

FY 2021-2022

S. No.	Date of sanction	DST File Number and Project Title	Principal Investigator details	Duration (year)
1	10.10.2021	DST/NM/NS/2020-340 Lattice dynamics calculations and density functional theory-driven phonon Boltzmann transport equation solver for nanoscale thermal transport properties prediction of strongly anharmonic semiconductors Application to type-I inorganic Clathrates	Prof. Ankit Jain IIT- Bombay	3
2	21.09.2021	DST/NM/TUE/QM-9/2019 Exploration of Topological Superconductivity and Majorana Fermions In Hetero structured Epitaxial Thin Films Of Topological Materials, Superconductors And Magnetic Insulators	Dr.Kartik V Raman TIFR- Hyderabad	4
3	7.10.2021	DST/NM/TUE/QM-3/2019 Quantum Metro-structures for spintronic development of strongly spin orbit coupled topological applications	Dr. Indranil Sarkar INST- Mohali	5
4	12.10.2021	DST/NM/TUE/QM-3/2019 Quantum Metro-structures for spintronic development of strongly spin orbit coupled topological applications	Prof. Anjan Barman SNBNCNS-Kolkata	5
5	22.03.2022	DST/NM/NT/2019/230 Novel Aluminium Nanostructure Based Electrodes for Battery and Supercapacitor Devices	Prof. Saroj Nayak, IIT Bhubaneswar	3
6	22.03.2022	DST/NM/NT/2020/307 Point of use sensors for rapid detection and differentiation of bacteria and virus in water and clinical samples	Prof. Soumya Mukerjee, IIT Bombay	3
			Dr. Chiranjay Mukhopadhyay, Manipal Academy Higher Education-Karnataka	
7	03.01.2022	DST/NM/NT/2020/322 Covalent Surface functionalized tunable 2D-MoS2 based highdensity sensor array for ultra-sensitive detection of vital bioanalytes in biological fluids	Dr. Sushmee Badhulika, IIT Hyderabad	3
8	28.02.2022	DST/NM/NT/2020/328 Gate All Around Nanosheet Steep-Slope Transistors for Sub-2nm Technology Nodes Physical Investigation, Compact Modeling and Device-Circuit Co-Optimization	Dr. Harshit Agarwal, IIT Jodhpur	3
9	23.03.2022	DST/NM/NS(NT)/2020/360 Nature Inspired Fractal patterned Micro-Nano-structured catalyst modified electrodes A novel approach for efficient hydrogen production by electrolysis of water	Dr. Archana Singh, CSIR-AMPRI, Bhopal Dr. Prasanna Gandhi. IIT-Bombay	3
10	06.01.2022	DST/NM/NT/2021/01 An integrated approach comprising electrochemical nano biosensor platform and Non Thermal Plasma irradiation for continuous monitoring and eliminator	Prof. Subramanyam Challapalli, IIT Hyderabad	3
11	22.03.2022	DST/NM/NT/2021/02 Centre of Excellence in Nano-Science and Quantum Systems A Bridge between Energy and Environment for Sustainable Development	Prof. Suresh Gosavi, Savitribai Phule University, Pune	3
			Dr. Bharat Kale, CMET Pune	

12	16.03.2022	DST/NM/NT/2021/291 Candidate Chikungunya virus vaccine to test efficacy of E2 protein loaded PLGA-PEG nanoparticle as a candidate vaccine in adult and aged mouse model	Dr. Yogesh Arvind Karpe, Agharkar Research Institute, Pune	3
13	06.10.2021	DST/NM/TBI-02/2020 NANOBIO INCUBATION CENTER (A TECHNOLOGY BUSINESS INCUBATOR AT INST, MOHALI)	Dr. Surajit Karmakar, INST Mohali	3
14	15.11.2021	DST/NM/TUE/EE-1/2021 or DST/NM/ThemeArea/EE-29/2021 Photochemical and Electrochemical Processes in Assembled Molecules and Nanomaterials: Implications Field and Coherence in Photovoltaics	Prof. K. George Thomas, IISER – Thiruvananthapuram Prof. G.U. Kulkarni, JNCASR Bangalore	4
15	21.12.2021	DST/NM/TUE/EE-2/2021 Organic-Inorganic Hybrid Nanomaterials for Non-Conventional Energy Technologies	Dr. P. Sujatha Devi, CSIR-NIIST, Thiruvananthapuram	5
16	13.12.2021	DST/NM/TUE/EE-3/2021 Nanostructured Materials for Next generation Energy Conversion and Storage Devices	Dr. Vanchiappan Aravindan, IISER – Tirupati Dr. A.S. Prakash, CECRI Karaikudi Dr. Yogesh Kumar Sharma, IIT Roorkee	5
17	28.02.2021	DST/NM/NT/2019/Agri-01 Nanoherbicide A controlled release formulation to improve rice production	Dr. Totan Adak, ICAR-NRRI, Cuttack Dr. Sanjeeb Kumar Sahoo, Institute of Life Sciences, Bhubaneswar	3
18	16.03.2022	DST/NM/NT/2019/Agri-02 Translation of Nano based quinapyramine sulphate formulation into product and its evaluation against <i>Trypanosoma evansi</i> in animals	Dr. Anju Manuja, ICAR-NRCE, Hisar	3
19	29.03.2022	DST/NM/NS/2018/204(G) Designing Advanced Functional Materials for Better Performing Photovoltaic Devices Through In -Silico Study.	Dr. Supriya Saha Department of Chemical Sciences North East Institute of Science and Technology-Pulbor, Jorhat, Assam	3
20	08.09.2021	DST/NM/NS/2019/324(G) New Facets in Perovskite Nanocrystals and their Heterostructures	Dr. Narayan Pradhan School of Materials Science Indian Association for The Cultivation of Science- Kolkata West Bengal	3
21	06.09.2021	DST/NM/NS/2021/405 Development of Novel Eye Drops of fixed dose combination for Effective Ocular Delivery	Dr. Neelesh Kumar Mehra and Dr. Dharmendra Khatri NIPER-Hyderabad	3
22	21.09.2021	DST/NM/NS-282/2019 Role of Nanoparticles shape in axonal entry and transport in different axonal sub-types for neural drug delivery	Dr. Sahadev Shankarappa & Prof Vinayan KP Amrita Institute of Medical Sciences, Kochi	3