

Department of Science & Technology
International Division

An India-Russia Joint call for proposals with the Russian Science Foundation (RSF) in the areas of (i) Smart transport and telecommunications, (ii) Smart healthcare and medicine, (iii) New Materials, (iv) Plant and Animal Bio-Technology, (v) Clean Energy, (vi) Artificial Intelligence and (vii) Safe Food was advertised in March 2021. In total, 293 common proposals were received against the joint call for which last date was 15th June 2021. Based on scientific merit, complementarities of the project objectives, scientific strengths of the project coordinators and national priorities, the Department of Science & Technology, India and Russian Science Foundation (RSF) have jointly decided to support following 26 proposals. Project coordinators are being informed separately to complete administrative formalities for release of DST grant.

Sl No	TPN No	Title	Indian Coordinator	Russian Coordinator
1	65068	Development of composite materials with low flammability based on epoxy resins and nanoscale organic-inorganic hardeners	Dr. Krishnamurthi Muralidharan, University of Hyderabad, Hyderabad	Dr. Chistyakov Evgeniy, Federal State Budgetary Educational Institution of Higher Education Mendeleev, University of Chemical Technology of Russia
2	65066	Structure and properties of additive manufactured intermetallic titanium alloys for heat resistant applications	Dr. Satyam Suwas, Indian Institute of Science, Bangalore	Dr. Popov Artemiy, Federal State Autonomous Educational Institution of Higher Education "Ural Federal University named after the First President of Russia B.N. Yeltsin
3	65030	Value-added Analysis of Histological Images using Artificial Intelligence	Dr. Amit Sethi, Indian Institute of Technology Bombay, Mumbai	Dr. Krylov Andrey, Federal State Budgetary Educational Institution of Higher Education, Lomonosov Moscow State University
4	65025	Classical and Quantum Error-Correcting Codes and Mathematics over Finite Fields for Smart Telecommunications	Dr. Anuradha Sharma, Indraprastha Institute of Information Technology, New Delhi	Dr. Koshevoy Gleb, Institute for Information Transmission Problems of the Russian Academy of Sciences (Kharkevich Institute)
5	65013	Prospective developments of fungal bioluminescence for improved bioassays and bioimaging application	Dr. Abhijit De, Advanced Centre for Treatment Research and Education In Cancer, Navi Mumbai,	Dr. Yampolsky Iliia, Shemyakin - Ovchinnikov Institute of Bioorganic Chemistry of the Russian Academy of Sciences

6	64989	Multiscale modeling of deformation behavior of carbon fiber-reinforced high-end thermoplastics	Dr. Ashish, Maharaja Agrasen Institute of Technology, Delhi	Dr. Stepashkin Andrey, National University of Science and Technology "MISiS"
7	64932	Investigation and Development of All-Phosphate Dual-Ion Solid-State Batteries	Dr. Raman Vedarajan, International Advanced Research Center For Powder Metallurgy and New Materials, Balapur	Dr. Kosova Nina, Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academy of Sciences
8	64897	Grain boundary engineering for austenitic stainless steel processed by selective laser melting	Dr. Sandip Ghosh Chowdhury, CSIR-National Metallurgical Laboratory, Jamshedpur	Dr. Belyakov Andrey, Federal State Autonomous Educational Institution of Higher Education "Belgorod National Research University"
9	64885	UNIFY (solUtions for clean energy iNtegration in power grids with Improved FlexibilitY)	Dr. Saikat Chakrabarti, Indian Institute of Technology Kanpur, Kanpur	Dr. Vorobev Petr, Autonomous Non-Profit Organization for Higher Education "Skolkovo Institute of Science and Technology"
10	64868	Search for novel topological materials- A joint theoretical and experimental investigation	Dr. K G Suresh, Indian Institute of Technology Bombay, Mumbai	Dr. Lukoyanov Alexey, M.N. Miheev Institute of Metal Physics of Ural Branch of Russian Academy of Sciences
11	64842	Studies on affine spaces and related objects through algebraic group actions and locally nilpotent derivations	Dr. Neena Gupta, Indian Statistical Institute, Kolkata, Kolkata	Dr. Arzhantsev Ivan, National Research University Higher School of Economics
12	64800	Development and study of methods for reliability enhancement of tethered high-altitude unmanned telecommunication platforms	Dr. Dharmaraja, Indian Institute of Technology Delhi, Hauz Khas, New Delhi	Dr. Vishnevsky Vladimir, Institute of control sciences of Russian academy of sciences
13	64769	Enhancing the accuracy of roboforming through prediction and compensation of elastic behavior using Artificial Intelligence techniques	Dr. Hariharan, Indian Institute of Technology Madras, Chennai	Dr. Klimchik Alexandr, Autonomous noncommercial organization of higher education "Innopolis University"
14	64742	Identification of immunogenic peptide for diagnosis of orthohantavirus infection	Dr. Manoj Baranwal, Thapar Institute of Engineering and Technology, Patiala	Dr. Rizvanov Albert, Kazan (Volga region) Federal University, Kazan University, KFU

15	64741	Development of low weight nanostructured functionally graded materials for high strength applications by hybrid asymmetric rolling and incremental forming methods	Dr. Puneet Tandon, PDPM, IIITDM Jabalpur, Jabalpur	Dr. Pesin Alexander, Nosov Magnitogorsk State Technical University
16	64738	Search for Novel Magnetic and Topological Materials	Dr. Tanusri Saha Dasgupta, S N Bose Centre For Basic Sciences, Kolkata	Dr. Morozov Igor, Federal State Budgetary Educational Institution of Higher Education Lomonosov Moscow State University
17	64700	Development of novel catalysts for valorization of biomass derived platform molecules with activation of CO and CO ₂	Dr. Bhalchandra Mahadeo Bhanage, Institute of Chemical Technology, Mumbai, Mumbai	Dr. Shifrina Zinaida, A.N. Nesmeyanov Institute of Organoelement Compounds of Russian Academy of Sciences
18	64636	Double perovskite oxides for thermoelectric power generation	Dr. Tanmoy Maiti, Indian Institute of Technology Kanpur, Kanpur	Dr. Eremina Rushana, Federal State Budgetary Institution of Science "Kazan Scientific Center of Russian Academy of Sciences"
19	64631	Study of photoluminescence, thermoluminescence and scintillation properties of Ln ₂ O ₃ nanoparticles and single crystals	Dr. Sanjay Dhoble, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	Dr. Naumov Nikolay, Nikolaev Institute of Inorganic Chemistry, Siberian Branch of the Russian Academy of Sciences
20	64612	Development of an interdisciplinary approach for the diagnosis and correction of the emotional sphere disorders of children using artificial intelligence methods a cross-cultural study	Dr. Ruban N, VIT Vellore	Dr. Lyakso Elena, Federal State Budgetary Educational Institution of Higher Education "Saint- Petersburg State University"
21	64605	Long Endurance Mars Flying Exploration Vehicle LEMFEV	Dr. Manoranjan Sinha, Indian Institute of Technology Kharagpur, Kharagpur	Dr. Strelets Dmitry, Moscow Aviation Institute (National Research University)
22	64580	Genetic determinants of chickpea domestication and post-domestication diversification.	Dr. Manish Roorkiwal, International Crop Research Institute for Semi Arid Tropics (Icrisat), Hyderabad	Dr. Samsonova Maria, Peter the Great St.Petersburg Polytechnic University

23	64559	Sustainable capturing of flue gases by an integrated phototrophic-heterotrophic microbial consortium coupled with bioelectricity and biofuel production	Dr. Vinod Kumar, Graphic Era (Deemed to be University), Dehradun	Dr. Vlaskin Mikhail, Joint Institute for High Temperatures of the Russian Academy of Sciences
24	64538	High-Power and Portable Sheet-Beam Driven Sub-THz Source for Wireless High-Data-Rate Communication	Dr. Niraj Kumar, Central Electronics Engineering Research Institute, Pilani	Dr. Ryskin Nikita, Kotelnikov Institute of Radioengineering and Electronics of Russian Academy of Sciences
25	64421	Enhancing the efficiency of clean energy production by intensifying anaerobic bioconversion of organic waste using solar energy	Dr. Vivekanand, Malaviya National Institute of Technology, Jaipur, Jaipur	Dr. Kovalev Andrey, Federal State Budgetary Scientific Institution "Federal Scientific Agroengineering Center VIM"
26	63538	Design, Development, Theoretical and Experimental Study of Smart Tribological Coatings for Space Applications.	Dr. Mohd Farooq Wani, National Institute of Technology Srinagar	Dr. Goryacheva Irina, Ishlinsky Institute for Problems in Mechanics of the Russian Academy of Sciences