of Physics and Materials science, Eternal University			Himachal Pradesh	Himachal Pradesh			10.02.2018	09.02.2021	11,66,400	5,83,200
227	Russia	Ultrafast Dynamics of Excitons and Charge Carriers in the White-Light-Emitting Quantum Dots Produced at Low Temperature	Dr. Mohan Singh Mehata	Department of Applied Physics, Delhi, Technological University (DTU)		Main Bawana Road	New Delhi	Delhi			28.09.2017	27.09.2020	19,75,200	9,87,800
228	Russia	Study of thermophysical properties of nanofluids and their flows for the design of new generation coolants for industrial applications	Dr. Sarith P Sathian	Department of Applied Mechanics, Indian Institute of Technology Madras			Chennai	Tamil Nadu			22.08.2017	21.08.2020	20,86,400	10,43,200
229	Russia	Lower atmospheric forcing leading to modifications in the upper atmosphere	Prof. Minakshi Devi	Department of Physics, Gauhati University			Guwahati	Assam			26.09.2017	25.09.2020	36,30,900	25,88,200
230	Russia	Creation of novel high performance membrane materials and membranes based on them	Prof. Dr. Susanta Banerjee	Materials Science Centre, Indian Institute of Technology			Kharagpur	West Bengal			21.07.2017	20.07.2020	26,24,320	13,12,160
231	South Africa	Evolution of cold Gas in Galaxies: Large surveys using radio and optical Telescopes-Enhanced Exchange programme	Prof. Neeraj Gupta	Inter University Centre for Astronomy and Astrophysics (IUCAA), Pune, India		Ganeshkhind	Pune	Maharashtra			28.04.2016	28.04.2019	Rs. 25,39,500/-	Rs. 8,46,500/-
232	South Africa	Developing Machine Learning Tools for Big Data MeerKAT, MeerLIGHT, GMRT, SALT and the SKA: Enhanced Exchange Programme	Dr. Ninan Sajeeth Philip	St. Thomas College (Mahatma Gandhi University), Kozhencherri, India		Kozhencherri		Kerala			21.04.2016	21.04.2019	Rs. 20,52,500/-	Rs. 6,97,500/-
234	South Africa	Galaxy Evolution: Simulation, observations and data analysis: Enhanced Exchange Programme	Prof. Kanak Saha	Inter University Centre for Astronomy and Astrophysics, Pune, India		Pune		Maharashtra			28.03.2016	20.03.2019	Rs. 11,34,000/-	Rs. 3,78,000/-
235	South Africa	Exploring Design Options for New Optical Telescopes in South Africa and India	Dr. Padmakar Singh Parihar	Indian Institute of Astrophysics, Bangalore, India		Bangalore					30.05.2016	30.05.2019	Rs. 16,74,250/-	Rs. 6,72,600/-
236	South Africa	Extragalactic Astronomy and Cosmology using GMRT, MeerKat and The SKA: Workshop	Dr. Tirthankar Roy Choudhury	National Centre for Radio Astrophysics, NCRA-TIFR, Pune University Campus, Pune, India		Pune		Maharashtra			11.07.2016	11.07.2019	Rs13,68,750/-	Rs.3,00,000/-
237	South Africa	Astronomical compact objects to probe gravitational theories	Prof. Sushant G. Ghosh	Centre for theoretical Physics, Jamia Millia Islamia, New Delhi, India		Jamia Millia Islamia	New Delhi	Delhi			12.07.2016	12.07.2019	Rs 14,47,500/-	Rs 4,82,500/-
238	South Africa	Joint Exploration of the Deep Radio Sky with MeerKat and the GMRT: The Pathway to the SKA	Dr. Dharam Vir Lal	National Centre for Radio Astrophysics, Tata Institute of Fundamental Research, Pune		Pune		Maharashtra			12.07.2016	12.07.2019	Rs 13,39,050/-	Rs 1,90,100/-
239	South Africa	SKA1 Telescope Manager Test Environment and Simulation Framework Prototype	Prof. Yashwant Gupta	Radio Astronomy, National Centre for Radio Astrophysics, NCRA-TIFR, Pune University Campus, Pune, India		Pune		Maharashtra			07.10.2016	07.10.2019	Rs 15,80,800/-	Rs 5,90,300/-
240	South Africa	Cell death induced by combination of photodynamic therapy with phytochemicals isolated from Vaccinium nilgiriensis on breast cancer therapy-an in vitro approach	Prof. T. Parimelazhagan	Department of Botany, Bharathiar University, Coimbatore-641046, Tamilnadu, India			Coimbatore	Tamilnadu			15.09.2016	15.09.2019	Rs 33,65,550/-	Rs 11,34,750/-

241	South Africa	Characterization of withanolide biosynthetic pathway genes and withanolide contents in vegetative and reproductive phase of <i>Withania somnifera</i> (L.) Dunal under salinity stress	Dr. A Muthusamy	School of life Sciences, Manipal University, Manipal - 576104, Karnataka, India		Manipal	Karnataka			15.09.2016	15.09.2019	Rs 26,45,880/-	Rs 8,68,100/-
242	South Africa	Enhancing drought tolerance in crops species using biotechnological approaches	Prof. Sanjib Kumar Panda	Life Sciences & Bioinformatics, Assam University, Silchar-788011, India		Silchar	Assam			13.10.2016	13.10.2019	Rs 33,73,650/-	Rs 11,11,350/-
243	South Africa	Evaluation of nutraceuticals derived from indigenous millets for anti-tumorigenic activity and its action on the potential therapeutic targets, Notch4 and TBX3, in Oral Squamous Cell Carcinoma (OSCC)	Dr. Devi.A	Dept. of Genetic Engineering, School of Bioengineering, SRM University, Kattankulathur, Tamil Nadu, India		Kattankulathur	Tamil Nadu			30.10.2016	30.10.2019	Rs 28,57,700/-	Rs 7,84,700/-
244	South Africa	Development of Moringa Enriched Isothiocyanate as Nutraceutical Activator of Nrf2 signaling for mitigation of dyslipidemia	Dr. Rajesh Kurma Thimmulappa	Department of Biochemistry, JSS University, Mysore, Karnataka, India		Mysore	Karnataka			18.11.2016	18.11.2019	Rs 32,81,350/-	Rs 11,25,700/-
245	South Africa	Nutritional and nutraceutical properties of cereal and legume – based traditional foods from India and South Africa and their role in addressing malnutrition, hidden hunger and chronic non-communicable diseases	Dr. Saikat Datta Mazumdar	International Crops Research Institute for the semi-arid tropics, (ICRISAT), Patancheru, Telangana, India		Patancheru	Telangana			28.02.2017	28.02.2020	Rs 41,91,450/-	Rs 13,86,590/-
246	South Africa	Development of a riboflavin-enriched probiotic fermented product to mitigate riboflavin deficiency in Indian and South African children	Vijendra Mishra	Basic and Applied Sciences (Microbiology), National Institute of Food Technology Entrepreneurship and Management, Plot 97, Sector-56, HSIDC, Kundli, Sonipat, Haryana, India	Kundli	Sonipat	Haryana			09.12.2016	09.12.2019	Rs 32,11,600/-	Rs 9,09,700/-
247	South Africa	Structural and functional analyses of Geminiviral Rep Proteins	Prof. Supriya Chakraborty	School of Life Sciences, Jawaharlal Nehru University, New Mehrauli Road, New Delhi, India	New Mehrauli Road	New Delhi	Delhi			18.01.2017	18.01.2020	Rs 38,39,100/-	Rs 12,45,600/-
248	South Africa	Investigation of Traditional Medicines used as Anti-infectives and against Neurodegenerative Disease	Prof. Pulok K Mukherjee	School of Natural Products Studies, Department of Pharmaceutical Technology, Jadavpur University, Kolkata, India		West Bengal	Kolkata			15.12.2016	15.12.2019	Rs.35,09,010/-	Rs 11,35,350/-
249	South Africa	Investigations into the cancer chemopreventive activities of the dietary flavonol fisetin	Prof. Rana P. Singh	School of Life Sciences, Jawaharlal Nehru University, New Delhi, India	New Mehrauli Road	New Delhi	Delhi			19.12.2016	19.12.2019	Rs.37,74,140/-	Rs 12,11,730/-
250	South Africa	Development of innovative Indigenous knowledge system (IKS)-based new cosmetic material: Isolation, extraction and chemical profiling of melanin biosynthesis pathways-based natural compounds from Indian and South African medicinal plants	Dr Sandeep Chaudhary	Department of Chemistry, Malaviya National Institute of Technology, Jaipur Jawaharlal Nehru Marg, Jaipur, Rajasthan, India		Jaipur	Rajasthan			08.11.2016	08.11.2019	Rs.33,36,090/-	Rs 10,80,350/-
251	South Africa	In vitro mass culture of <i>Steinernema jeffreyense</i> , a biocontrol agent key insect pests	Dr. Prasanna Belur D	Chemical Engineering, National Institute of Technology Karnataka(NITK), Surathkal, Srinivasanagar, Mangalore, India		Srinivasanagar	Mangalore			07.12.2016	07.12.2019	Rs.28,16,230/-	Rs 7,99,600/-
252	South Africa	Development and Standardization of <i>Harpagophytum procumbens</i> (Devil's Claw) herbal formulations for the treatment of low back pain as per regulatory requirements	Prof. Buchi N. Nalluri	KVSR Siddhartha College of Pharmaceuticals Sciences, Siddhartha Nagar, Vijayawada Andhra Pradesh, India		Vijayawada	Andhra Pradesh			17.11.2016	17.11.2019	Rs.29,72,250/-	Rs 9,76,350/-

253	Spain	Fire Fighting Hopper	Mr. K S Swami Mr. Devanathan Mookiaha	Cast Craft Pvt Ltd., Bangalore Poeir Jets Pvt Ltd., Bangalore		Bangalore	Karnataka	Design and manufacturing of a heavy payload multirotor platform as a firefighting quick-response drone.	The project aims to design, develop and manufacture a heavy payload multirotor autonomous flying platform called as Drone Hopper to be used as a firefighting quick-response Drone, capable of transporting and releasing 150 litres of water (with additives) precisely, at a low altitude, over the fire. The platform will consist of a hexacopter multirotor powered by 6 independent turboshaft turbines. Each turbine will be combined to a reduction gearbox to adapt rpm to the optimum operational point for the propellers.	Smart Cities	15-12-2017	14-12-2019	90,00,000	0
254	Spain	Green Hybrid Unmanned Aerial Vehicle for Societal Applications	Mr. M Parvez Alam Dr. P Aravindan	UCAL Fuel Systems Ltd. Chennai Dr. M.G.R. Educational and Research Institute (Dr. M.G.R. University) Chennai		Chennai	Tamil Nadu	The Green Hybrid Unmanned Aerial Vehicle (G-HUAV) will be powered by thin film solar technology which will enable the expected payload capacity of the vehicle and will combine the capability of Vertical Takeoff and landing in Cluttered Terrain as that of a Multicopter + Endurance and Performance of a Fixed Wing Aircraft as well as Deployment from confined areas without runway.	The system with its longer endurance finds the following applications: Disaster Management, Pipeline Monitoring, Power Line Monitoring, Railway Line Monitoring, Precision Agriculture, Forest and wildlife monitoring, Mining Surveillance	Smart Cities	15-12-2017	14-12-2019	150,00,000	0
255	Spain	New Concept of Greenhouse Cooling System for Warm Climates	Mr. Sanjay T Kulkarni Dr Nithyanandhan	Ester Industries Ltd. Gurgaon National Chemical Laboratory, Pune		Gurgaon	Haryana	Development of new type of greenhouse for warm climate zones	The aim of this project is to develop a new type of greenhouse for warm climate zones, designed to efficiently control environmental factors such as high temperature and radiation. The main focus is to design/develop an innovative cover material which allows the flow of a photosensitive fluid through a double layer system in order to control/filter incident radiation, and the installation of an innovative refrigeration tower to control temperature and humidity, with the aim of achieving the following advantages: Cool the greenhouse	Smart Cities	N.A.	N.A.	150,00,000	0
256	Sri Lanka	Characterising Landfill Gas Emissions: Experimental And Numerical Investigation (CLEAN)	Prof. Sivakumar Babu	Indian Institute of Science		Bangalore	Karnataka				10.02.2018	09.02.2020	22,28,460/-	11,80,480/-
257	Sri Lanka	Wireless Sensor in- Network distributed Detection Mechanisms for Structural Health Monitoring in Civil Structures	Dr. K.K. Pattanaik	Atal Bihari Vajpayee, Indian Institute of Information Technology & Management		Gwalior	Madhya Pradesh				04.10.2017	03.10.2019	8,89,200/-	4,44,600/-
258	Sri Lanka	Design and Development of Hybrid Wind- Solar Power Generation System using Multilevel Inverter for Grid Connected Application	Dr. P. Satish Kumar	Osmania university		Hyderabad	Andhra Pradesh				19.01.2018	18.01.2021	24,42,800/-	10,22,000/-
259	Sri Lanka	Design and Development of Detection and Extinguishing Systems for Forest Fire using Sensor Networks, Aerial and Ground Robots	Dr. Paramita Guha	CSIR-Central Scientific Instruments Organisation,		New Delhi	Delhi				23.01.2018	22.01.2021	29,68,000/-	11,69,000/-

260	Sri Lanka	Process development and assessment/evaluation of microalgae based biofuels and value-added products	Dr. Anushree Malik	Indian Institute of Technology (IIT) Delhi		New Delhi	Delhi			20.10.2017	19.10.2019	30,19,684/-	13,08,592/-
261	Sri Lanka	Electronic and Photovoltaic properties of Two-Dimensional Hybrid Organic and Inorganic Perovskites	Professor Prafulla K. Jha	The M.S. University of Baroda		Vadodara	Gujarat			28.07.2017	27.07.2019	15,38,000/-	7,96,000/-
262	Sri Lanka	Bioprospecting Endolichenic Fungi from mangroves in Negombo Lagoon in Sri Lanka and Gulf of Khambat, Gulf of Kutch from Gujarat India; An Untapped Treasure Trove for Discovery of Special Structures and Bioactive Compounds	Dr. Bhagyashree kamble	National Institute of Pharmaceutical Education and Research		Ahmedabad	Gujarat			18.11.2017	17.11.2020	24,19,200/-	8,92,000/-
263	Sri Lanka	Studies in surface sterilization of spices using non-thermal processes	Prof. U.S. Annapure	Institute of Chemical Technology		Mumbai	Maharashtra			22.11.2017	21.11.2019	25,08,000/-	14,04,000/-
264	Sri Lanka	Probing the provenance and distribution of heavy-mineral placer deposits in coastal areas of southern India and SW Sri Lanka; A new multi-mineral proxy approach to understand source - to-sink link	Prof. Sanjeev Krishnan	Indian Institute of Science		Bangalore	Karnataka			16.11.2017	15.11.2019	17,61,000/-	6,20,000/-
265	Sri Lanka	Renewable chemicals from the plants of Indian Subcontinent: Isolation, self-Assembly and Utilization in Drug delivery, medicine and Catalysis	Dr. Braja Gopal Bag	Vidyasagar University		Medinipur	West Bengal			23.10.2017	22.10.2019	21,44,000/-	9,48,000/-
266	Sri Lanka	Forming of automotive materials at elevated temperature and selection of lubricants for sustainable manufacturing	Dr. R. Ganesh Narayanan	IIT Guwahati		Guwahati	Assam			28.09.2017	27.09.2019	11,11,000/-	6,25,000/-
267	Sri Lanka	Dynamic analysis and shape control of inflatable structures for space application	Dr. S. H Upadhyay	IIT Roorkee		Roorkee	Uttarakhand			28.09.2017	27.09.2019	26,41,568/-	14,08,000/-
268	Sweden	In Silico Studies of Magnetic and Vibrational Properties of Porphyrins for Diagnostic Applications	Dr. Md. Ehesan Ali	Institute of Nano Science & Technology	Mohali	Mohali	Punjab			31-08-2017	(2 Years) 30-08-2019	31,62,500/-	15,81,250/-
269	Sweden	Use of nanoparticles as protein aggregation modulators for health care and pharmaceutical applications	Dr. V Subramanian	Chemical Laboratory CSIR - Central Leather Research Institute Adyar Chennai	Adyar	Chennai	Tamil Nadu			21-06-2017	(2 Years) 20-06-2019	31,77,800/-	Rs.19,56,000/-
270	Sweden	Deep Learning for Life Sciences	Dr. M. Michael Gromiha	Department of Biotechnology Indian Institute of Technology Madras Chennai	Madras	Chennai	Tamil Nadu			23-05-2017	(2 Years) 22-05-2019	29,33,520/-	14,66,760/-
271	Sweden	Role of allosteric mutations in HIV - 1 protease drug resistance: Useful insights for rational drug design	Prof. Sanjib Senapati	Department of Biotechnology, I.I.T. Madras, Chennai	Madras	Chennai	Tamil Nadu			18-05-2017	(2 Years) 17-05-2019	33,36,840/-	18,23,760/-
272	Sweden	How do neuronal variability and noise affect network computations	Prof. Upinder Bhalla	National Centre for Biological Sciences, TIFR, Bellary Road, Bangalore	Bangalore	Bangalore	Karnataka			14-08-2017	(2 Years) 13-08-2019	33,18,000/-	24,51,000/-
273	Sweden	Understanding the association between the prevalence of antibiotic resistance and CRISPR repeats in UPEC E. coli causing UTI	Dr. Manisha Yadav	Centre for Biomedical Research (ACBR), University of Delhi	University Enclave	North Delhi	Delhi			25-07-2017	(2 Years) 24-07-2019	33,31,360/-	17,61,800/-
274	Tunisia	"Sustainable and Economical Functionally Graded Rubberized Concrete Pavements"	Dr. Sandeep Chaudhary	Malviya National Institute of Technology, J.L.N. Marg, Jaipur	Jaipur		Rajasthan			24.07.2017	24.07.2019	Rs. 7,88,000/-	Rs. 3,94,000/-
275	Tunisia	Characterization of Oil Field Water to Mitigate a Major Environmental Hazard with Recovery of Usable Water	Dr. Subrata Borgohain Gogoi	Dibrugarh University, Assam, India	Rajapeta	Dibrugarh	Assam			20.06.2017	20.06.2019	Rs. 11,00,000/-	Rs. 5,50,000/-
276	Tunisia	Hierarchical Control of Hybrid Power System	Dr. Somnath Maity	Research and Technology Center of Energy (CRTeN) National Institute of Technology, Rourkela, Odisha	Rourkela		Odisha			19.06.2017	19.06.2019	Rs. 8,38,600/-	Rs. 4,19,300/-
277	Tunisia	Diversity of tomato seed-bore endophytes and their application for the promotion of plant growth and defences against pathogens	Dr. Nutan Kaushik	The Energy and Resources Institute (TERI), Lodhi Road New Delhi, India	Lodhi Road	New Delhi	Delhi			11.12.2017	11.12.2019	Rs. 23,40,000/-	Rs. 11,70,000/-
278	Tunisia	Phytoremediation of Heavy-Metal Contaminated Soils in Tunisia and India using Frankia-Alnus symbiosis	Dr. Arnab Sen	University of North Bengal, Siliguri, West Bengal, India	Siliguri	Darjeeling	West Bengal			14.07.2017	14.07.2019	Rs. 13,80,000/-	Rs. 6,90,000/-
279	Tunisia	Development of starch based polyurethane nano-coatings for packaging applications by sonochemical approach	Dr. Shirish Sonawane	National Institute of Technology, Telangana, India	Warangal		Telangana			27.06.2017	27.06.2019	Rs. 14,45,000/-	Rs. 7,10,000

280	Tunisia	Synthesis of novel low-cost biosorbents based on modified cellulose agro-wastes by tetraethylenepentamine, triethylenetriamine and adsorption study for anionic dyes removal	Prof. Sunil Khare	Indian Institute of Technology, New Delhi	Hauz Khas	New Delhi	Delhi				19.06.2017	19.06.2019	Rs. 18,16,600/-	Rs. 9,08,300/-
281	Tunisia	Design, Modeling and Diagnostic of wind turbines for sustainable energy efficiency	Prof. Anand Parey	IIT Indore, Simrol, India	Khandwa Road	Simrol	Indore				24.03.2017	24.03.2019	Rs. 10,80,000/-	Rs.5,40,000/-
282	Tunisia	Development of multi stage fluid bed biomass gasification system	Dr. Anbumalar V	Velammal College of Engineering and Technology, Viraganoor, Madurai	Viraganoor	Madurai	Tamilnadu				05.07.2017	05.07.2019	Rs. 17,20,000/-	Rs. 8,60,000/-
283	Tunisia	Comparative study of Shiga Toxin Producing Escherichia coli biodiversity in India and Tunisia: An integrated surveillance and molecular characterization of Shiga Toxin producing Escherichia coli (SRCE) and its antimicrobial resistance and zoonotic significance	Dr. Jagdeesh Babu	Sri Venkateswara Veterinary University, Andhra Pradesh, India	Visvavidyalayam	Tirupati	Andhra Pradesh				27.06.2017	27.06.2019	Rs. 16,90,000/-	Rs.8,45,000/-
284	Tunisia	An Exploratory Study of the Role of Inflammasomes on Aberrant Neurodevelopment in Schizophrenia	Dr. John P. John	National Institute of Mental Health and Neurosciences (NIMHANS), Karnataka, India	Milk Dairy	Bangalore	Karnataka				19.06.2017	19.06.2019	Rs. 34,43,600/-	Rs.19,69,300/-
285	Tunisia	Studying vascular implications of scorpion venom by using whole human kinome testing platform	Prof. Suvro Chatterjee	Anna University, Chennai, India	Guindy	Chennai	Tamilnadu				22.06.2017	22.06.2019	Rs.23,90,960/-	Rs. 11,95,480/-
286	Tunisia	Consequences of long and intensive use of agrochemicals on the legumes-rhizobia symbiosis and potentialities of remediation	Prof. Manvika Sehgal	G.B Pant University of Agriculture & Technology, India	Pantnagar		Uttarakhand						Rs.35,53,600/-	Rs. 20,51,800/-
287	Tunisia	Development and Tribological Characterization of Self Lubricating Nano-Silicon Nitride and Nano-Sialon Ceramic Composites	Dr. Mohd Farooq Wani	National Institute of Technology (NIT) Srinagar, J&K, India	Hazaratbal	Srinagar	Jammu & Kashmir				19.06.2017	19.06.2019	Rs. 21,60,000/-	Rs.10,80,000/-
288	Tunisia	Real-time end-to-end Text Detection and Recognition in the Wild	A. Umapada PAL	Indian Statistical Institute, Kolkata, India	Trunk Road	Kolkata	West Bengal				19.06.2017	19.06.2019	Rs. 22,90,800/-	Rs.11,45,000/-
289	Tunisia	A new three axis MEMS accelerometer based on piezoresistive	Prof. V.Ramgopal Rao	Indian Institute of Technology- Bombay, India	Powai	Mumbai	Maharashtra				31.07.2017/02.08.2017	31.07.2019/02.08.2019	Rs.33,64,960/-	Rs.16,82,480/-
290	Tunisia	Development of an immunohistochemistry assay to detect Mycobacterium tuberculosis PknB PASTA antigen for diagnosis of extrapulmonary tuberculosis	Prof. Vinay Nandicoori	National Institute of Immunology, Aruna Asaf Ali Marg, Delhi, India	JNU	New Delhi	Delhi				18.09.2017	18.09.2019	Rs. 29,43,280/-	Rs. 14,50,000/-
291	Tunisia	Proteomic analysis of the interaction of Agrobacterium tumefaciens and Erwinia amylovora bacterial phytopathogens with Bacillus biocontrol agents and their active compounds in vitro and in planta	Dr. Sanjeeva Srivastava	Indian Institute of Technology, Bombay, Powai	Powai	Mumbai	Maharashtra				10.10.2017	10.10.2019	Rs. 12,60,000/-	Rs. 9,35,000/-
292	Tunisia	Identification of major genetic and epigenetic components in the otosclerosis	Dr. PV Ramachander	Institute of Life Sciences (ILS), (an autonomous Institute of DBT, GOI), Bhubaneswar, Odisha	Bhubaneswar		Odisha				20.21.2017	20.12.2019	Rs. 25,26,400/-	Rs.12,63,800/-
293	UK	Peptide Based Semiconducting Materials for Organic-electronic devices	Dr. Debapratim Das,	Indian Institute of Technology Guwahati		Guwahati	Assam				24.07.2017	23.07.2020	11,58,750/-	3,86,250/-
294	UK	Past, present and future of bats in Western and Central India – impact and implications of climate change on species ranges	Dr. Chelmala Srinivasulu	University College of Science Osmania University		Hyderabad	Andhra Pradesh				24.07.2017	23.07.2020	46,23,000/-	15,41,000/-
295	UK	Methanol Fed High Energy Density Fuel Cell System with Novel Catalyst and Flow Field Design	Dr. P. Karthikeyan	PSG College of Technology		Coimbatore	Tamilnadu				07.07.2017	06.07.2020	42,01,740/-	13,86,060/-
296	UK	Nonlinear Interaction between Extreme Waves and Floating Bodies with Deformable Structures	Dr. V. Sriram,	IIT Madras		Chennai	Tamil Nadu				12.07.2017	11.07.2020	29,74,480/-	11,21,000/-
297	UK	Mode of CD40 clustering dictates its functional duality	Dr Bhaskar Saha,	National Centre for Cell Science		Pune	Maharashtra				13.06.2017	12.06.2020	69,63,720/-	23,19,800/-
298	UK	Novel Computational Methodologies for Modelling and Characterization of Corrosion Pitting and cracking in Metallic Structures	Prof. S. Gopalakrishnan,	Indian Institute of Science		Bangalore	Karnataka				18.07.2017	17.07.2020	24,78,000/-	8,26,000
299	UK	Theoretical and experimental studies of suspensions of magnetic nanoparticles, their applications and generalizations.	Dr. Varsha Banerjee,	Indian Institute of Technology, Delhi		Delhi	Delhi				26.05.2017	25.05.2020	45,48,000	13,28,800

300	UK	Environmental adaptation and resilience to climate change: investigating the sustainability of the Indus Civilisation (Indus Sustainability)	Prof. Ravindra Nath Singh	Banaras Hindu University		Varanasi	Uttar Pradesh				06.06.2017	05.06.2020	25,44,000	8,48,000
301	UK	Tidal Energy for Sustainable Village Electricity Supply in the Indian Sundarbans Biosphere	Prof. Prasad Kumar Bhaskaran,	Indian Institute of Technology Kharagpur		Kharagpur	West Bengal				16.05.2017	15.05.2020	46,95,000	17,30,000
302	UK	Development of Cost-effective and Green Assay Technology for the Selective Detection of Toxic Metal Ions using Functionalized Gold Nanoparticles.	Dr.(Mrs) Nilotpala Pradhan	Institute of Minerals &Materials Technology		Bhubaneswar	Orissa				27.09.2017	26.09.2020	38,20,770	12,57,750
303	UK	Big Data Aware High Capacity Wireless Network Architecture Using Caching and Machine Learning	Dr Vimal Bhatia,	Indian Institute of Technology Indore		Indore	Madhya Pradesh				22.06.2017	21.06.2020	30,28,500	10,09,500
304	UK	Nature and nurture in arsenic induced toxicity of Bihar, India	Professor Shatrunjay Kumar Singh,	Anugrah Narayan College, (A.N.College)		Patna	Bihar				31.05.2017	30.05.2020	62,82,808	28,52,200
305	UK	Facilitating the Intelligent Management of Chronic Wounds in Diabetic Patients: Developing Accessible Wound Monitoring Technologies	Dr. Ashish Mathur,	Amity University		Noida	Uttar Pradesh				10.06.2017	09.06.2020	25,78,800	8,59,600
306	UK	Engineering novel electronic and magnetic states in pyrochlore iridates - multifunctional materials for next generation devices	Prof. Subham Majumdar,	Indian Association for the Cultivation of Science		Kolkata	West Bengal				22.06.2017	21.06.2020	25,44,000/-	8,48,000
307	UK	Miniaturised particulate sensors for climate science	Prof. Maryam Shojaei Baghini	Indian Institute of Technology-Bombay	Powai	Mumbai	Maharashtra				28.06.2017	27.06.2020	37,88,500/-	15,28,000
308	UK	Investigating BRCAness in epithelial ovarian cancer (EOC) in India to develop stratified surgical and chemotherapy options	Dr Asima Mukhopadhyay	Tata Medical Centre and TTCRC, Kolkata		Kolkata	West Bengal				16.05.2017	15.05.2020	51,73,440	22,35,980
309	UK	Understanding Recent Extreme Events in India in the Context of Climate Change	Prof. Arpita Mondal	Indian Institute of Technology-Bombay	Powai	Mumbai	Maharashtra				24.05.2017	23.05.2020	30,71,560	11,56,000
310	UK	Investigating the regulation and manipulation of autophagy, mitophagy and xenophagy upon <i>ycobacterium tuberculosis</i> infection in human embryonic stem cell-derived macrophages.	Dr. Dhiraj Kumar	International Centre for Genetic Engineering and Biotechnology		New Delhi	Delhi				12.06.2017	11.06.2020	40,41,000	13,38,000
311	UK	Concentrated Photovoltaic (CPV) Assisted Tandem Artificial Photosynthetic (AP) Device for Effective Solar-to-Chemical Conversion	Dr. Bala Pesala	CSIR-GEERI Chennai		Chennai	Karnataka				21.06.2017	20.06.2020	32,37,000	10,79,000
312	UK	Data-Driven Intelligent Energy Management for Environmentally Sustainable Energy Access	Dr Naran M. Pindoriya,	Indian Institute of Technology Gandhinagar		Gandhinagar	Gujarat				25.05.2017	24.05.2020	30,77,000	10,70,000
313	UK	A Wearable Fetal Movement Monitor for Prenatal Care in Community Medicine Practice	Dr Suresh Devasahayam	Christian Medical College		Vellore	Tamil Nadu				28.09.2017	27.09.2020	42,09,000	14,03,000
314	UK	Bio-Climate Feedbacks of Melting Himalayan Ice	A.L. Ramanathan ,	Jawaharlal Nehru University		New Delhi	Delhi				25.05.2017	24.05.2020	24,21,000	8,07,000
315	UK	Understanding differences in the patterns of osteoarthritis in Indian and Western population: Impact on symptoms, treatment options and their outcome	Prof Rajesh Malhotra,	All India Institute of Medical Sciences		New Delhi	Delhi				16.05.2017	15.05.2020	90,72,200	36,30,240
316	UK	Advancing MEG based Brain-Computer Interface Supported Upper Limb Post-Stroke Rehabilitation	Professor Ashish Dutta	IIT Kanpur		Kanpur	Uttar Pradesh				18.07.2017	17.07.2020	40,06,600	14,82,000
317	UK	Estimating silicate weathering in a rising CO2 world from river water chemistry and lab-experiments: implications for future climate models	Dr.Ramananda Chakrabarti,	Indian Institute of Science Center for Earth Sciences		Karnataka	Karnataka				10.06.2017	09.06.2020	35,26,520	12,73,260
318	UK	Towards an integrated approach for assessing the impact of climatic stresses on agriculture and the exchange of greenhouse gas on the Indo-Gangetic Plain	Professor Sachchida Tripathi,	Indian Institute of Technology		Kanpur	Uttar Pradesh				07.07.2017	06.07.2020	63,96,000	21,32,000
319	UK	Ultrasound based assessment of tissue biomechanics to enhance the clinical management of foot related pathologies	Professor Muthaiah Rajappa	SASTRA University		Thanjavur	Tamil Nadu				07.02.2018	06.02.2021	16,35,000	5,45,000
320	UK	Learning Robotic Motor Skills, Visual Control and Perception for Warehouse Automation	Professor Laxmidhar Behera,	Indian Institute of Technology		Kanpur	Uttar Pradesh				04.08.2017	03.08.2020	61,46,750	38,18,250
321	UK	Investigation of neurodegeneration associated with defective DNA break repair	Professor K. Satyamoorthy,	Manipal University		Manipal	Karnataka				10.07.2017	09.07.2020	36,99,000	12,33,000

322	UK	Pursuit of Novel and Enhanced Optoelectronic Effects in Hybrid Perovskite Based Nanostructures	Prof. Satishchandra B. Ogale	Indian Institute of Science Education and Research		Pune	Maharashtra				16.05.2017	15.05.2020	52,41,360	20,32,240
323	UK	Role of Entropy and information encoding in Guided Self- Assembly of Materials	Srikanth Sastry,	Jawaharlal Nehru Centre for Advanced Scientific Research		Bangalore	Karnataka				01.06.2017	31.05.2020	55,37,760	18,28,760
324	UK	Non-parametric Smart Sensing Analytics based on Large Spectrum Data and Estimation of Channel Activity Statistics	Dr. Dhaval K. Patel	Ahmedabad University		Ahmedabad	Gujarat				22.05.2017	21.05.2020	29,68,500	8,89,500