F.No.13-52/2026-ICC
Government of India
Department of Higher Education
International Cooperation Cell
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Kartavya Bhawan 2, New Delhi
Dated the 13th April, 2026

OFFICE MEMORANDUM

Subject: Minutes of the Apex Committee Meeting of SPARC.

The undersigned is directed to forward herewith a copy of the Record of Discussion of the Apex Committee Meeting of SPARC held on 25th March, 2026 at 12:00 P.M in Hybrid mode under the Chairmanship of Secretary, Department of Higher Education (HE) for information and necessary action.

2. This issues with the approval of Secretary, HE.

13/4/2026

(Rajeev Kumar Sinha)
Under Secretary (ICC)
Email: rajeevk.sinha@nic.in

To:

1. Shri Vikram Misri, Foreign Secretary (psfs@mea.gov.in)
2. Shri Vineet Joshi, Secretary (HE), Ministry of Education, Chairman
3. Prof. Abhay Karandikar, Secretary, DST (dstsec@nic.in)
4. Dr Rajesh S Gokhale, Secretary, DBT (secy@dbt.nic.in)
5. Office of Chairman UGC (cm.ugc@nic.in)
6. Dr. K.M. Praphullachandra Sharma, Joint Secretary (ICC), Ministry of Education, Member Secretary
7. Prof. Yogesh Singh, Chairman AICTE (chairman@aicte-india.org)
8. Ms. Saumya Gupta, Joint Secretary (TE), MoE
9. Shri Sanjog Kapoor, Joint Secretary & Financial Advisor, MoE (jsfa-moe@gov.in)
10. Prof. Suman Chakraborty, Director, IIT Kharagpur (director@iitkgp.ac.in)
11. Prof. Rabibrata Mukherjee, National Coordinator (SPARC), IIT Kharagpur (rabibrata@che.iitkgp.ac.in)
12. Prof. Indranil Manna, Professor, IIT Kharagpur (on lien as VC, BIT, Mesra) (vc@bitmesra.ac.in)
13. Prof. Virander S. Chauhan (viranderschauhan@gmail.com)
14. Dr. S. Vaidhyasubramaniam, Dean, Planning & Development, SASTRA University (vaidhya@sastra.edu)

Minutes of the Apex Committee Meeting of SPARC

The Apex Committee meeting for the Scheme for Promotion of Academic and Research Collaboration (SPARC) was held on 25th March, 2026 at 12:00 PM in hybrid mode under the Chairmanship of Secretary (HE).

2. At the outset, Secretary (HE) welcomed all participants (list enclosed at **Annexure-I**). Thereafter, Joint Secretary (ICC) apprised the Committee of the agenda items, as under:

i. Proposals submitted under SPARC second round of calls for current financial year 2025-26: 81 projects amounting to Rs. 75.12 crores are placed for consideration of the Apex Committee.
ii. Any other item, with permission of the chair.

3. During the meeting, the following decisions were taken:

i. **SPARC Phase IV B (FY 2025-26):** A Total of 81 SPARC projects (totalling Rs. 75.12 Crores) have been approved for funding. [List attached] *
*[**Note:** Budget Outlay for SPARC as per SFC for FY 2021-26 is Rs 425.2 Crores. Funds currently available for sanctioning as per SFC is* Rs 75.64 Crores. This approved list will also be vetted by MEA for their comments.
ii. Extension of the four ongoing Phase II projects (based on request from the Principal Investigators (PIs) as their projects started lately) [List attached] by three months beyond 31st March, 2026.
iii. Proposal from National Coordinator (SPARC), Prof. Rabibrata Mukherjee and supported by MEA representative, Shri Dhavala Vijaya Raghava, OSD [ED] included prior vetting of projects identified by the Thematic Review Committee, by Ministry of External Affairs. The vetted projects would then be put up for the approval of the APEX Committee of SPARC.
iv. To coordinate with MEA for an interactive session with Indian Missions abroad, as well as local Missions in in New Delhi on easing of visa facilitation for research under SPARC.
v. To organize outreach sessions with Central Universities, IISERs, NITs and Private Institutions in coordination with UGC And AICTE for wider knowledge dissemination.
vi. To host a SPARC-Industry/start-up conclave inviting relevant Industry representatives along with prominent faculties in the 12 identified fields of SPARC to deliberate upon how to make Industry Academia collaboration in the field of Joint Research Projects of national and global relevance under SPARC.
vii. Prof. Indranil Manna, Vice-chancellor of the Birla Institute of Technology, Mesra suggested to consider foreign faculties coming under SPARC as adjunct faculty. Further, it was suggested that foreign students participating in SPARC Joint Research Projects may be appropriately reflected on HEI websites. To this Chair responded to consider positively as it would be beneficial in QS ranking.
viii. Dr. S. Vaidhyasubramaniam, Dean - Planning and Development, SASTRA University asked whether joint research projects with China may be considered, to which the JS(ICC) mentioned that, given the sensitivities around China, comments of MEA will be sought on the said matter.
ix. Dr. S. Vaidhyasubramaniam further pointed out that out of 81 projects recommended there was no project under the theme Smart Cities & Mobility and Disaster Management & Resilient Infrastructure, to which National Coordinator

(SPARC) informed that currently proposals received under these two themes are under evaluation and will be considered in the next phase.

x. The Apex Committee noted the launch of the "SPARC Alumni" Program by IIT Kharagpur. To which, Dr. S. Vaidhyasubramaniam suggested to come up with creative audio-visual content of student experiences to enhance outreach and awareness.

xi. As advised by Sh Sanjog Kapoor, JS&FA, of MoE proposal for extension of the SPARC Scheme by six months i.e. September,2026 has been sent to IFD Division for approval of the Ministry of Finance.

xii. National Coordinator (SPARC) suggested that SPARC-supported research engagements may be explored for conversion into Joint Degree programmes, wherever Institutional MoUs exist, to which Prof. Indranil Manna also seconded.

xiii. IIT Kharagpur to advise all Principal Investigators (PIs) of the projects to apply for physical/ conference visa at the concerned Embassy of India rather then e-visa.

xiv. Chair suggested IIT Kharagpur to catalogue the IPRs and start-ups coming out of SPARC International component, including how they fit into Industrial Value Chain.

The meeting ended with thanks to the chair and participants.

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Annexure-I

List of Participants

S.No.	Participants
1.	Dr Vineet Joshi, Secretary (HE), Ministry of Education, Chairman
2.	Dr K.M. Praphullachandra Sharma, Joint Secretary (ICC), Ministry of Education, Member Secretary
3.	Shri Sanjog Kapoor, JS & FA, Ministry of Education, Member
4.	Shri Dhavala Vijaya Raghava, OSD [ED], Nominee of Secretary MEA, Member
5.	Dr. Umesh Kumar Sharma, Head, S&T Capacity Building (S&TCB) Division, Nominee of Secretary DST, Member
6.	Dr. Garima Gupta, Scientist-'F', Nominee of Secretary DBT, Member
7.	Dr. N.H. Siddalinga Swamy, Adviser, AICTE, Nominee of Chairman, AICTE
8.	Ms. Richa Verma, Director (ICC), Ministry of Education
9.	Shri Mukesh Kumar, Director (IFD), Ministry of Education
10.	Dr Archana Thakur, Joint Secretary (IC), Nominee of Chairman UGC, Member
11.	Prof. Indranil Manna, Vice-chancellor of the Birla Institute of Technology, Mesra, Nominated Member (Reputed Academician from Public Sector)
12.	Prof. Virander S. Chauhan, Arturo Falaschi Emeritus Scientist, ICGEB. Distinguished Visiting Professor, University of Delhi, Nominated Member (Reputed Academician from Public Sector)
13.	Dr. S. Vaidhyasubramaniam, Dean - Planning and Development, SASTRA University, Thanjavur, Nominated Member (Reputed Academician from Private Sector)
14.	Prof. Rabibrata Mukherjee, National Coordinator (SPARC), IIT Kharagpur (Special Invitee)
15.	Shri N.S Bisht, DS (IFD), Ministry of Education
16.	Shri Ashish Kumar Mishra, Section Officer (IFD), Ministry of Education
17.	Shri Atul Juyal, Liaison Officer (SPARC), Department of Higher Education, Ministry of Education.
18.	Ms. Arati Verma, Assistant Section Officer, Department of Higher Education, Ministry of Education.

S.No.	Proposal ID	Title	Thrust Area	Subdomain	Submitted By	Indian Institute	International PI	International Institute	Country	SPARC Budget (in Lakhs)
1	2944	Design and development of the hybrid microwave assisted casting process for stealth applications	Innovation-Driven	Design Innovation	Dr. Harpreet Singh	**Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design and Manufacturing (IITDM), Jabalpur**	Dr. Sumsun Naher	CITY UNIVERSITY OF LONDON	United Kingdom	50.4
2	2527	Modulation of the differentiation, sustenance and endurance of memory T cells by gut microbiota	Fundamental Research	Basic Sciences - Physical Sc., Chemical Sc., Biological Sc.	Prof. Javed N Agrewala	**Indian Institute of Technology Ropar**	Prof. Rafi Ahmed	EMORY UNIVERSITY	United States of America	99
3	3014	Biodiversity Documentation and Museum Repository Establishment in the Indo-Burma Biodiversity Hotspot region of Mizoram	Humanities and Social Science	GLAM, "Galleries, Libraries, Archives and Museums"	Dr. John Zothanzama	**Mizoram University**	Prof. Alfried P Vogler	IMPERIAL COLLEGE LONDON	United Kingdom	64.03
4	2544	Using instrumented gait analysis to assess complex peri-acetabular and distal femur reconstructions	Convergence	Affordable Health Care	Dr. Venkatesan Sampath Kumar	**All India Institute of Medical Sciences New Delhi**	Prof. Duncan Whitwell	UNIVERSITY OF OXFORD	United Kingdom	74.4

Sl. No.	PROPOSAL ID	THEME	Project Title	INDIAN PI NAME	INDIAN PI INSTITUTE	INTERNATIONAL PI NAME	INTERNATIONAL PI INSTITUTE	INTERNATIONAL PI COUNTRY	Amount (INR)
1	P4308	Energy, Sustainability and Climate Change	Multi-scale modeling approach combining theory and experiments to develop electrochemical urea synthesis technology via C-N coupling	Uttam Kumar Ghorai	Ramakrishna Mission Vidyamandira	Chandra Veer Singh	University of Toronto	Canada	9667000
2	P4281	Healthcare & MedTech	Establishing a Multi-Disciplinary Platform for Precision Oncology in Indian Thyroid Cancer Using 3D Organoids with phytochemical combination therapy, Body Fluid-Based Proteomic Profiling, and Radiomic AI Analytics	Devipriya Nagarajan	SASTRA Deemed University	Muthu Thiruvengadam	Konkuk University	South Korea	10876000
3	P4178	Healthcare & MedTech	Foundational AI Model for EEG Biomedical Applications on Reconfigurable FPGA Platforms	Tharun Kumar Reddy Bollu	Indian Institute of technology Roorkee	Seok-Bum Ko	University of Saskatchewan, Canada	Canada	8570400
4	P4191	Advanced Computing (Supercomputing, AI, Quantum Computing)	Experimental and Computational Investigations of Dual-mode Scramjet Combustion with Physics-Informed neural ODEs	Shubhangi Shamsundar Bansude	Indian Institute of Technology Gandhinagar	Venkateswaran Narayanaswamy	Professor	United States	6086400
5	P4239	Advanced Computing (Supercomputing, AI, Quantum Computing)	RAISE: Robust and Resilient AI through Self-Duplication for Learning in Decentralized Networked Systems	Parimal Parag	Indian Institute of Science	Salim Yaqoub El Rouayheb	Rutgers University	United States	6326400
6	P4249	Advanced Computing (Supercomputing, AI, Quantum Computing)	TwinEdgeGrid: Edge Intelligence-Enabled Digital Twin Systems for Ubiquitous Meter Data Management in IoT-Enabled Smart Grid	Ayan Mondal	Indian Institute of Technology Indore	Gagangeet Aujla	Durham University	United Kingdom	9240000
7	P4264	Advanced Computing (Supercomputing, AI, Quantum Computing)	Rethinking Explainability and Safety in Modern Artificial Intelligence	Sriparna Saha	Indian Institute of Technology Patna	Chirag Agarwal	University of Virginia, USA	United States	6420600
8	P4340	Advanced Computing (Supercomputing, AI, Quantum Computing)	Fair and Explainable AI Frameworks for Graph Mining (FairGM)	Gaurav Dixit	Indian Institute of Technology Roorkee	Mykola Pechenizkiy	Eindhoven University of Technology	Netherlands	7731600
9	P4343	Advanced Computing (Supercomputing, AI, Quantum Computing)	Quantum metrology for quantum computing	Devendra Kumar Mishra	Banaras Hindu University, Varanasi, India	Matteo G A Paris	Department of Physics, University of Milano, I-20133 Milano, Italy	Italy	10089500
10	P4372	Advanced Computing (Supercomputing, AI, Quantum Computing)	Simulating Nature in Exa-Scale: GPU-Accelerated Fluid-Structure Interaction Modelling of Bio-Inspired Drone Swarms	Somnath Roy	Indian Institute of Technology Kharagpur	Chandan Bose	University of Birmingham	United Kingdom	9269000
11	P4129	Advanced Computing (Supercomputing, AI, Quantum Computing)	AI enabled High-Throughput Phenotyping for Accelerated Breeding in Wheat and Rice	Puja Srivastava	Punjab Agricultural University	Dinesh Kumar Saini	Texas Tech University, Tx, USA	United States	6682800

12	P4185	Advanced Materials, Rare-earth & Critical Minerals	Atomic-Level Design Strategies for High-Performance Cu Nanocluster Photocatalysts	Indranath Chakraborty	IIT Kharagpur	Yuichi Negishi	Tohoku University	Japan	10103000
13	P4289	Advanced Materials, Rare-earth & Critical Minerals	Extraction of critical minerals from Phosphogypsum and residue valorization: A circular economy approach.	Sarat Kumar Das	IIT (ISM) Dhanbad	Abhijit Mukherjee	Curtin University	Australia	7333800
14	P4304	Advanced Materials, Rare-earth & Critical Minerals	Generative Design and Multi-Scale Optimization of Metamaterials for Broadband Vibration Attenuation	Atul Jain	Indian Institute of Technology Kharagpur	Sondipon Adhikari	University of Glasgow, UK	United Kingdom	7027200
15	P4306	Advanced Materials, Rare-earth & Critical Minerals	Ultrafast and Functional Metasurfaces for Disruptive Sensing and Advanced Imaging Technologies	Varun Raghunathan	Indian Institute of Science	Yuri Kivshar	Australian National University	Australia	7640400
16	P4381	Advanced Materials, Rare-earth & Critical Minerals	Extraction of rare-earth and critical minerals from mine water by advanced low-energy driven porous photocatalyst	Abha Misra	Indian Institute of Science	Yogendra Kumar Mishra	University of Southern Denmark	Denmark	7191600
17	P4161	Agri & Food Technologies	CRISPR-Cas Mediated Multiplex Gene Editing to Enhance Lodging Tolerance and Oil Accumulation in Indian Mustard	Subramanian Sankaranarayanan	Indian Institute of Technology Gandhinagar	Marcus Samuel	University of Calgary	Canada	9753000
18	P4214	Agri & Food Technologies	Engineering Cross Kingdom Resilience: Multi-Omics Dissection of SynCom Mediated Salinity Tolerance Across Plant Families	Shilpi Sharma	Indian Institute of Technology Delhi	Lori Hoagland	Purdue University	United States	7071600
19	P4367	Agri & Food Technologies	AI-Enabled Phenomics and Genomic Prediction for Climate-Resilient Crop Improvement	Rupesh Deshmukh	Central University of Haryana	Sigfredo Fuentes	University of Melbourne	Australia	9053000
20	P4383	Agri & Food Technologies	Designing Climate-Smart, Drought-Tolerant Chickpea Varieties	Rakesh K. Srivastava	ICRISAT	Vijaya Singh	The University of Queensland	Australia	10894000
21	P4211	Blue Economy	Interaction of Microplastics and Forever Chemicals in the Marine Environment: Mechanisms, Environmental Impacts, Analytical Challenges, and Implications for Advanced Oxidation Processes.	Manoj P Rayaroth	Gandhi Institute of Technology & Management (GITAM)	Sebastian Suvae	Department of Analytical Chemistry, University of Montreal	Canada	9916000
22	P4382	Blue Economy	Digital-Twin-Enabled Blueâ€“Green Biorefinery: AI-Driven Discovery and Engineering of Halotolerant Enzymes for Sustainable Valorization of Alginate and Lignocellulosic Biomass into Prebiotics, Bioplastics, and Advanced Biomaterials	Rama Raju B	National Institute of Technology Warangal	Anuj Kumar	Engineering School of Lorena (EEL), University of SÃ£o Paulo, Brazil	Brazil	11017000

23	P4146	Energy, Sustainability and Climate Change	Quantifying Plastics Losses and their Ecological Risks in India	Vinay Yadav	IIT Kharagpur	Xunchang Fei	Nanyang Technological University	Singapore	**8239200**
24	P4157	Energy, Sustainability and Climate Change	Pore-engineered activated carbon from Indian biomass towards transformative thermal energy applications	Sourav Mitra	Indian Institute of Technology, Kharagpur	Bidyut Baran Saha	International Institute for Carbon-Neutral Energy Research, Kyushu University	Japan	**8906000**
25	P4182	Energy, Sustainability and Climate Change	An Integrated Catalytic Adsorption and Bioprocess System for the Treatment and Mineralization of Pesticides and VOCs from Agricultural Runoff	Bhavana Gupta	UPES	Ki-Hyun Kim	Hanyang University	South Korea	**9906000**
26	P4198	Energy, Sustainability and Climate Change	Development of Compact Self-Decarbonizing Combustor for Distributed Power Generation	Achintya Mukhopadhyay	Jadavpur University	Prof. Swetaprovo Chaudhuri	University of Toronto	Canada	**8755000**
27	P4215	Energy, Sustainability and Climate Change	UR2-BA: Ultraâ€'Rapid Reactivity Screening of Indian Biomass Ashes Within 15 Minutes	Piyush Chaunsali	Indian Institute of Technology Madras	Nishant Garg	University of Illinois at Urbana-Champaign	United States	**9716000**
28	P4222	Energy, Sustainability and Climate Change	Exploring the feasibility of stimulated hydrogen production in altered and fractured ultramafic rocks	Achyut Mishra	IIT Gandhinagar	Lin Ma	University of Manchester	United Kingdom	**10066000**
29	P4236	Energy, Sustainability and Climate Change	Integrated Smart Energy Systems for Sustainability and Climate Resilience	Altaf Q. H. Badar	National Institute of Technology Warangal	Jahangir Hossain	Professor, School of Electrical and Data Engineering, University of Technology Sydney (UTS), Sydney, Australia	Australia	**8211600**
30	P4244	Energy, Sustainability and Climate Change	Enabling zero-emissions mobility solutions	Asish Kumar Sarangi	IIT Bombay	Gordon McTaggart-Cowan	Simon Fraser University	Canada	**10228000**
31	P4254	Energy, Sustainability and Climate Change	Smart Sanitation and Digital Water Nexus for Sustainable Sugarcane Production in Indiaâ€™s Sugar Belt	Basant Yadav	Indian Institute of Technology Roorkee	Luiza C. Campos	University College London	United Kingdom	**10638000**
32	P4262	Energy, Sustainability and Climate Change	Reliability Conscious Design of Power Electronic Converter and AI driven Energy Management Strategy for Resilient DC Microgrid	Avneet Kumar	Indian Institute of Technology, Patna	Akshay Kumar Rathore	National University of Singapore, Singapore	Singapore	**9806000**
33	P4267	Energy, Sustainability and Climate Change	Studies on biofuel reforming for hydrogen production	Krishna Sesha Giri	Indian Institute of Technology Palakkad	A.V. (Anatoli V) Mokhov	Groningen University	Netherlands	**10672000**
34	P4276	Energy, Sustainability and Climate Change	Development of Machine Learning-Based Pavement Performance Prediction Models Integrating Indian Road Condition and Climate Data	Smruti S. Mohapatra	IIT(ISM) Dhanbad	Anand Sreeram	University of Nottingham	United Kingdom	**7598400**
35	P4290	Energy, Sustainability and Climate Change	Thermo-Mechanical Analysis and Experimental Validation of Lithium-Ion Battery Modules for Enhanced Safety and Performance	Rajan Kumar	Dr B R Ambedkar National Institute of Technology Jalandhar	Arunachala Mada Kannan	Arizona State University	United States	**9242000**

36	P4292	Energy, Sustainability and Climate Change	Advancing Safe Water Reuse: Climate-Resilient and Energy-Efficient Treatment Solutions	Arya Vijayanandan	Indian Institute of Technology Delhi	Shane Snyder	Georgia Institute of Technology (Georgia Tech)	United States	9554000
37	P4325	Energy, Sustainability and Climate Change	Design and Control of a VSG-Based Green Hydrogen Integrated Renewable Energy System with Islanding and Re-synchronization Capability	Shailendra Kumar	IIT Bhilai	Sukumar Kamalasadan	The University of North Carolina at Charlotte	United States	9316000
38	P4328	Energy, Sustainability and Climate Change	Innovative Aerogels for Next-Gen Energy Management and Aerospace Systems (AERONEXT)	Pradip Kumar Maji	IIT Roorkee	Ameya Rege	University of Twente	Netherlands	9366000
39	P4345	Energy, Sustainability and Climate Change	Turbulent Iron Combustion and Radiative Modeling for Circular Metal-Fuel Energy Systems	Anirudha Ambekar	Indian Institute of Technology Goa	XiaoCheng Mi	Eindhoven University of Technology, The Netherlands	Netherlands	9166000
40	P4361	Energy, Sustainability and Climate Change	Techno-economic feasibility of novel Batch- RO technology to solve drinking water scarcity at different scales, from household to remote and rural community level applications	Anurag Mudgal	Pandit Deendayal Energy University, Gujarat	Prasanta Dey	Aston University, Birmingham, UK	United Kingdom	9706000
41	P4078	Energy, Sustainability and Climate Change	Renewable Energy Integration with Electric Vehicle Technology for Energy Sustainability, Climate Change and Smart Mobility	Hari Om Bansal	Birla Institute of Technology and Science, Pilani, Pilani Campus	Rajvikram Madurai Elavarasan	Griffith University, Australia	Australia	7934400
42	P4127	Energy, Sustainability and Climate Change	SMART-DWPT for Viksit Bharat: Scalable Modular Adaptive Roadway Topology Dynamic Wireless Power Transfer for New Indian Urban E-Mobility	Bharatiraja Chokkalingam	SRM Institute of Science and Technology Kattankulathur	Udaya Madawala	University of Auckland, New Zealand	New Zealand	10786000
43	P4149	Healthcare & MedTech	Spatial and Cell Surface Proteomics for Novel Target Discovery and Biomarker Translation in Brain Tumors	Sanjeeva Srivastava	Indian Institute of Technology Bombay	Arun Wiita	University of California San Francisco	United States	8580000
44	P4175	Healthcare & MedTech	AI-Driven Computational Fluid Dynamics (CFD) Framework for Non-Invasive and patient-specific Hemodynamic Assessment of Cardiovascular Disease Diagnostics	Chandrakant Sonawane	Symbiosis Institute of Technology Pune	Huidan (Whitney) Yu	Purdue University, Indianapolis, Indiana, IN 46202, USA	United States	8539200
45	P4179	Healthcare & MedTech	Next Generation Wound Diagnostic and Care	Durba Pal	Indian Institute of Technology Ropar	Chandan K Sen	University of Pittsburgh	United States	10590000
46	P4186	Healthcare & MedTech	Integrated Computational, Experimental & AI Framework for Predicting Stroke Risk from Carotid Geometry Variations	S M Abdul Khader	Manipal Academy of Higher Education	Dr. Masaaki Tamagawa	Kyushu Institute of Technology	Japan	10030000
47	P4189	Healthcare & MedTech	Single molecule sensing using 2D nanopores	Manoj Varma	Indian Institute of Science (IISc)	Ashok Keerthi	The University of Manchester, Manchester, UK	United Kingdom	13972000

48	P4194	Healthcare & MedTech	Multimodal Imaging and Machine Learning enabled Minimally Invasive Liquid Biopsy for Early Multi-Cancer Diagnosis	Earu Banoth	National Institute of Technology, Rourkela	Dan V Nicolau	Mc Gill University	Canada	**10414000**
49	P4197	Healthcare & MedTech	Deciphering inflammasome activation pathways and microRNA regulatory networks in Leptospirosis through CRISPR/Cas9-engineered cell line and mouse models	Krishna Kumar B	Nitte (Deemed to be University)	Prof Dr Si Ming Man	Division of Immunology and Infectious Diseases, The John Curtin School of Medical Research, The Australian National University	Australia	**10580000**
50	P4199	Healthcare & MedTech	Development of Small Molecule Inhibitors Aided with Machine Learning against Ribosomal Methyltransferases Involved in Antibiotic Resistance	Ruchi Anand	IIT Bombay	Sriram Subramaniam	University of British Columbia	Canada	**10862000**
51	P4212	Healthcare & MedTech	Electro-Thermocapillary Driven Droplet Coalescence: A Pathway Toward Next-Generation Healthcare Microfluidic Devices	Sukumar Pati	National Institute of Technology Silchar	Ilia V. Roisman	Technical University of Darmstadt, Peter-GrÃ¼nberg-StraÃŸe 10, 64287 Darmstadt, Germany	Germany	**10103000**
52	P4256	Healthcare & MedTech	Artificial Cilia Patching in Human Lungs: A Combined Numericalâ€“Experimental Approach for Restoring Mucociliary Clearance	Mainak Basu	National Institute of Technology Raipur	Suvash C Saha	University of Technology Sydney	Australia	**10029000**
53	P4265	Healthcare & MedTech	Design and Development of Artificial Intelligence-Driven Microwave Imaging System for Brain Stroke Diagnosis	Aijaz Mehdi Zaidi	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar	Ke Wu	Polytechnique Montreal (University of Montreal), Montreal, Canada	Canada	**9629000**
54	P4275	Healthcare & MedTech	Development of an Edge AI Multilingual Brain-to-Speech Communication System Integrating Transformer-Based EEG Decoding and Federated Learning for Neurodisabled Patients	T Kishore Kumar	National Institute of Technology Warangal	GOPIKRISHNA DESHPANDE	Auburn University, USA	United States	**9844000**
55	P4303	Healthcare & MedTech	Roles of collagen waviness and crosslinks in the nonlinear mechanics of soft fibrous tissues	Namrata Gundiah	Indian Institute of Science	Gerhard A. Holzapfel	Graz University of Technology	Austria	**7448400**
56	P4305	Healthcare & MedTech	Integrating Structural, Computational, and Chemical Approaches to Develop Anti-Obesity Therapeutics from Pongamol: Formulation and Pharmacological Evaluation in Rodent and Zebrafish Models	Ashoke Sharon	Birla Institute of Technology	Gavin Stewart Dawe	National University of Singapore	Singapore	**9392000**

57	P4316	Healthcare & MedTech	Early Detection of Cervical Cancer by Deep Learning Enhanced Fluorescence Lifetime Imaging	AJEETKUMAR PATIL	Manipal Academy of Higher Education (MAHE), Manipal, Karnataka, India.	Ammasi Periasamy	Center Director, and Founder of the Keck Center for Cellular Imaging, University of Virginia, Charlottesville, VA 22904	United States	8690400
58	P4362	Healthcare & MedTech	FPGA-Based AI-Enhanced Cryogenic FET Biosensors for Early Detection of Neurological Disorders	PRABHAT SINGH	Indian Institute of Information Technology Senapati, Manipur, India - 795002	Dongshik KANG	University of the Ryukyus, Nishihara, Okinawa, Japan	Japan	9069000
59	P4371	Healthcare & MedTech	Secure Agro-Healthcare Federated Learning Solutions for Malnutrition Mitigation	Rashmi Ranjan Rout	National Institute of Technology Warangal	Sajal K Das	Missouri University of Science and Technology	United States	9029000
60	P4379	Healthcare & MedTech	Synthetic population and microsimulations in healthcare policy making, from epidemic preparedness to vaccination planning - A Pilot Study for India (West Bengal and Odisha) & Germany (Saxony-Anhalt)	BIVAS MITRA	Indian Institute of Technology, Kharagpur	Prof. Dr. Rafael Mikolajczyk	Martin Luther University Halle-Wittenberg, Germany	Germany	8028000
61	P4196	Manufacturing & Industry 4.0	Consortium for Innovations in Electrophysical-Chemical Manufacturing Technology	Soham Mujumdar	Indian Institute of Technology Bombay	Krishna Kumar Saxena	KU Leuven	Belgium	10483000
62	P4228	Manufacturing & Industry 4.0	Multi-Agent-based Digital Twins for Networked Cyber-Physical Systems towards Intelligent Manufacturing.	Dipayan Guha	Motilal Nehru National Institute of Technology Allahabad	Hamid Reza Karimi	Politecnico di Milano, Italy	Italy	9703000
63	P4158	Next-Gen Communications	AI-Driven Security and Resilience for the Cloud-Edge Continuum in Next-Generation IoT (AIRSEN-IoT)	Neetesh Kumar	IIT Roorkee	Dushantha Nalin Jayakody	Nova University Lisbon, Portugal	Portugal	8986000
64	P4216	Next-Gen Communications	Energy-Efficient and Intelligent-Environment PASS Assisted NOMA for Last Meter Ultradense Connectivity	Vimal Bhatia	IIT Indore	Zhiguo Ding	The University of Manchester	United Kingdom	6458400
65	P4355	Next-Gen Communications	MUSiC-6G: Multimodal Unified Sensing and Communication in 6G	Lakshmi Narasimhan	IIT Madras	Nandana Rajatheva	University of Oulu	Finland	7687200
66	P4142	Semiconductors	Multi-Scale Modeling and Experimental Realization of Ferroelectric HfOâ„‚ Memory Cells for High-Density FeRAM	Tarun Kumar Agarwal	IIT Gandhinagar	Sourav De	National Tsing Hua University	Taiwan	8539200
67	P4153	Semiconductors	PQ-Si: Pre-Silicon Verification of Machine Learning Accelerator Leakage using PAC-QED Integration	Debdeep Mukhopadhyay	Indian Institute of Technology Kharagpur	Subhasish Mitra	Stanford University	United States	10390000
68	P4357	Semiconductors	Combining advantages of memristive oxide and spintronic materials in a single hybrid synapse device for neuromorphic computing applications	Debanjan Bhowmik	Indian Institute of Technology Bombay	Merlyne De Souza	University of Sheffield	United Kingdom	9256000

69	P4366	Semiconductors	Machine Learning-Driven Design and Simulation of High-Mobility HfOâ„‚-Based Ferroelectric Thin-Film Transistors (FeTFTs) for Next-Generation Low-Power Electronics	Pheiroijam Pooja	Dr BR Ambedkar National Institute of Technology Jalandhar	Vihar Petkov Georgiev	University of Glasgow	United Kingdom	**9666000**
70	P4377	Semiconductors	Integrated four-quadrant SiC multi-chip power modules for next-generation single-stage power electronics	Shiladri Chakraborty	Indian Institute of Technology Bombay	Alan Mantooth	University of Arkansas, Fayetteville	United States	**11038000**
71	P4342	Space and Defense	Hydrodynamic Optimization and Signature Suppression for bluff body wakes	Vinod Narayanan	Indian Institute of Technology Gandhinagar	Leonardo P. Chamorro	University of Illinois Urbana-Champaign	United States	**9916000**
72	P4356	Space and Defense	Adaptive and Deployable Tensegrity Robotics for Interplanetary Landers and Biomedical Devices	Subhamoy Sen	IIT Mandi	Valter Boehm	OTH Regensburg	Germany	**8179200**
73	P4315	Agri & Food Technologies	Synergistic Framework for Pathogen Control in Agri-Food Systems	H. Prathap Kumar Shetty	Pondicherry University, Puducherry	Prof. Elna Buys	Consumer and Food Sciences, University of Pretoria	South Africa	**10103000**
74	P4143	Energy, Sustainability and Climate Change	Exploring Next-Generation Catalytic Materials for Sustainable Energy and Environment	SOUNAK ROY	BITS Pilani Hyderabad Campus	Pascal Granger	UniversitÃ© de Lille	France	**9266000**
75	P4141	Healthcare & MedTech	Hybrid Electrospunâ€“3D Bioprinted Cardiac Tissues for Myocardial Regeneration and Drug Screening	Dhakshinamoorthy Sundaramurthi	Shanmugha Arts Science Technology & Research Academy (SASTRA)	Carmine Gentile	University of Technology Sydney	Australia	**10216000**
76	P4174	Healthcare & MedTech	SIgNREAD: Studying Integrated Neurocognitive and Linguistic Mechanisms of Reading in Deaf individuals	Vaibhav Tripathi	Indian Institute of Technology, Gandhinagar	Virginie Crollen	UniversitÃ© Catholique de Louvain, Belgium	Belgium	**10617000**
77	P4177	Healthcare & MedTech	Development of Stimuli-Responsive Theranostic Nanocomposites of Marine- and Plant-Derived Neuroprotective Agents for Parkinsonâ€™s Disease: An Integrated Approach	Shinomol George K	Kristu Jayanti (Deemed to be University)	Toyonobu Usuki	Sophia University, Tokyo, Japan	Japan	**10016000**
78	P4318	Healthcare & MedTech	Examining Real-Time Fatigue Through Interaction Analysis	Seema Wazarkar	Thapar Institute of Engineering & Technology Patiala	Dr Jarrod Knibbe	The University of Queensland	Australia	**11391000**
79	P4108	Healthcare & MedTech	Enhancing Ankle Stability in Early-Stage Parkinson's Disease through Targeted Muscle Co-Activation Reduction Training Strategies	Kavitha A	Sri Sivasubramaniya Nadar College of Engineering	Dinesh Kumar	Royal Melbourne Institute of Technology, Melbourne, Australia	Australia	**10526000**
80	P4007	Healthcare and MedTech	PROteolysis Targeted Chimera (PROTAC) Based Therapeutics for Selective PD-L1 Degradation in Cancer: Breaking Immune Evasion	Gaurav Joshi	Hemvati Nandan Bahuguna Garhwal (A Central) University, Uttarakhand, India	Muhammad Wahajuddin	Institute of Cancer Therapeutics, University of Bradford, United Kingdom	United Kingdom	**8992000**

81	P4038	Energy, Sustainability and Climate Change	NET-ZERO RURAL INDIA: ENGINEERING REGENERATIVE AGRI-TECH FOR DECARBONIZATION	Prithwiraj Dey	Indian Institute of Technology Kharagpur	Chris Greig	Princeton University, USA	United States	**9166000**
								Total	**751196900**