

**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Research in Environment)**

**AGENDA**

**5<sup>th</sup> Meeting of the Technical-cum-Financial Appraisal Committee (TFAC) on Environmental Research and Development Programme.**

**Venue: Narmada Conference Hall**

**Date: 05<sup>th</sup> -06<sup>th</sup> September, 2024**

**Time: 10.00 AM onwards**

**05<sup>th</sup> September, 2024**

**Agenda Item No.1:** Introductory remarks by Chairman/ Member Secretary.

**Agenda Item No.2:** Confirmation of Minutes of 4<sup>th</sup> meeting of the TFAC held on 18<sup>th</sup> – 19<sup>th</sup> June, 2024.

**Agenda Item No.3:** Project proposals to be considered:

**3.1** New project proposals received through online mode. (28)

**3.2** Proposals in which the PI could not attend the earlier meeting of TFAC. (12)

**6<sup>th</sup> September, 2024**

**3.3** Consideration of proposals which were referred to experts for comments. (06)

**3.4** Proposals which were returned by the Steering Committee for reconsideration due to change of project duration (12)

**Agenda Item No.4:** Any other item(s) with permission of Chair.

**Agenda Item No. 3.0 Proposals received through online for Scrutiny and consideration: (28 cases)**

S. No.	Registration Number	Thematic Area	Name of PI and Address	Title of Project	Page No.
3.1	705/2024/RE	Pollution Prevention – Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste Minimisation and Management, etc	Dr. Selvaraju Narayanasamy, Indian Institute of Technology Guwahati	Engineered Metal-Organic Framework-based Multistage Groundwater Purification System for Arsenic-dominated Northeast Groundwater Tables  <b>Duration:</b> 02 Years  <b>Total Outlay:</b> ₹45,87,342	
3.2	764/2024/RE	Sustainable Management of Natural Resources	Dr. Subhadra Rajpoot, Amity University Greater Noida	“Assessment of economic valuation of Biodiversity and Ecosystem services (BDES) with special reference to NTFPs in Dudhwa national park.”  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹13,95,000/-	
3.3	815/2024/RE	Climate Change: Vulnerability & Risk Assessment, Process, Mitigation and Adaptation	Dr. Aman Kumar Sharma, Assistant Professor, Department of Zoology, BGR, Campus, Pauri Garhwal	Assessing and Mitigating the Impact of Climate Change on Biodiversity and Ecosystems in Pauri, Uttarakhand  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹39,93,203/-	
3.4	826/2024/RE	Climate Change: Vulnerability & Risk Assessment, Process, Mitigation and Adaptation	Dr. K.S. Jinesh Babu, Mepco Schlenk Engineering College, Sivakasi	Climate change and urban flooding: Building capacity for climate adaptation  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹28,89,600/-	
3.5	748/2024/RE	Pollution Prevention – Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste Minimisation and Management, etc.	Dr. Rajkumar R, Mepco Schlenk Engineering College, Sivakasi	Enhancing the Fire Resistance and Mechanical Performance of Areca/Epoxy Composite for Automotive Applications  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹18,17,000/-	

3.6	834/2024/RE	Sustainable Management of Natural Resources	Dr. Senthil, Senior Associate Professor, Murugan B, School Of Computer Science Engineering And Information Systems, Sjt411 A20, Vit, Vellore, Tamilnadu	Middleware for Internet of Underwater Things (IoUT) based Big-Aquatic Data Analytics Infrastructure  <b>Duration:</b> 02 Years  <b>Total Outlay:</b> ₹19,91,172/-
3.7	711/2024/RE	Pollution Prevention – Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste Minimisation and Management, etc	Dr. Vinod Kumar, Associate Professor, Graphic Era (deemed to be) University	Wastewater to biofuel and Plant Growth Promoters: food–energy–water–environment nexus approach.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹68,53,920/-
3.8	828/2024/RE	Ecosystems Conservation & Management (Mountain, Forest, Coastal, Wetlands, Pastoral, etc) and Evaluation of Ecosystem Services	Dr. Sanjay Bhutani, UPES university of tomorrow, Dehradun	Experimental and numerical analysis of forest fire burning and their environmental impact at wildland urban interface.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹88,50,000/-
3.9	843/2024/RE	Pollution Prevention – Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste Minimisation and Management, etc	Dr. Jyoti Prakash, Amity University Uttar Pradesh, Lucknow Campus, Lucknow	Assessment and Carbon Sequestration Techniques for a Sustainable Environment.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹31,95,200/-
3.10	842/2024/RE	Sustainable Management of Natural Resources	Dr. shivendra.B.T, Dayananda Sagar College of Engineering	Investigations and prediction of Surface and Groundwater quality in Kolar District, Karnataka, India: A Using multi-pronged artificial Intelligence based approach.  <b>Duration:</b> 02 Years  <b>Total Outlay:</b> ₹58,15,425/-

3.11	848/2024/RE	Pollution Prevention – Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste Minimisation and Management, etc	Dr. A. Azhagurajan, Mepco Schlenk Engineering College, Sivakasi.	An experimental study of fireworks industries waste disposal by landfill by adding solid inertant to mitigate fire hazards and analyse the biodegradation & phytotoxicity to ascertain soil pollution.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹36,36,300/-
3.12	854/2024/RE	Pollution Prevention – Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste Minimisation and Management, etc	Dr. Palsamy Kanagaraj, Mepco Schlenk Engineering College (Autonomous), Sivakasi	Conversion of Lignin into High Value-Added Chemicals from Woody Biomass Using Membrane Contactor System Targeting to Reduce Overutilization of Fossil Fuel for Safety Environment.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹32,95,400/-
3.13	853/2024/RE	Pollution Prevention – Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste Minimisation and Management, etc	Dr. P.Sivagurunathan, Annamalai University, Annamalai Nagar,	Development of Eco-Friendly Phosphate Solubilizing and Nitrogen Fixing Microbial Consortium to Enhance the Algal Density, Water Quality and Productivity in Aquaculture Pond.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹45,62,188/-
3.14	841/2024/RE	Conservation and Management of Landscapes and Ecologically sensitive areas including issues of sustainable livelihoods	Dr. T Prabaharan, Mepco Schlenk Engineering College, Sivakasi	Assessing the execution characteristics of an Acoustic Fire Quencher.  <b>Duration:</b> 02 Years  <b>Total Outlay:</b> ₹14,91,320/-
3.15	840/2024/RE	Ecosystems Conservation & Management (Mountain, Forest, Coastal, Wetlands, Pastoral, etc) and Evaluation of Ecosystem Services	Dr. Prakash L, Mepco Schlenk Engineering College	Detonation way of synthesizing Nano Diamonds using low class pyrotechnic mixtures.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹29,79,880/-

3.16	852/2024/RE	Ecosystems Conservation & Management (Mountain, Forest, Coastal, Wetlands, Pastoral, etc) and Evaluation of Ecosystem Services	Dr. G.Usharani, Annamalai University, Annamalai Nagar, Chidambaram,60 8002	Development of eco-friendly phosphate 5odelling5ng and nitrogen-fixing microbial consortium to ensure survival and growth of the mangrove seedling.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹45,62,188/-	
3.17	829/2024/RE	Socio-economic issues of environment and Sustainable Development	Prof. Raj Kishor Sharma, University of Delhi, Delhi	Biomass/plastic waste derived hierarchical nanostructured porous carbon and novel perovskite oxides for asymmetric supercapacitor .  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹1,02,98,080/-	
3.18	693/2024/RE	Pollution Prevention – Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste Minimisation and Management, etc	Dr. Mamtesh Singh, Gargi College (University of Delhi), Delhi	Zero-waste algal bio refinery: Eco-biotechnological production of biodiesel and PHA using denim washing industry wastewater with integrated mathematical 5odelling study.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹72,46,000/-	
3.19	857/2024/RE	Socio-economic issues of environment and Sustainable Development	Dr. Selvan P, Mepco Schlenk Engineering College (Autonomous), Sivakasi	Optimized Passive condenser-cooled solar desalinator equipped with nano PCM amalgam and Solar Photovoltaic system.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹31,24,320/-	
3.20	539/2023/RE	Pollution Prevention – Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste Minimisation and Management, etc	Dr. R Mohana, Mepco Schlenk Engineering College, Sivakasi.	Automated Sustainable Lifecycle Assessment system to promote the developed cementless eco-friendly precast panels.  <b>Duration:</b> 02 Years  <b>Total Outlay:</b> ₹24,19,310/-	

3.21	792/2024/RE	Sustainable Management of Natural Resources	Dr. Santosh upadhyay, Kumaun University Nainital	Molecular characterization of the fungal microbiome of rare Himalayan lichens and development of repository of culturable 'lichen-associated microfungi' for conservation and bioprospecting applications	
3.22	872/2024/RE	Pollution Prevention – Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste Minimisation and Management, etc	Dr. Kannan G, Mepco Schlenk Engineering College, Sivakasi.	Sustainable Slope Stabilization Using Geogrids Made from Pet Bottle Waste by Low-Emission Method	
3.23	877/2024/RE	Climate Change: Vulnerability & Risk Assessment, Process, Mitigation and Adaptation	Dr. N. Rajendra Prasad, Annamalai University, Annamalai Nagar	Assessing Genomic Damage from Environmental Radioactivity in the Populations of Kanyakumari District: Harnessing Deinococcus radiodurans for Bioremediation	
3.24	847/2024/RE	Pollution Prevention – Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste Minimisation and Management, etc	Dr. Jyoti Mittal, Maulana Azad National Institute of Technology, Bhopal	Ordered Mesoporous Adsorbent Materials of Carbon and Silicon for the Removal and Recovery of Toxic Dyes	
3.25	878/2024/RE	Pollution Prevention – Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste Minimisation and Management, etc	Ms. Shivani Sharma, The Energy and Resources Institute (TERI), Delhi	Development of a Decision Support System (DSS) for Air Quality Management in Indian States.	
3.26	678/2024/RE	Pollution Prevention – Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste	Prof. Manoj Kumar Ghosal, Socio Cultural Development Centre, Odisha	Technology Development for Conversion of Tender Coconut Waste to Biocoal as an Energy Rich and Smokeless Cooking Fuel for Rural Applications in Puri District of Odisha.	

		Minimisation and Management, etc			
3.27	866/2024/RE	Biodiversity Conservation including Issues of Alien and invasive species and Human-wildlife Interface	Mr. Pradeep B., Rubber Research Institute of India (RRII), Kerala	Mapping buffer zones of human-wildlife conflict in the fringes of forests in the Western Ghats in Kerala, Tamil Nadu and Karnataka due to the expansion of plantation crops using geospatial technology	
3.28	844/2024/RE	Pollution Prevention – Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste Minimisation and Management, etc	Dr. Meenakshi Sharma, University of Delhi, Delhi	ZnO nanorods-microalgae-based Yamuna wastewater treatment and beneficiation to the energy content of microalgae biomass for enhanced biofuel conversions.	

### 3.2 Project in which PI could not attend the earlier meeting of the TFAC. (12 cases)

S. No	Registration Number	Name of PI and Address	Title of Project, Duration and Total Outlay	Page No.
3.2.1	697/2024/RE	Dr. V.P. Uniyal, Graphic Era University, Dehradun	Impact of Forest Fires on Biological diversity of the Mandakini Catchment Area, Rudraprayag: A Multi-Taxa Approach  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹72,29,820/-	
3.2.2	719/2024/RE	Prof. Ram Krishan Negi, University of Delhi, Delhi.	Unlocking Genetic Diversity: Molecular Taxonomy of Freshwater Fish species in the Satluj River, H.P.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹65,06,224/-	
3.2.3	737/2024/RE	Dr. Atanu Naskar, ZSI Kolkata	Integrative taxonomy and phylogeny of non-biting midges (Diptera: Chironomidae) from Western Ghats with an emphasis on their ecological and molecular aspects.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹62,70,000/-	
3.2.4	733/2024/RE	Dr. Vedpriya Arya, Patanjali Research Foundation Trust, Haridwar.	Bioprospecting of Endophytic fungi from Invaluable medicinal plants distributed in different agro-climatic zones of Uttarakhand, India.  <b>Duration:</b> 02 Years  <b>Total Outlay:</b> ₹ 2,00,02,496/-	
3.2.5	690/2024/RE	Dr. Neetu Divya, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar.	Design and Development of Perovskite Solar Cells (PSCs) by utilizing Quantum Dots Materials.  <b>Duration:</b> 03Years  <b>Total Outlay:</b> ₹ 98,65,000/-	
3.2.6	775/2024/RE	Dr. Raj Kumar, ICAR-Central Soil Salinity Research Institute, Kach.	Developing high-value tree-based plantation systems for economic and ecological security in sodic water environments.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹ 47,04,240/-	
3.2.7	750/2024/RE	Mrs. Minati Bindhani, General Secretary, Women and Child	Lecture and Demonstration Programme on "Biodiversity Conservation in the Face of Climate Change	



		Welfare Society, Gamhandia New Colony, Buxibazar, Cuttack	
3.2.8	759/2024/RE	Dr. Ningappa Changond Hiragond, Assoc. Prof., Zoology, Yashwantrao Chavan Mahavidyalaya Halkarni, Kolhapur.	An assessment of avifauna diversity, their migration and conservation status in Yadahalli Chinkara Wildlife Sanctuary, Bagalkot: Karnataka.  <b>Duration:</b> 02 Years  <b>Total Outlay:</b> ₹ 27,30,901.14/-
3.2.9	758/2024/RE	Prof. Vartika Mathur, Sri Venkateswara College, University of Delhi, Delhi.	Navigating the Lantana Conundrum: Invasion to restoration through soil dynamics and native grass interactions.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹ 1,88,43,006/-
3.2.10	578/2023/RE	Dr. H.K. Ramaraju, Prof., Civil Engg Deptt., Dayananda Sagar College of Engineering, Shavigemalleshwara Hills, Kumaraswamy Layout, Bangalore- 560111.	Pre-processing approaches in Machine learning and Remote Sensing based on Groundwater Potential mapping in the drought prone area of North Eastern part of Tumkur District, Karnataka.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹ 30,35,000/-
3.2.11	590/2023/RE	Dr. Bhanu Prakash Vellanki, Department of Civil Engineering, IIT, Roorkee-247667.	Development of novel biodegradable multifunctional mulching film for sustainable and environmentally friendly agriculture practices.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹ 32,94,000/-
3.2.12	337/2020/RE	Dr. Angayarkanni J, Department of Microbial Biotechnology, Bharathiar University, Coimbatore	Plausible role of Bacteriophages present in the High Altitude Himalayan River waters.  <b>Duration:</b> 02 Years  <b>Total Outlay:</b> ₹ 83,49,000/-

**3.3 Consideration of project proposals which were referred to experts for their comments: (06 cases)**

<b>S.No.</b>	<b>Project ID and Title</b>	<b>PI Institution</b>
<b>3.3.1</b>	<b>19-4/2023-RE</b> “Remote Sensing and GIS based Ecosystem Services Valuation of Agro forestry Systems Prevailing in Punjab – A case study.”	Dr. Dikesh Chandra Loshali, Punjab Remote Sensing Centre, Ludhiana
<b>3.3.2</b>	<b>19-6/2023-RE</b> “Development of microwave irradiated rice straw for animal feeding to combat straw burning issue and increase productivity.”	Dr. Rajesh Kumar, LalaLajpatRai University ofVeterinary and Animal Sciences, Hisar.
<b>3.3.3</b>	<b>19-7/2023-RE</b> “Studies on Ecology, phytosociology, reproductive biology and Conservation action for threatened ten iconic endemic trees in south Western Ghats, Kerala.”	Dr. Jose Mathew Sanatana Dharma College, Sanatanapuram 688003
<b>3.3.4</b>	<b>19-9/2023-RE</b> “Creation of road accidents (high severity) social cost model for Madurai city.”	Mrs.Bharathi S. Sethu, Institute of Technology, Kariapatti.
<b>3.3.5</b>	713/2024/RE “ Technological Intervention of DFS Model in Holistic Way to Scale Up Commercial Activity and Its Impact Analysis On Social and Environmental Issues in Coastal Area of West Bengal”	Dr. Somnath Saha, Adviser, Community for Social Work, 84 Rabindra Pally, Shyamnaga, Rabindrapally West Bengal.
<b>3.3.6</b>	618/2023/RE “Biodiversity characterization and development of biodiversity conservation plan for unexplored sohagi barwa and suhelwa wildlife sanctuaries of Uttar Pradesh”	Prof. Jamal A Khan, Deptt. of Wildlife Sciences, AMU, Aligarh

**3.4 Project proposals which were returned by the Steering Committee due to 03 year duration of the project (12):**

S.No.	Registration Number	Thematic Area	Name of PI and Address	Title of Project, Duration and Total Outlay	Page No.
1.	555/2023/RE	Ecosystems Conservation & Management (Mountain, Forest, Coastal, Wetlands, Pastoral, etc) and Evaluation of Ecosystem Services	Prof. Sumit Sen, Department of Hydrology, IIT Roorkee	Forest Ecosystem Assessment in the Western Himalayan Region: Integrated Approach for Sustainable Conservation and Management of Ecosystem Services.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹2,00,77,030/-	
2.	637/2024/RE	Ecosystems Conservation & Management (Mountain, Forest, Coastal, Wetlands, Pastoral, etc) and Evaluation of Ecosystem Services	Dr. Randeep Singh, Associate Director, Amity Institute of Forestry and Wildlife, Amity University Uttar Pradesh Noida sector 125 Gautam Budha Nagar	Economic valuation of the Ecosystem Services provided by golden jackals and striped hyenas in and around Dholpur-Karauli Tiger Reserve and Kaila Devi Wildlife Sanctuary in Rajasthan.  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹ 69,39,440/-	
3.	586/2023/RE	Sustainable Management of Natural Resources	Prof. Brijesh Kumar Yadav, Department of Hydrology, IIT Roorkee,	Comprehensive Assessment of Co-Transport of Microplastics and Heavy Metals during Groundwater-Surface water Interactions  <b>Duration:</b> 3 Years  <b>Total Outlay:</b> ₹ 49,42,000/-	
4.	276/2020/RE	Sustainable Management of Natural Resources	Dr. Binu N. Kamalobhavan, Assistant Professor, Dept. of Forest Biology and Tree Improvement College of Forestry Kerala Agricultural University KAU PO	Natural distribution, ecological niche modelling, selection of CPTs, its evaluation and nursery production of sandal (Santalum album Linn.)  <b>Duration:</b> 3 Years  <b>Total Outlay:</b> ₹63,56,400/-	

5.	668/2024/RE	Sustainable Management of Natural Resources	Prof. Archana Tiwari, Professor, Amity University, Noida, Uttar Pradesh	Potential of periphytic diatoms in the uptake of nutrients in eutrophic environments, and their subsequent applications as slow-release biofertilizer for sustainable environment  <b>Duration:</b> 03 Years  <b>Total Outlay:</b> ₹68,85,472/-
6.	410/2023/RE	Taxonomy	Dr. Vikas Kumar, Zoological Survey of India M Block, New Alipore, Kolkata	Molecular Taxonomy and Phylogeny of Terebrantia (Thysanoptera: Insecta) from India  <b>Duration:</b> 3 Years  <b>Total Outlay:</b> ₹57,98,280/-
7.	70/2021/RE	Pollution Prevention - Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste Minimisation and Management, etc	Prof. A. Geetha Bhavani, Department of Chemistry, Noida International University, Noida	Converting waste cooking oil to Biodiesel Using Green Catalyst and Catalyst Regeneration Studies,  <b>Duration:</b> 3 Years  <b>Total Outlay:</b> ₹63,32,089/-
8.	557/2023/RE	Pollution Prevention - Clean Technologies and Processes, Cleaner Production, 3Rs, Resource Efficiency, Waste Minimisation and Management, etc	Dr. Nitin Kumar Khandelwal, Department of Hydrology, IIT, Roorkee,	Devising eco-friendly redox-active nano composites micro reactors with enhanced contaminant selectivity for continuous water purification  <b>Duration:</b> 3 Years  <b>Total Outlay:</b> ₹25,76,000/-
9.	364/2023/RE	Climate Change: Vulnerability & Risk Assessment, Process, Mitigation and Adaptation	Dr. Geeta S. Joshi, Civil Engg. Dept. Faculty of Technology (The Maharaja Sayajorao University of Baroda), Rajmahal Road, Vadodara	Climate change adaptation model for water management and cropping practices in agro-climatic zone in the state of Gujarat  <b>Duration:</b> 3 Years  <b>Total Outlay:</b> ₹54,66,000/-
10.	559/2023/RE	Biodiversity Conservation including Issues of Alien and invasive species and Human-wildlife Interface	Dr. Ashish Kumar, ICAR-National Institute for Plant Biotechnology,	Exploration, conservation and characterization of wild Brassica species for the development of genetic and genomic resources to uncover climate-resilient

			Lab No.- 12, LBS Building, Pusa Campus, New Delhi	traits through integrated approaches <b>Duration:</b> 3 Years <b>Total Outlay:</b> ₹57,74,624/-	
11.	595/2023/RE	Biodiversity Conservation including Issues of Alien and invasive species and Human-wildlife Interface	Dr. Annam Pavan Kumar, ICAR-Central Institute of Fisheries Education, Panch Marg, Yari Road, Versova, Andheri West, Mumbai	Population Demography and Risk Assessment of Invasive South American Armoured Catfish <i>Pterygoplichthys</i> sp. in the Indian Freshwater Systems: A Way Forward for Sustainable Native Fish Diversity <b>Duration:</b> 3 Years <b>Total Outlay:</b> ₹85,34,080/-	
12.	625/2023/RE	Biodiversity Conservation including Issues of Alien and invasive species and Human-wildlife Interface	Dr. Rajeev Singh, Jamia Millia Islamia, Delhi	Airborne Microbial-contaminants in Delhi Slum Settlements: Isolation, Characterization, and Human Health Assessment. <b>Duration:</b> 03 Years <b>Total Outlay:</b> ₹49,72,800/-	

\*\*\*\*\*