

**"NATIONAL BOARD FOR HIGHER MATHEMATICS**

**For Review : RESEARCH PROJECT PROPOSALS - 2023(PART II - Prof. Mahuya Datta, Chair-Research Project Committee"**

Sr.	NBHM Ref No	Name, Affiliation & Address, Phone of PI/Applicant	Email ID/s	Title of the project	RPC decision
1	RP-2/2023(II)	Dr. Manil T. Mohan Assistant Professor Department of Mathematics Indian Institute of Technology Roorkee Roorkee, Uttarakhand – 247 667		Optimal control of deterministic and stochastic two- and three-dimensional convective Brinkman-Forchheimer equations	Accept
2	RP-20/2023(II)	Dr. Sangita Jha Co-PI-Dr. Saurabh Verma Assistant Professor Department of Mathematics NIT Rourkela Odisha- 769008 Phone: 0661 2462840	jhasa@nitrkl.ac.in sangitajha285@gmail.com	Analytical and approximational aspects of self-similar and self-affine fractals with overlapping in the heisenberg group.	Accept
3	RP-27/2023(II)	Dr. Suman Kumar Room No. 150, Department of Mathematics, Science Building, Indira Gandhi National Tribal University, Amarkantak, Anuppur - 484887, Madhya Pradesh, Email: suman@igntu.ac.in, ksumanrm@gmail.com	Mobile No.: 9576345734	Controllability of Nonlinear State-Dependent Nonlocal Delay Differential Systems	Accept
4	RP-29/2023(II)	PI-Dr. Ankur, Co-PI- Dr. Pratyush Kumar D-Block 2nd floor C-4 Department of Mathematics (School of Technology) Pandit Deendayal Energy University Gandhinagar, Gujarat-382426. ankur.Singh@sot.pdpu.ac.in ankur786ankur@gmail.com	Ph. No. 079-23275257 Mobile No. +918858618219	Maximum distance separable quantum error correcting codes	Accept
5	RP-33/2023(II)	Debajit Kalita Assistant Professor, Department of Mathematical Sciences Tezpur University	kdebahut@tezu.ernet.in	Strong Reciprocal Eigenvalue Property of Graphs	Accept
6	RP-64/2023(II)	Dr. Nithin Nagaraj Associate Professor Consciousness Studies Programme National Institute of Advanced Studies Indian Institute of Science Campus Bengaluru 560 012	Email: nithin@nias.res.in Phone: +91-9663861742	"Investigations into mathematical properties of Universal Orbits of 1D dynamical systems and their applications to brain-inspired machine learning"	Accept
7	RP-68/2023(II)	Dr. Surinder Kaur, Department of Mathematics, SRM University AP, Neerukonda, Mangalagiri, Andhra Pradesh, India-522502.	Phone:9888976998 Email: ska	On the group rings, their unit groups and some related questions.	Accept
8	RP-77/2023(II)	Dr. Bhargav Kumar Kakumani Co-investigator: Prof. Suman Kumar Tumuluri Birla Institute of Technology and Science - Pilani, Hyderabad Campus.	Phone: +91-9290146768 Email: bhargav@hyderabad.bits-pilani.ac.in	Study of Optimal control and its Numerics for the Renewal Equation with Periodic Data	Accept
9	RP-88/2023(II)	Dr. Vivek Sadhu AB1-310 (infinity Building) Department of Mathematics IISER Bhopal Indore Bypass Road Bhauri Bhopal-462066, Madhya Pradesh	Phone: 0755-2691251 Email: vsadhu@iiserb.ac.in., viveksadhu@gmail.com	K-theory in the Non-Noetherian world.	Accept

10	RP-94/2023(II)	Dr. Umamaheswaran Arunachalam Co-PI Prof. Srikanth Raghavendran Assistant Professor, Department of Mathematics, School of Arts, Science, Humanities and Education (SASHE), ASTRA Deemed to be University, Thirumalaisamudram, Thanjavur, Tamil Nadu.	Mobile Number : +91 8523915395 umamaheswaran@maths.sast ra.edu, ruthreswaran@gmail.com	Homological Techniques in Algebra and Representation Theory with the connection between Cluster algebra and Number theory	Accept
11	RP-98/2023(II)	Dr. Bilal Ahmad Para Dr.Bilal Ahmad Chat Department of Mathematical Sciences, IUST Kashmir, 192122	Phone: +91-9797056761 Email: parabilal@gmail.com/ para.bilal@iust.ac.in	"Development of Some Novel Count Regression Models for Patient Outcomes"	Accept
12	RP-115/2023(II)	Dr.G.M. Vijayalakshmi Co-investigator : Dr. J. NARESH KUMAR Associate Professor, Department of Mathematics Veltech Dr.RR & Dr.SR University 400 feet Outer Ring Road, Avadi, Chennai-600 062, Tamil Nadu, India.	Phone 9994619272   9940024007 Email :drvijayalakshmi@veltech.ed u.in, drd@veltech.edu.in	Development and Analysis of fractional derivative model on pandemic after effects – A Novel Approach	Accept
13	RP-116/2023(II)	Dr. Shanmuga Priya, Co-investigator: Dr. D.Kanagajothi M.Sc., M.Phil., Ph.D. Associate Professor, Department of Mathematics, Vel Tech Rangarajan	Phone : 6380577275  9940024007 Email :shanmugapriya@veltech.edu .in  drd@veltech.edu.in	A Strength of Connectedness in a Fuzzy Graph with applications in transmissions for various types of signal systems.	Accept
14	RP-119/2023(II)	Dr. D. Selvakumar Co-investigator: Dr. S. Karthikeyan PSG Institute of Technology and Applied Research, Coimbatore	Phone: 999 437 22 44 Email: sivaselva.ec@gmail.com, selvakumar@psgitech.ac.in	Quantum Graph Computing: Unveiling the Power of Interdisciplinary Synergy	Accept
15	RP-141/2023(II)	Dr. Abdul Gaffar Khan Co-PI- Tarun Kumar Das Assistant Professor Kirori Mal College University of Delhi, India.	email: gaaffarkhan18@gmail.com	Topological Stability of Compactly Generated Group Actions from Pointwise Viewpoint	Accept