

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

AGENDA

1st Meeting of the reconstituted Technical-cum-Financial Appraisal Committee (TFAC) on Environmental Research and Development Programme.

Venue : **Teesta Conference Hall**
Date : **12th – 13th October, 2023**
Time : **10:30AM onwards**

12TH OCTOBER, 2023

Agenda Item No.1.0 Introductory remarks by the Chairman, TFAC **(10:30AM to 10:40AM)**

Agenda Item No.2.0 Confirmation of Minutes of 20th TFAC meeting held on 30.05.2022.
(10:40AM to 10:50 AM)

Agenda Item No. 3.0 Projects to be considered: **(10:50AM to 01:30 PM)**

3.1 New project proposals received through online on the MIS Portal**(125)**

3.2 Revised project proposals**(26)**

3.3 Proposals which were recommended for modification by TFAC in its earlier meetings **(32)**

3.4 Proposals which were under consideration of TFAC **(23)**

LUNCH BREAK (01:30PM to 02:30 PM)

Agenda Item No. 4.0. Review of the progress of the research projects under ERDP:
(02:30PM to 05:30 PM)

4.1 Review of the progress of the on-going research projects of ERDP **(19)**

4.2 Review of the On-going Projects of AICOPTAX**(07)**

13TH OCTOBER, 2023

Agenda Item No. 5.0. Completed projects for acceptance of Final Technical Report (FTR) (05)

5.1 Completed projects for acceptance of Final Technical Report (FTR) under AICOPTAX **(26) (10:30AM to 01:30PM)**

LUNCH BREAK (01:30PM to 02:30 PM)

5.2 Completed projects for acceptance of Final Technical Report (FTR) under ERDP **(06) (02:30AM to 05:30PM)**

Agenda Item No. 6.0 Any other item(s), if any, with permission of Chair.

Agenda Item No. 3.0

3.1 List of new projects received through online for Scrutiny and consideration:

A total 126 project proposals (As per the decision already taken, these proposals may not be considered for funding)

S. No.	Registration No.	Date of received proposal	Title of the project	PI Name /Name of Institution and Address
1.	505/2023/RE	31/08/2023	A study on carbon sequestration, community structure, and phenology of selected Mangrove Ecosystems of the Southwest Coast of India	Dr. M S Shylesh Chandran, Amrita VishwaVidyapeetham, Coimbatore
2.	472/2023/RE	02/08/2023	Bioaugmentedbiobed to prevent point source pesticide pollution for tropical region	Dr. Pritam Ganguly, Bihar Agricultural University, Bhagalpur, Bihar
3.	462/2023/RE	17/07/2023	Environmental and economic effect of integrating industrial waste and basalt fibers in cement block prism	Dr. R Shanthi Vengadeshwari, Dayananda Sagar College of Engineering, Banglaore
4.	474/2023/RE	07/07/2023	Enhanced Degradation of Emerging Contaminants and Energy Recovery using Modified Electrochemical Reactor: Reuse and Recycling of Treated Effluent	Prof. Narasamma Nippatlapalli, Indian Institute of Technology, Tirupati
5.	476/2023/RE	07/07/2023	Automated Environmental Impact Assessment system to promote the sustainable cementless eco-friendly precast panels for impact load	Dr. R Mohana, Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu
6.	451/2023/RE	29/06/2023	Studies on population structure, distribution pattern and regeneration potential of medicinal plants flora of rancer island and adjoining areas of pong dam (maharanapratapsagar) himachalpradesh	Dr. Vivek Sharma Eternal University, Himachal Pradesh
7.	469/2023/RE	27/06/2023	Developing cost-effective expedient tools for rapid detection and quantification of pesticides in biotic and abiotic samples for a green environment	Dr. Prithidipa Sahoo Visva-Bharati Santiniketan, West Bengal

8.	440/2023/RE	15/06/2023	Metagenomic Exploration of Gaumukh Region at Gangotri Glacier: Unveiling Microbial Responses to Climate Change	Dr. Krishna Khairnar National Environmental Engineering Research Institute, Nagpur
9.	449/2023/RE	05/06/2023	Open Source Technology for Analysis and Comprehensive Study of Differential Change in Floral Canopy of Mangrove Vegetation in Sundarbans using Field Spectroscopy	Dr. Subhankar Joardar, Haldia Institute of Technology, West Bengal
10.	441/2023/RE	24/05/2023	Micropropagation and Biochemical profiling of Corallocarpus conocarpus (D. alz. & Gibs.) Cl. Rare and Threatened Plant	Dr. Kalpesh Kumar Babubhailshnava Sardar Patel University, Gujarat
11.	428/2023/RE	15/05/2023	Taxonomy and Diversity of the Lesser Known Arachnid, Opiliones in Western Ghats	Dr. Mathew M. J. Sacred Heart College Kochi, Kerala
12.	418/2023/RE	12/05/2023	Sustainable Waste Management system and recovery of Value added Energy product from Biodegradable solid waste in Chittoor City, Andhra Pradesh	Dr. Oliver Jayaprakash P Sri Venkateswara College of Engineering and Technology, Chittoor, Andhra Pradesh
13.	409/2023/RE	24/04/2023	A novel nano technological approach by using flyash for a paradigm shift towards municipal solid waste management to improve its efficacy using microbial consortia for global health against climate change	Dr. S. Kalaiarasu Annamalai University, Tamil Nadu
14.	421/2023/RE	19/04/2023	Community structure and functional diversity of rhizosphere Actinobacteria in the productivity of Bhitarkanika mangrove ecosystem, Odisha, India under the climatological and environmental stressors	Dr. Surajit Das National Institute of Technology Rourkela, Odisha
15.	413/2023/RE	06/04/2023	Study on stock assessment of commercially important fishes of the rivers Ganga-Yamuna and impact of climate change on their population and its commercialization of developed products to generate employment..	Dr. Anees F Rizvi Institute of Bio Research and Human Development Bird Prayagraj, UP
16.	403/2023/RE	29/03/2023	Preparation of Health Report Card of Hirakund Dam Reservoir, a RAMSAR	Prof. Pradeep Kumar Naik, Sambalpur University, Odisha

			site of Odisha, based on Water Quality Index, Aquatic Biodiversity and Land Use Pattern	
17.	370/2023/RE	17/02/2023	Climinfo-Observer: A Participatory Early Warning, Alert and Response System (PEWARS) for Managing Information Disorder Related to Climate Change	Dr. V. V. Binoy National Institute of Advanced Studies Indian Institute of Science Campus Bangalore
18.	384/2023/RE	09/02/2023	Fecal sludge management and its uses in energy generation	Dr.Ningombam Linthoingambi Devi Central University of South Bihar Karhara (Bihar)
19.	382/2023/RE	07/02/2023	Development of environmentally sustainable and cost-effective geopolymer concrete using flyash-cupola slag with enhanced mechanical characteristics	Dr.Saravanan, Kongunadu College of Engineering and Technology Tamil Nadu
20.	380/2023/RE	06/02/2023	Floating atmospheric environment pollutant remover	Dr.SandeepBansal, Shree Guru Gobind Singh Tricentenary University Gurugram, Haryana
21.	366/2023/RE	18/01/2023	Risk Assessment of Metal Toxicity through Trophic Transfer of Major Aquatic Ecosystems of Kashmir	Dr.Imtiyaz Qayoom Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir, Jammu and Kashmir
22.	368/2023/RE	17/01/2023	Vehicular pollution (exhaust and road-wheel dust) reduction; on road charging of electric vehicles; and overall energy saving	Dr.Atul Babbar Shree Guru Gobind Singh Tricentenary University, Gurugram, Haryana
23.	363/2023/RE	10/01/2023	Onsite Biological Treatment of Weed Biomass of Wetlands in Uttar Pradesh	Dr. Jiwan Singh Babasheb Bhimrao Ambedkar University Lucknow
24.	344/2022/RE	17/12/2022	Long-term assessment of toxic heavy metal diffusion and its control in the vicinity of river Yamuna passing through Delhi	Dr. Partha Das Netaji Subhas University of Technology (Govt. Of NCT- Delhi) New Delhi
25.	162/2022/RE	23/11/2022	Biodiversity studies of massive tree planting forest area in scrub jungle vegetation of Forest College & Research station , Mettupalayam in Jackanari Reserve forest	Dr. Ramesh Forest College and Research Institute, Tamil Nadu

26.	273/2022/RE	05/11/2022	Biodiversity, Eco-health, Socioeconomic and Ethnobiological studies in Pulicat Lake, India – A multidisciplinary approach for Conservation and Sustainable Management	Dr. G. Gnanasekaran Madras Christian College Madras Christian College Chennai
27.	182/2022/RE	20/10/2022	Altered CO ₂ diffusion and capture strategies for suspended cultivation of estuarine Nannochloropsissalina and immobilised microalgae polyculture cultivation for enhanced biomass productivity	Dr. P. Hanumantha Rao Madras Christian College Tambaram, East Chennai
28.	292/2022/RE	11/10/2022	Integrated sorting cum processing of municipal solid waste(msw) using maximum yield technology (max-yt) for sustainable environment	Dr. S Baskar Karpagam Academy of Higher Education Coimbatore, Tamilnadu
29.	291/2022/RE	11/10/2022	Design and development of advanced women napkin testing and analysing unit	Dr.K.P.Sridhar Karpagam Academy of Higher Education Coimbatore.
30.	290/2022/RE	11/10/2022	A sustainable desalination bio-component material in optimizing water quality and quantity for different usage	Er. Vignesh G Karpagam Academy of Higher Education Coimbatore.
31.	282/2022/RE	03/10/2022	Use of Vermicompost for developing resistance in plants against Spodopteralitura (Fab.)	Dr. Nalini Singh Chauhan KanyaMaha Vidyalaya, Jalandhar
32.	289/2022/RE	30/09/2022	Multi-scale Assessment of Integrated Watershed Management and Its Impacts on Upper sub basin of Mahanadi River in Chhattisgarh	Dr. Ajay Kumar Singh Guru Ghasidas Central University, Bilaspur
33.	192/2022/RE	30/09/2022	Study on soil seed banks and their implications for wetland vegetation restoration in Lamphel pat, Imphal, Manipur	Dr.Bobbymoore Konsam Amity University Noida
34.	166/2022/RE	26/09/2022	To control the growth of water hyacinth with a novel method (underwater acoustics)	Dr. R Saravana Sathiya Prabhakar Mepco Schlenk Engineering College TN
35.	250/2022/RE	16/09/2022	A quantitative and qualitative assessment of marine litter allied to fishing systems along the coast of India	Dr. Manju Lekshmi N ICAR CIFT, Kochi

36.	212/2022/RE	13/09/2022	Evaluation of efficacy of chitin synthesis inhibitors in management of Shisham defoliator, Plecopterare flexa Guenee	Ms. G suma Forest Research Institute Dehradun Forest Research Institute, Dehradun
37.	209/2022/RE	12/09/2022	Spatio-temporal variation of fine root production and nutrient dynamics in oak, pine and oak-pine mixed forests in central Himalaya	Dr. Abhishek K. Verma Forest Research Institute, Dehradun
38.	239/2022/RE	31/08/2022	Study and rehabilitation of rare endangered and threatened species of orchids (Orchidaceae) into the natural ecosystem of Mouling National Park, Upper Siang District, Arunachal Pradesh, India	Dr. OnaApang State Forest Research Institute Arunachal Pradesh
39.	252/2022/RE	08/08/2022	Status, Ecology & Threats to Squirrels in Indian Western Himalayas	Dr.Murali Krishna Chatakonda Amity University Noida
40.	208/2022/RE	08/08/2022	Evaluation of water stress tolerance in indigenous tree species for ecorestoration of degraded areas in Vidhyan hills and Bundelkhand	Dr. Sanjay Singh Forest Research Institute ,Dehradun
41.	241/2022/RE	03/08/2022	Enhancing the livelihood security of forest fringe community of Himachal Pradesh through livestock health interventions	Dr. Devi Gopinath ICAR Indian Veterinary Research Institute Bareilly, Uttar Pradesh
42.	205/2022/RE	03/08/2022	Exploring Trichoderma species to combat salinity-related desertification	Dr. Shailesh Pandey Forest Research Institute Dehradun
43.	214/2022/RE	25/07/2022	Policy measures to mitigate human-tiger conflict in Gosaba: A sustainable approach to livelihood restoration of people displaced and conservation of mangrove tiger habitat in Sundarbans	Dr. Mononita Kundu Das St Xaviers University Kolkata
44.	226/2022/RE	20/07/2022	Soil erosion susceptibility mapping of Arunachal Pradesh under climate and LULC change scenarios	Dr. Aditi Bhadra North Eastern Regional Institute of Science and Technology (NERIST) Arunachal Pradesh
45.	231/2022/RE	15/07/2022	"Investigations on Co-Combustion of Sewage Sludge, Municipal Solid Waste and Biomass with Bituminous Coal"	Dr.Shivendra B.T DayanandaSagar College of Engineering Department of Civil Engineering Bangalore

46.	230/2022/RE	15/07/2022	"Risk Assessment And Toxicological Investigations on Microplastics in fresh water ecosystems of Punjab	Dr. Archana Saini Kanya Maha Vidyalaya, Jalandhar
47.	202/2022/RE	14/07/2022	Salt stress mitigation in trees by plant growth promotion and soil reclamation using bio-fertilizers in field conditions in Haryana	Dr. Parul Bhatt Kotiyal Forest Research Institute, Dehradun,
48.	106/2022/RE	11/07/2022	A Sustainable Recycling of Polyethylene Terephthalate (PET) from Waste Plastic Bottles for Utilization in Value Added Products for Adsorption and Catalysis.	Dr. Meenu Maharaja Ranjit Singh Punjab Technical University, Jalandhar
49.	220/2022/RE	04/07/2022	The study of population and conservation of AlphonseamadraspataBedd. Radermacheraxylcarpa (Roxb.) Roxb. exK.Schum. – an endangered plant	Dr. Kalidass C Regional Plant Resource Centre Bhubaneswar
50.	87/2022/RE	30/06/2022	Restoration of River Bharalu	Dr. Arup Kumar Hazarika Cotton University Panbazar, Guwahati, Assam
51.	125/2022/RE	27/06/2022	Isolation, Identification and Evaluation of antagonistic efficacy of Trichoderma strains from soils of Telangana and their utilisation in disease management Program	Dr. Basavaraj S National Institute of Plant Health Management Rajendra Nagar Hyderabad
52.	203/2022/RE	25/06/2022	Implantable/Attachable Sensor Unit and IoT Enabled Monitoring System for the Assessment of Aquatic Lives and Water Quality	Dr.Mitradip Bhattacharjee Indian Institute of Science Education and Research, Bhopal
53.	172/2022/RE	24/06/2022	Development of hairy root system as rhizofilter on Canna Lily roots for organic waste treatment	Dr.SanjogThul National Environmental Engineering Research Institute Nagpur
54.	199/2022/RE	24/06/2022	Habitat associations and species diversity of macro-moths in Western Himalayan temperate forests of Uttarakhand	Dr.ArunPratap Singh FRI, Dehradun P.O. New Forest, Dehradun.
55.	96/2022/RE	17/06/2022	Assessment of tree species diversity in natural forests of Wardha District, Maharashtra	Dr.Abhimanyu A. Maheshwari Bajaj College of Science, Wardha.
56.	175/2022/RE	03/06/2022	Survey, Isolation, identification and evaluation	Dr.AzizurRahman Tocklai Tea Research

			of indigenous strains of Entomopathogenic nematodes (Nematoda) in tea growing areas of Assam and in-vivo trial for mass production technology.	Institute, Assam
57.	167/2022/RE	26/05/2022	Occurrence and species richness of mycorrhizal fungi associated with tree species in Miyawaki (mixed species) plantation	Dr. A Muthu Kumar Institute of Wood Science and Technology, Malleshwaram, Bangalore.
58.	112/2022/RE	21/05/2022	Legislating climate change in india: law & policy measures on mitigation, rehabilitation & protection of vulnerable communities	Mr.SairamBhatGopalkrishna National Law School of India University Bengaluru
59.	161/2022/RE	20/05/2022	Spatial Ecology of globally threatened Clouded Leopard (Neofelisnebulosa) in Northeast India	Salvador Lyngdoh Wildlife Institute of India, Dehradun.
60.	100/2022/RE	19/05/2022	Production of Renewable Diesel from Mossy Swamp Biomass of Aquatic Ecosystem using HTL Technology: A Dual Approach to Waste Mitigation and Environmental Conservation	Dr. Mohammad Aslam National Institute of Technology Srinagar (J&K), Srinagar (JK)
61.	86/2022/RE	03/05/2022	Coping with Cyclone in Changing Climate: Indigenous knowledge, Technological Intervention and Institutional adaptation (A Study of Coastal Villages in Odisha)	Dr. Shibsankar Jena Dr Hari Singh Gour Vishwavidyalaya, Sagar, Madhya Pradesh
62.	128/2022/RE	28/04/2022	Geospatial Studies for Assessment of Urban Heat Islands and its trend in God's own Country, Kerala.	Dr. Smitha Chandran S, Amrita VishwaVidyapeetham, Amritapuri Campus Kerala
63.	117/2022/RE	22/04/2022	Early Detection, Tracking and Suppression of Wildfire Disaster by Design and Development of WSN Based Multi-Modal Systems	Dr. R Latha, St. Peters Institute of Higher Education and Research, Avadi, Chennai.
64.	78/2022/RE	20/04/2022	Ground water and soil management in solid waste dump yard using machine learning and geospatial technologies with real time data	Dr. B. Anuradha Chennai Institute of Technology Chennai Institute of Technology, Kundrathur, Chennai
65.	31/2022/RE	31/03/2022	Floristic Biodiversity and Sustainable Resource Management of Leaf Plate Making Source Trees for	Dr. Rani Ladly Ranchi University Ranchi

			Socio-Economic Upliftment of Ethnic People in Lawalaung Wildlife Reserve and its adjacent areas in Jharkhand	
66.	82/2022/RE	31/03/2022	Improvement of air quality in educational microenvironments	Dr.ThaseemThajudeen Indian Institute of Technology , Goa
67.	62/2022/RE	29/03/2022	Anaerobic Digestion of Fruit and Vegetable Waste: An Approach for waste to energy conversion	Dr.PrabirGhosh National Institute of Technology, Raipur
68.	80/2022/RE	28/03/2022	Development of energy storing structural components via Displaced Industrial/Mine wastes for sustainable development	Mr.Vignesh Kumar N Mizoram University, Tanhril, Aizawl
69.	70/2022/RE	24/03/2022	Waste water treatment using Nano photocatalytic approach for silk saree dye industries in Kanchipuram	Dr.A.Kavitha Chennai Institute of Technology, Chennai.
70.	63/2022/RE	24/02/2022	Monitoring of avifauna of Nagi- Nakti bird sanctuary with respect to the physico-chemical properties of water, biota and human activities.	Prof. ShahlaYasmin Patna University Patna
71.	64/2022/RE	23/02/2022	Development of Microbial Fuel cell Driven Electrosorption for Struvite Recovery from Source Separated Urine: a Sustainable Biorefinery for Fertilizer Production	Dr. Jerold Manuel National Institute of Technology Warangal Telangana
72.	53/2022/RE	22/02/2022	Ecosystem service assessment of selected wetlands in and around Ratapani wildlife sanctuary: Preparation of Conservation and Management Plans	Dr. Abhilasha Bhawsar Barkatullah University Bhopal
73.	4/2022/RE	18/02/2022	Bioaccumulation and risk assessment of toxic metals in food-chain of select wetland ecosystems of Bihar	Dr.AnupmaKumari Patna University, Patna
74.	48/2022/RE	16/02/2022	Assessment of water resource vulnerability using geospatial technology for strategic mitigation and resilient management in Manipur state, India	Dr.BirajKantiMondal NetajiSubhas Open University, Kolkata
75.	45/2022/RE	07/02/2022	Investigation and Development of Methodology for Recycling of Grey Oily Water using	Dr.Banumalar K Mepco Schlenk Engineering College, Sivakasi

			Human Hair and Coconut Husks	
76.	43/2022/RE	01/02/2022	Microbial degradation and strategies for abatement of endocrine disrupting, priority pollutants phthalates esters and PET plastic	Prof. Prashant S Phale, IIT Bombay Powai, Bombay
77.	23/2022/RE	22/01/2022	Phytoremediation of Arsenic Contaminated Soil using hyperaccumulators for the enhancement of food crops in Coimbatore region, Tamil Nadu	Dr. N. Natarajan Dr.Mahalingam College of Engineering and Technology,Pollachi
78.	11/2022/RE	15/01/2022	Nursery raising, plantation and manufacturing of bamboo (bambusabambos) based handicraft items for income generation and environment amelioration	Prof. Tarun Kumar Thakur Indira Gandhi National Tribal University, Amarkantak, MP
79.	2/2022/RE	10/01/2022	Recycling of Carbon Fiber Reinforced Polymer (CFRP) and its environmental impact viz. Carbon Footprints	Dr. Sandip Tukaram Chavan Dr VishwanathKarad MIT World Peace University, Pune
80.	1/2022/RE	10/01/2022	Ecotoxicological repercussions of microplastics on the Aquatic Ecosystem in the river Yamuna	Prof. Ram KrishanNegi, University of Delhi, Delhi
81.	310/2021/RE	31/12/2021	Using treated wastewater for agriculture – an integrated approach for sustainable agriculture and improvement of livelihood of farmers	Dr. K.S. JineshBabu MepcoSchlenk Engineering College Sivakasi
82.	285/2021/RE	18/12/2021	Environmentally benign supercritical carbon di-oxide (sc-co2) based water free textile coloration technology: a disruptive innovation to eliminate water pollution	Dr.ManishaMathur The Synthetic and Aet Silk Mills Research Association Mumbai
83.	112/2021/RE	17/12/2021	Evolving multistakeholder approach for management of Gahirmatha Marine Sanctuary, Odisha	Mr.RohitMagotra Integrated Research and Action for Development ,New Delhi
84.	299/2021/RE	16/12/2021	“Assessment of heavy metals and pesticides in water and soil from an irrigated agricultural area of river basin in Karnataka, India”.	Dr.Shivendra B T DayanandaSagar College of Engineering Department of Civil Engineering, Bangalore
85.	286/2021/RE	14/12/2021	Development of deep learning algorithms using high resolution remote	Dr.Amit Kumar Gorai NIT Rourkela,Odisha

			sensing data for ecosystem (air, water, land, vegetation) monitoring in coal mining region to assess the effectiveness of progressive and final coal mine closure plans.	
86.	290/2021/RE	13/12/2021	Synthesis of Bioformulation for mitigation of heavy metals and plastics from E-waste	Dr.AnkitaChatterjee REVA University School of Applied Sciences, REVA University, Rukmi
87.	231/2021/RE	10/12/2021	Development of Sustainable concrete using Industrial by-products for Reinforced concrete wall construction in high rise structures using optimization Techniques	Dr.J.Jeyanthi Mepco Schlenk Engineering College, Sivakasi
88.	170/2021/RE	10/12/2021	Response of Mangroves to differential sedimentation rates and Accretion/Erosion events in Tamil Nadu Coast	Dr. M. Suresh Gandhi University of Madras Chennai
89.	283/2021/RE	02/12/2021	Evaluation of the Microplastics in the Water, Soil and Sediment Around Water Falls and Water Bodies of Himachal Pradesh and Their Bioremediation Strategies	Prof. Tanu Jindal Amity Institute of Environmental Toxicology Safety and Management Noida
90.	255/2021/RE	11/11/2021	Non-Contact Dynamic Response Based System Integrated With AI To Monitor Susceptibility Of Trees To Forest Fires	Prof. Bishakh Bhattacharya Indian Institute of Technology Kanpur Indian Institute of Technology, Kanpur
91.	268/2021/RE	10/11/2021	Health Risk Assessment of Heavy Metal of edible Fresh water Fishes of Tamiraparani River and Bioremediation of soil heavy metals at a contaminated river sites of Tirunelveli and Tuticorin District, Tamilnadu using In-vitro tissue culture species of Pterisvittata (Fern).	Dr. M.Maridass Fisssds Research Institute of Conservation Ecology Tirunelveli
92.	204/2021/RE	09/11/2021	Design of self-supervisory target painting drone	Dr.SrideviAnnathurai M.Kumarasamy College of Engineering Thalavapalayam,
93.	207/2021/RE	09/11/2021	Design and Implementation of Food Quality management system using	Prof. Meivel S M.Kumarasamy College of EngineeringKarur

			IoT Agricultural Drone and Multispectral images	
94.	262/2021/RE	31/10/2021	Standardization and Demonstration of Sustainable Pre-Effluent Treatment (PET) Technology of Tannery Wastewater through Advanced Electrochemical Techniques	Dr. P Saravanan CSIR - Central Leather Research Institute (CLRI) Sardar Patel Road, Adyar, Chennai
95.	246/2021/RE	27/10/2021	Responsive nanogel materials as an efficient absorbent for removal of heavy metals from contaminated water sources in the mining area of Keonjhar, Odisha	Dr.Lopamudra Ray KIIT University School of Biotechnology, KIIT University, Patia,
96.	243/2021/RE	23/10/2021	Investigation of new suite of about 80 chemical tracers present in the ambient fine particulate matter to improve molecular level understanding of Delhi winter fog	Dr. B Praphulla Chandra, Sri SathyaSai Institute of Higher Learning, Anantapuram
97.	195/2021/RE	21/10/2021	Experimental investigation and artificial neural network modelling on treated wastewater performance on fresh, hardened and durability properties of portland cements	Prof. Gude Reddy Babu, SashadriRaoGudlavalleru Engineering College Andhra Pradesh
98.	250/2021/RE	15/10/2021	Studies on the effect of transfer of organic agro-technique in saving the coastal ecosystem of mangrove areas of the sunderban in westbengal on the basis of environmnetal impact	Dr SomnathSaha Community For Social Work, West bengal
99.	226/2021/RE	13/10/2021	Genetic alternation in a human population exposed to e-waste in Delhi & NCR	Dr.Nareshkumar Maulana Azad Medical college New Delhi
100.	214/2021/RE	07/10/2021	Biofuel production from Nonedible Seeds in Javadhu hills for Livelihoods and Power Generation by using small-scale pedal-driven processor and creating income from value added by-products for Scheduled Tribes	Dr.Ranjitha J Vellore Institute of Technology, VIT University, Tamil Nadu
101.	225/2021/RE	07/10/2021	Sustainable and Eco friendly Resilient farming for small and marginal rice	Dr.D.KumariManimuthuV eeral Annamalai University,

			growing farmers in the coastal tracts of Cauvery delta region	Tamil Nadu
102.	227/2021/RE	01/10/2021	Exploration and identification of date palm cultivars for sodic and alkali-water irrigated soils - Farmers' participatory approach	Dr. Raj Kumar Central Soil Salinity Research Institute Karnal
103.	164/2021/RE	30/09/2021	Acquisition of Geopolymers from Industrial By-products and Their Application for Sequestration of Heavy Metal Ions: Two-fold Environmental Remediation Approach	Dr. Rajesh Patidar Advanced Materials and Processes Research Institute Madhya Pradesh
104.	228/2021/RE	28/09/2021	Synthesis of Novel Metal Oxides/Carbon Nanocomposites with Different Morphologies and Their Photocatalytic/PhotoelectrochemicalEco-friendly Applications	Prof. Dr.P.Kamaraj Bharath Institute of Higher Education and research, Selaiyur, Chennai
105.	223/2021/RE	24/09/2021	Systematics of micro leafhopper tribe Empoascini (Cicadellidae: Hemiptera) from India	Dr.Srinivasa N Banaras Hindu University Ajagara Varanasi Uttar Pradesh
106.	230/2021/RE	23/09/2021	Production of biochar from a blend consisting of prosopisjuliflora biomass with polyethylene used as fuel and to amend soil characteristics	Dr. D. Madhavan MepcoSchlenk Engineering College Sivakasi
107.	125/2021/RE	14/09/2021	Bio Rehabilitation of Coal mine Areas with the use of Bio inoculants in Chhattisgarh: A Potential Approach for Carbon Sequestration and Bio-prospecting of Microbes	Dr.Bhavana Dixit Guru GhasidasVishwavidyalaya Bilaspur
108.	205/2021/RE	09/09/2021	Smart Drainage Clogs Monitoring and Detection System Using IoT	Dr. S.P. Rajaveni Mepco Schlenk Engineering College, Sivakasi.
109.	220/2021/RE	07/09/2021	Efficacy of aerial and space technology application for wildlife habitat assessment: a case study on sangai habitat in Keibullamjao National Park, Manipur using Unmanned Aerial Vehicle (UAV)	Dr.Pebam Rocky North Eastern Space Applications Centre (NESAC) Department of Space, Government of India Umiam
110.	217/2021/RE	06/09/2021	Eco-Sensitive Western Ghats & Biodiversity	Dr.DilipUkey Maharashtra National

				Law University Mumbai.
111.	183/2021/RE	06/09/2021	Biodiversity and augmentation of entomopathogenic nematodes in Kaziranga National Park	Dr.Gitanjali Devi Assam Agricultural University, Jorhat.
112.	219/2021/RE	06/09/2021	Inferential measurement of landscape transformation affecting the ecological and economical sustainability of Dudhwa national park wildlife	Dr.SubhadraRajpoot Amity University, Greater Noida.
113.	211/2021/RE	04/09/2021	Decreased tank water potential and flood risk assessment for Tirupati-implications of urbanization and land use changes	Dr.RangariVinay Ashok, SreeVidyanikethan Engineering College, Chittoor
114.	187/2021/RE	31/08/2021	Seed dispersal by birds and bats in disturbed and protected areas and their effectiveness in germination and forest regrowth	Prof. Thiruchenthil Nathan, Periyar University Salem
115.	209/2021/RE	28/08/2021	Spatiotemporal Modelling of Surface Urban Heat Island and its Impact Assessment on Land & Water Resources of Various Cities of Uttarakhand	Dr. Deepak Kumar GBPUAT, Pantnagar Pantnagar, Uttarakhand
116.	201/2021/RE	18/08/2021	Status, delineation and sustainable mitigation options of Arsenic Toxicity in rice in Eastern India	Dr.RubinaKhanam ICAR National Rice Research Institute Cuttack
117.	197/2021/RE	18/08/2021	Economic and environment-friendly utilization of steel industry waste to reclaim acid soil in rice and rehabilitation of mine spoil areas	Dr.Pratap Bhattacharyya ICAR_National Rice Research Institute Bidydharpur ICAR-NRRI, Cuttack, Odisha, India
118.	189/2021/RE	16/08/2021	Development of Cement Free Tiles for Zero Energy Buildings	Dr. N.ANUJA MepcoSchlenk Engineering College , Sivakasi
119.	140/2021/RE	14/08/2021	Climate Change Resilient Strategies for sustainable livelihoods in Tea Plantations: A comparative study of North East and South Indian Tea	Dr. Sarbani Mukherjee, Indian Institute of Plantation Management Bangalore
120.	200/2021/RE	13/08/2021	Soil Diatom community across land uses: understanding the soil diatom community and its application in soil quality monitoring in the Western	Dr.KarthickBalasubramanian Agharkar Research Institute Pune

			Ghats.	
121.	180/2021/RE	05/08/2021	Slope stability analysis and prediction modeling for Landslides through geotechnical study in Landslide zone (Coonor region) of The Nilgiris district using GIS and Remote Sensing techniques	Dr.Krishna Kumar Rathinam Technical Campus, Coimbatore
122.	138/2021/RE	19/06/2021	Extraction of Silica from Rice Husk Ash- Process Scale up and Optimization	Dr.Seema Sharma Maharaja Ranjit Singh Punjab Technical University Bathinda, Punjab
123.	59/2021/RE	28/02/2021	Study on diversity, Status and Conversational Strategies of Avifauna of PirPanchal Range of Himalayas of Jammu & Kashmir.	Dr.Ajaz Ahmed Wani GDC Doda NagriDoda
124.	355/2020/RE	30/11/2020	Development of biodiversity park at Aligarh Muslim University, Aligarh	Prof. Prof. NafeesA. Khan, Aligarh Muslim University, Aligarh UP
125.	399/2018/RE	23/09/2019	Effect of soil microarthropods on litter decomposition and nutrient mineralization in a sub-tropical forest ecosystem at Mokokchung, Nagaland,India	LakhminandanKakati Nagaland University,Hqs. Lumami
126.	73/2018/RE	31/07/2019	Survey, Documentation of Disaster Resistant of Heritage Plants and Sacred Grooves for Conservation of Coastal shelter belt of Odisha	Prof. Dr. Asutosh Debata Centre for Environmental Studies, Forest and Environment Dept., Govt. of Odisha,

3.2 No. of revised proposal received which has been placed in the earlier meetings or internal discussion: - **26 projects**

S.No.	Registration No.	Title of the project	PI /Institution	Comments of TFAC	Remarks
3.2.1	230/2020/RE	Delving Microbial Diversity in The Nilgiris Shola Forest to Augument microbial consortia for efficacious regeneration of Shola tree species	Dr. M. Tilak Forest College and Research Institute Tamil Nadu	The committee observed that the project requires revision, as the PI is an agricultural Microbiologist and not familiar with tree species. The PI should have a Co-PI who is familiar with the restoration of degraded Sholas. The PI should contact Dr.Vasant Vasco of Ooty, who is an expert on restoration of Sholas, for collaboration. The revised proposal will be further considered in the next meeting of the committee.	Earlier taken up in the 19 th TFAC Meeting. Accordingly, a revised proposal was received.
3.2.2	41/2020/RE	Production of Sustainable High Impact Strength and Self- Healing Paver Blocks using Industrial Waste as a Green Concrete	Dr. Muthukannan Department of Civil Engineering Kalasalingam Academy of Research and Education Tamil Nadu	The Committee observed that since the PI of project no.2 and the PI of project no.4 are from the same institute but dealing with different waste material. The committee suggested that both the PIs should submit a combined integrated project of waste utilization after getting permission from Central Pollution Control Board and State Pollution Control Board with respect to utilization of incinerated biomedical waste ash.	Earlier taken up in the 19 th TFAC Meeting. Accordingly, a revised proposal was received.
3.2.3	245/2020/RE	Extraction of mercury and rare-earth elements from discarded fluorescent lamps	Dr. Nikhil Dhawan Indian Institute of Technology, Roorkee		The Ministry has internally returned the proposal due to absence of certificate. Now, the PI has upload the revised

					certificate.
3.2.4	109/2021/RE	Valuation of mangrove ecosystems in Mumbai Metropolitan Region: Implications for economic, developmental, ecological and climatic benefits and recommendations for ecosystem conservation	Prof. Trupti Mishra Indian Institute of Technology Bombay Mumbai	The Committee suggested that the PI should also take into account the services of ecological significance for valuation of mangroves. The Committee also pointed out that primary data have to be collected for measuring the mitigation and adaptation potential of mangroves to climate change. The PI should revise the project accordingly and resubmit it for further consideration.	Earlier taken up in the 19 th TFAC Meeting. Accordingly, a revised proposal was received.
3.2.5	373/2018/RE	Development of a sustainable hybrid bio-physical method for palm oil mill effluent (POME) treatment	Karthik Balasundaram Visvesvaraya National Institute of Technology Nagpur	The committee suggested that the comments received from CPCB be sent to PI for his responses and revise the project keeping in view the suggestions made by CPCB and re-submit it for further consideration.	Earlier taken up in the 19 th TFAC Meeting. Accordingly, a revised proposal was received.
3.2.6	16/2021/RE	Climate Change and Surface Waters Security on Wetland Ecosystems over Punjab Region Based on Remote Sensing Models and Techniques for Sustainable Management	Dr. Mohit Punjab Remote Sensing Centre Ludhiana	The committee suggested that the Project requires revision on account of the following:- <ul style="list-style-type: none"> • taking account of State Action Plan on Climate Change (Punjab) submitted to MoEFCC • consultation with State Wetland Authority and their action plan and reports • providing list of site(s) for in-situ instrumental observations (sources) of meteorological parameters in the state with timeline of historical data availability • Budget is adequate for this project • Wetlands characterisation and dynamics study should 	Earlier taken up in the 19 th TFAC Meeting. Accordingly, a revised proposal was received.

				<p>be enhanced with SAR and hyperspectral satellite data applications.</p> <p>Investigators should bring out the potential of above mentioned technologies.</p> <p>The PI may revise the project as per the suggestion of the Committee and re-submit it for further consideration in the next meeting.</p>	
3.2.7	86/2021/RE	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	The committee suggested that the PI should include agroforest ecosystem and aquaculture and also evaluate the nutrients cycle and the livelihoods generated by ecosystems. The PI should revise the project and re-submit it for further consideration by the Committee.	Earlier taken up in the 19 th TFAC Meeting. Accordingly, a revised proposal was received.
3.2.8	141/2021/RE	Assessment of ecosystem services for conservation of an endemic and endangered fruit bat, <i>Latidenssalimalii</i> in KalakadMundanthurai Tiger Reserve (KMTR), Tamil Nadu, India	Dr.Suthakar Isaac S St Johns College, Tamil Nadu	The committee observed that PI should focus on the factors that make the species endangered. The Committee pointed out that to minimise public health risks due to microbiome of the bat, the PI should involve a virologist and a doctor in the project. Thus the PI should revise the project and re-submit it for further consideration by the Committee.	Earlier taken up in the 19 th TFAC Meeting. Accordingly, a revised proposal was received.
3.2.9	82/2021/RE	Molecular Assessment of diversity pattern of Clitellata (Annelida) including exotic / invasive assemblage and their association with soil factors in hotspots of	Prof.Shweta Yadav Dr Harisingh Gour Vishwavidyalaya MP	The committee suggested that the PI should restricts studies to two or three objectives and select one study from Northeast and Western Ghats. The PI should select only one area from North East and Western Ghat. However,	Earlier taken up in the 19 th TFAC Meeting. Accordingly, a revised proposal was received.

		biodiversity of India.		the Committee also suggested that the project be referred to Zoological Survey of India for comments. The proposal alongwith comments will be placed in the next meeting for further consideration.	
3.2.10	39/2021/RE	Ecosystem Services Valuation for Natural Capital Accounts: A case study of Nilgiri Biosphere Reserve	Dr.MBalasubramanian, Bangalore	The objectives are well defined and the outcome of this project may help in achieving sustainable developmental goals at the local level. However, the committee suggested that the valuation of the ecosystem services should be redesigned at the market prices for non-timber forest products at the district level. Consequently, the PI may revise the project and re-submit it for further consideration.	Earlier taken up in the 19 th TFAC Meeting. Accordingly, a revised proposal was received.
3.2.11	109/2020/RE	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	Due to absence of the Certificate of recognition the project was not taken up for consideration by the Committee and the PI was asked to resubmit the proposal along with all requisite documents including Certificate of Recognition as mentioned in the online portal for consideration in the next meeting of TFAC.	Earlier taken up in the 18 th TFAC Meeting. Accordingly, a revised proposal was received.
3.2.12	229/2020/RE	Development of microwave irradiated rice straw for animal feeding to combat straw burning issue and increase productivity.	Dr. Rajesh Kumar, LalaLajpat Rai University of Veterinary and Animal Sciences Hisar, Haryana	The committee desired to examine the work done by PI as evident by publications before taking decision on the project and PI was asked to send the publications to all the members by e-mail. The project was, therefore, deferred.	Earlier taken up in the 18 th TFAC Meeting. Accordingly, a revised proposal was received.
3.2.13	144/2020/RE	A novel framework for	Dr.Bhadra driRaghura	Due to absence of the Certificate of recognition	Earlier taken up in the 18 th

		pedestrian health index based on pedestrian exposure to traffic emissions	mKadali National Institute of Technology Warangal, Warangal, Kazipet, Telangana	the project was not taken up for consideration by the Committee and the PI was asked to resubmit the proposal along with all requisite documents including Certificate of Recognition as mentioned in the online portal for consideration in the next meeting of TFAC.	TFAC Meeting. Accordingly, a revised proposal was received.
3.2.14	201/2020/RE	Green Production of Nano-Concrete from Fly Ash and Construction Waste: Experimental studies, modeling through Artificial Intelligence and in-situ application	Dr.Jagannath Roy Central University of South Bihar Gaya	The PI could not be able to give presentation due to problem in internet connectivity at his end. The Committee decided that the project be considered in the next meeting of TFAC.	Earlier taken up in the 18 th TFAC Meeting.
3.2.15	228/2018/RE	An innovative eco-friendly recycling process for recovery of precious metals and other rare metals from e-waste.	K Jayasankar CSIR-National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram	The Committee after discussions, decided that objectives be revised as given below: i) Develop low temperature plasma and microwave based process to recover the metalvalue, glass fibre and activated charcoal from waste PCBs. Recovery and concentration of rare earth metals (La, Nd, Sm, Ce, Pr) and key preciousmetals such as gold, silver, platinum and palladium in treated PCBs. iii) Recycling of non-metallic materials such as polycarbonates and carbon from e-waste for their profitable use. iv) In-depth analysis of dioxins and furans from these	Earlier taken up in the 3 rd TFAC Meeting. Accordingly, a revised proposal was received.

				<p>particulates/gaseous releases and from liquid wastes during pyrolysis and their precursors to develop optimal operating windows for reducing harmful emissions from a wide variety of waste PCBs.</p> <p>The Committee also suggested that Microwave kiln may be deleted. The Committee sought responses from PI on the points mentioned above before considering it further for funding.</p>	
3.2.16	106/2020/RE	Status, ecology and conservation threats on rails (Rallidae) with special reference to climate change in selected wetlands of Tamil Nadu.	Dr.N. EZHILARA SI Government Arts College, Coimbatore	The committee observed that methodology provided is weak and the project requires revision. The Committee recommends that the PI may consult an expert working at Salim Ali Centre for Ornithology and Natural History (SACON) for revision and resubmit for further consideration by TFAC.	Earlier taken up in the 18 th TFAC Meeting. Accordingly, a revised proposal was received.
3.2.17	114/2020/RE	Investigating the Gamma Ray Shielding Characteristics of Red Mud Originate from Various Locations of India	Dr.ShabiT hankarajS alammal CSIR-Advanced Materials and Processes Research Institute Habibganj Naka	<p>The Committee observed that project may give a technology for use of red mud in fabricating gamma ray shielding blocks. Since, the PI has no expertise in radioactivity, the committee advised the PI to involve an expert from BARC. About 45% of the project budget is meant for the purchase of Equipment. The PI should make efforts to get such funding from CSIR itself or industrial partners.</p> <p>The Committee suggested PI to revise the project and reduce</p>	Earlier taken up in the 18 th TFAC Meeting. Accordingly, a revised proposal was received.

				the budget by excluding the equipment grant and resubmit it for further consideration by TFAC. The PI was also asked to explore the partial funding and sponsorship by the user agency.	
3.2.18	238/2020/RE	Studies on Biodiversity and Management of Plantation Crop Combination Agroforestry System and adjoining Natural Forests in Nilgiris, Western Ghats, Tamil Nadu	Dr. P.Rajendran TamilNadu Agricultural University, Coimbatore	The committee observed that it is not clear that what permutation and combinations of species are important from commercial/industrial point of view and also from socio-economic point of view. Proposal does not clearly mention the challenges facing plantations from forestry point of view and the indicator species (insects etc.) in the ecosystem. Besides phytochemical characterisation, it is also required to evaluate the role of mycorrhiza for integrity of ecosystem. It is not clear that what crop combination will increase or decrease the invasive species. It was decided that PI should revise the proposal in the light of above comments and resubmit it for further consideration by TFAC.	Earlier taken up in the 18 th TFAC Meeting. Accordingly, a revised proposal was received.
3.2.19	123/2020/RE	Some studies on usage of Phase Change Material on Thermal Comfort of buildings	Dr.S.Muthuvel Kalasalingam Academy of Research and Education Krishnankoil, Tamilnadu	The PI could not be able to make presentation due to problem in the internet connectivity at his end. It was decided that the project should be considered in the next meeting of TFAC.	Earlier taken up in the 18 th TFAC Meeting.
3.2.20	184/2020/RE	Development of potential low-cost wood substitute panels using	Mrs.N.ChellaKavitha MepcoSchlenk Engineering	The Committee observed that similar proposals have been recommended by this committee earlier. The	Earlier taken up in the 18 th TFAC Meeting. Accordingly,

		Industrial waste for forest conservation and environmental protection	g College, Sivakasi	PI should review the literature and bring out clearly how the present studies are different from the studies already carried out. The PI should focus on the development of technology package and demonstration of the technology package developed. The PI should revise the proposal in the light of above comments and resubmit it for further consideration by TFAC.	a revised proposal was received.
3.2.21	148/2020/RE	Mitigation measures for air pollutants and heat islands by urban forest management – Quantification of the present scenario and extrapolation of future prospects.	Dr.BhanuP andey, Central Institute of Mining and Fuel Research Dhanbad	The committee after deliberations observed that the evaluation of “Heat Island Effect” of Dhanbad Region is not clear. The committee also decided that the PI may focus his study on the title of his study and revise his proposal to provide specific details in terms of the objectives methodology and model proposed including its validation, expected output, expected outcome , thereof for further considerations of the revised project proposal.	Earlier taken up in the 14 th TFAC Meeting. Accordingly, a revised proposal was received.
3.2.22	50/2021/RE	Creation of road accidents (high severity) social cost model for Madurai city	Mrs.Bharathi S.Sethu, Institute of Technology, Kariapatti	Required recognition certificate of the Institute.	The Ministry has internally returned the proposal due to absence of certificate. Now, the PI has upload the revised certificate.
3.2.23	62/2021/RE	Application of arsenic and chromium tolerant bacteria isolated from Gangetic plains of Bihar for	Prof. Akhileshwari Nath S.S. Hospital and Research	Required recognition certificate of the Institute.	The Ministry has internally returned the proposal due to absence of certificate.

		environment cleaning and testing its bioremediation potential for welfare of human health	Institute Patna		Now, the PI has upload the revised certificate.
3.2.24	70/2021/RE	Converting waste cooking oil to Biodiesel Using Green Catalyst and Catalyst Regeneration Studies	Prof.A.Gee thaBhavan i Noida Internation al University, Noida	Required recognition certificate of the Institute.	The Ministry has internally returned the proposal due to absence of certificate. Now, the PI has upload the revised certificate.
3.2.25	204/2020/RE	Study to increase biofertilizer production by 20% using waste water for dual benefits: soil fertility and water treatment	Dr. P. S. Vijaya Kumar institute of Nanoscience and Technology Mohali	Due to absence of the Certificate of recognition the project was not taken up for consideration by the Committee and the PI was asked to resubmit the proposal along with all requisite documents including Certificate of Recognition as mentioned in the online portal for consideration in the next meeting of TFAC.	Earlier taken up in the 18 th TFAC Meeting. Now, the PI has upload the revised certificate.
3.2.26	58/2022/RE	Study and detailed analysis of sediments of Indian part of Sundarbans delta in connection with the trend of sea level change to deduce the biosphere-eco-climatic changes since late Quaternary and also the future vulnerability prediction	Dr.ArghaS arkar Bangabasi College, Kolkata	Required 'signed declaration' certificate of the Institute as per the prescribed format.	The ministry has requested internally to update and upload the "Signed Declaration" instead of letter of agreement in the main application. Now, the PI has upload the same.

3.3 List of Projects which placed in the earlier TFAC Meeting but revised proposal yet to be received: **32 cases**

S.No.	Registration Id	Title of the Project	PI /Institution and Address	Remarks
3.3.1	106/2021/RE	Analysis of Heavy Metals and Pesticide Residues in Soil and Water Samples of Selected Districts of Andhra Pradesh	Dr. Venkata Kanaka Srivani Maddala Vignans Foundation for Science Technology and Research deemed to be University Andhra Pradesh	Earlier taken up in the 19 th TFAC Meeting. The revised proposal yet to be received. The committee observed that the project is simply a monitoring of soils and water samples. There is no novelty in the project in the absence of correlative studies with new disease observed in local population. The project in its present form is not suitable for grant-in-aid. The PI may formulate new proposal by including a toxicologist and a medical doctor/ faculty as co-investigators and the same may be submitted to the Committee.
3.3.2	89/2021/RE	Climate change impacts on the Alpine ecosystem of Sikkim Himalaya	Dr.Sushen Pradhan Department of Science and Technology Gangtok, East Sikkim	The ministry has requested internally to submit the Registration Certificate of Sikkim, State Council of Science and Technology, Government of Sikkim. The revised proposal yet to be received.
3.3.3	44/2021/RE	Understanding the movement patterns, landscape utilization patterns and hibernation behavior of Asiatic black bear in Himachal Pradesh for bear-human conflicts management	Dr. Lalit Kumar Sharma, Zoological Survey of India Kolkata	The Ministry has requested internally to submit the registration certificate of the institution. The revised proposal yet to be received.
3.3.4	24/2021/RE	Removal of heavy metals by using natural az`z`dsorbents	Dr.Shashikant Mise HKEs PDA college Engineering Gulba	The ministry has requested internally to submit the registration certificate of the institution. The revised proposal yet to be received.

3.3.5	376/2020/RE	Scientific validation of a widely accepted taxonomic marker, COI across the animal taxa in barcoding for species identification	Prof. S. Janarthanan University of Madras Madras	The ministry has requested internally to submit the registration certificate of the University by UGC, as the PI had uploaded certificate issued by HoD. The revised proposal yet to be received.
3.3.6	337/2020/RE	Plausible role of Bacteriophages present in the High Altitude Himalayan River waters	Dr. Angayar kanni J Bharathiar University, Coimbatore	Earlier Proposal has taken up in the 18 th TFAC Meeting. PI could not be able to make presentation due to problem in internet connectivity at his end. The project be placed in the next meeting of TFAC for consideration.
3.3.7	333/2020/RE	The present status of laterite habitats in Kerala: A Pilot study to establish Laterite Biodiversity National Park in Kerala, India.	Mr. Shijith P P Mahatma Gandhi Government Arts College Mahe India	Earlier Proposal has taken up in the 18 th TFAC Meeting. The Committee has requested to submit recognized certificate of the institution issued by UGC. The revised proposal yet to be received.
3.3.8	307/2020/RE	Restoration of the Upper Reaches of River Teirei under the Dampa Tiger Reserve/Sanctuary using Biosystems Engineering	Dr. R Zonunsanga Mizoram University Tanhril, Aizawl	Earlier Proposal has taken up in the 18 th TFAC Meeting. PI could not be able to make presentation due to problem in internet connectivity at his end. It was decided that the project be considered in the next meeting of TFAC.
3.3.9	276/2020/RE	Natural distribution, ecological niche modelling, selection of CPTs, its evaluation and nursery production of sandal (Santalum album Linn.)	Dr. Binu N. Kamalalbhanan College of Forestry, Kerala	Earlier Proposal has taken up in the 18 th TFAC Meeting. PI could not be able to make presentation due to problem in internet connectivity at his end. It was decided that the project be considered in the next meeting of TFAC.
3.3.10	221/2020/RE	Development of carbonless ECO cementitious Structural elements via synergistic	Dr. R. Anuradha SNS College of Technology Coimbatore	Earlier Proposal has taken up in the 18 th TFAC Meeting. Due to absence of the Certificate of recognition the project was not taken up for consideration by the

		Utilization of sustainable industrial waste and Nano material		Committee and the PI was asked to resubmit the proposal along with all requisite documents including Certificate of Recognition as mentioned in the online portal for consideration in the next meeting of TFAC.
3.3.11	190/2020/RE	Development of biodiversity park at Aligarh Muslim University, Aligarh	Prof. Nafees A Khan Aligarh Muslim University, Aligarh	Earlier Proposal has taken up in the 18 th TFAC Meeting. Due to absence of the Certificate of recognition the project was not taken up for consideration by the Committee and the PI was asked to resubmit the proposal along with all requisite documents including Certificate of Recognition as mentioned in the online portal for consideration in the next meeting of TFAC.
3.3.12	187/2020/RE	Assessment of Economic Valuation of Ecosystem Services for Conservation and Management of Biodiversity in Karnataka State Forest	Dr. Vilas Jadhav Institute for Social and Economic Change Naagarabhaavi	Earlier Proposal has taken up in the 18 th TFAC Meeting. The Committee observed that proposed methodology is not clear. The study area comes under Protected Areas and hence requires permission from the Field Directors for the proposed study. The Committee suggested that PI should focus on only one National Park and refine the methodology. The PI may also include an expert in ecological economics as Co-PI. It was decided that the PI should revise the proposal in light of above comments and resubmit the revised proposal for further consideration by TFAC.
3.3.13	153/2020/RE	Exploration of avifaunal diversity nexus with biotic and abiotic environment of Karaivetti Bird Sanctuary, Tamil Nadu towards developing of ecological	Dr. M. Selvamurugan Agricultural College and Research Institute Eacha	Earlier Proposal has taken up in the 18 th TFAC Meeting. The PI could not be able to make presentation before the Committee due to problem in internet connectivity at his end. It was decided that the Project should be considered in the next meeting of TFAC.

		resilience concepts for Conservation		
3.3.14	150/2020/RE	Identification & Assessment of pesticide contaminated sites in Maharashtra: Soil Health Monitoring, Stakeholder analysis & Modelling	Dr. Hema Diwan National Institute of Industrial Engineering Mumbai	<p>Earlier Proposal has taken up in the 18th TFAC Meeting.</p> <p>Due to absence of the Certificate of recognition the project was not taken up for consideration by the Committee and the PI was asked to resubmit the proposal along with all requisite documents including Certificate of Recognition as mentioned in the online portal for consideration in the next meeting of TFAC.</p>
3.3.15	11/2020/RE	Biodiversity assessment, ecological analysis and conservation management of dayingering memorial wildlife sanctuary in arunachalpradesh	Dr. Amal Bawri North Eastern Institute of Folk Medicine Arunachal Prad	<p>Earlier Proposal has taken up in the 15th TFAC Meeting.</p> <p>The committee noted that the Botanical survey of India has a Zonal office in Arunachal Pradesh and the BSI Zonal office could be associated with the study and the PI should involve BSI in the present study. In addition the field director of Daying Ering Wildlife sanctuary and the state Forest Department need to be associated in the project. The committee also noted that the PI has started in the application that the North Eastern institute of folk medicine is an autonomous institute of Ministry of Ayush, the PI may furnish details of the autonomous status of the institute.</p> <p>The committee after deliberation s decided that the PI should revise the proposal in the light of above suggestions and the revised proposal will be placed in the committee for further consideration.</p>
3.3.16	487/2018/RE	Management of Parthenium in degraded forest in North-East region of India	Prof. Prof. N. Irabanta Singh Manipur University Imphal	<p>Earlier Proposal has taken up in the 15th & 19th TFAC Meeting.</p> <p>The Committee observed that the project in its present form</p>

		through replacement by native grasses and underwood species		cannot be recommended and the project should be revised on the following lines: - <ul style="list-style-type: none"> • The PI should select 50 acres in forest for this project. • Duration should be one year. • Cost should not exceed Rs. 5 lakh. • Based on the progress achieved, the project may be extended for another year after review. • The eligibility of PI to receive the grant under the Scheme should be ascertained.
3.3.17	424/2018/RE	Forest products trade scenario in India	Dr. Manmohan Yadav, Indian Institute of Forest Management Bhopal	Earlier Proposal has taken up in the 14 th Meeting. The committee recommended that the proposal may be revised in consultation with the Research and Training Wing (RT) Division of the Forest wing of MoEFCC and keeping in view of the suggestions made by the committee and resubmitted for further consideration. The PI had submitted revised proposal in the correspondence section instead of main application.
3.3.18	393/2018/RE	Fabrication, Vibration and Wear studies on Cotton waste and Flyash based Green Composite	Dr. V. Arumugaprabu Kalasalingam Academy of Research and Education KrishnankoilVirudhunagar	Earlier Proposal has taken up in the 19 th TFAC Meeting. The committee mentioned recommendation of his project subject to submit the MOU with industry to the ministry.
3.3.19	88/2018/RE	Studies on habitat degradation and restoration of specific Elephant habitats and elephant corridors including assessment of land use pattern for population	Dr. Narayan Sharma Cotton University Guwahati	Earlier Proposal has taken up in the 5 th TFAC Meeting. The Committee desired that Ministry should obtain the comments of Shri S.P. Vashisht, Chief Conservator of Forests, Forest Department, Government of Assam. The Committee, after deliberations, decided that the PI should

		management and conflict mitigation across the Upper Brahmaputra Valley		revise/modify the project as per the aforesaid observations.
3.3.20	266/2018/RE	Assessing effects of linear infrastructure on wildlife: Landscape level characterization and spatial prioritization for impact mitigation	Malvika Onial Wildlife Institute of India, Deharadun	Earlier Proposal has taken up in the 1 st TFAC Meeting. The Committee after deliberations desired that the project be modified to study PAs and their ESZs of one State only and reduce the cost of the project for all the components such as Travel, equipment, fellows, etc and resubmit for reconsideration.
3.3.21	252/2018/RE	Evaluating the ecosystem services of mangroves and seagrasses in Andaman and Nicobar islands with special reference to climate change	Dr. K. Ramesh Wildlife Institute of India Deharadun	Earlier Proposal has taken up in the 1 st TFAC Meeting. The Committee after deliberations desired that the PI rework the project after discussions with all concerned as suggested above and based on the aforesaid suggestions/observations and submit for reconsideration.
3.3.22	249/2018/RE	Assessment of the status of endemic and threatened plants across the protected areas of Arunachal Pradesh	Dr. Navendu Page Wildlife Institute of India, Deharadun	Earlier Proposal has taken up in the 1 st TFAC Meeting. The Committee was of the view that the WII study should be in collaboration with BSI so that there is no overlapping/duplication of work. The Committee, after deliberations, recommended the project for funding subject to BSI being made as co-PI/co-institution of the project. In addition, the State Forest Department must also be involved. The Committee after deliberations recommended for funding of the project incorporating these revisions.
3.3.23	254/2018/RE	Engaging community in conservation of	Dr. Abhijit Das Wildlife Institute of India	Earlier proposal has taken up in the 1 st & 6 th TFAC Meeting. The Committee after

		Covert Species in Meghalaya, Northeast India.	Dehradun	deliberations decided that the Project proposal be sent to BSI and ZSI for their comments and meanwhile the PI should relook the proposal for innovation for its further consideration.
3.3.24	251/2018/RE	A landscape-level assessment of elephant occupancy, habitat connectivity and human-elephant conflicts across Terai-Arc landscape for population management and conflict mitigation	Dr. Bivash Pandav Wildlife Institute of India, Dehradun	Earlier proposal has taken up in the 1 st TFAC Meeting. The Committee desired that the views of Project Elephant be obtained and attached with the revised project and on whether such a project/similar project is under implementation. The Committee also desired that the genetic study component be removed from the study as it is being done in greater depth by another group funded by DBT and resubmit the modified proposal for funding.
3.3.25	268/2018/RE	A study the effectiveness of relocation and rehabilitation of programmes of communities from PAs and TRs	Dr.Ruchi Badola, Wildlife Institute of India, Dehradun	Earlier proposal has taken up in the 1 st TFAC Meeting. The Committee requested PI to examine also how dovetailing of other schemes/programmes of Central and State Governments has helped in the relocation. The Committee requested the PI to take up one TR of a State after detailed consultations with the CWLW of that State, and revise the expected outputs and outcomes of the project in the light of above comments and resubmit the proposal for funding. Letter of the CWLW should also be attached with the revised project.
3.3.26	194/2018/RE	Assessment of carbon stock of the restored and natural mangroves of Pichavaram,	Dr.V.Selvam MS Swaminathan Research Foundation, Chennai	The Ministry has requested internally to revise the details of Co-PI, Breakup of the cost of the project and Location.

		Tamil Nadu		
3.3.27	238/2018/RE	Ecology of selected high-altitude wetlands of India for developing Conservation and Management Plans	J.A. Johnson Wildlife Institute of India, Dehradun	<p>Earlier proposal has taken up in the 1st TFAC Meeting.</p> <p>The Committee after deliberations recommended the project for funding subject to modification of the project in the light of comments made by the Committee:</p> <p>i) restriction of studies to two high altitude natural wetlands in Central Himalaya, Uttarakhand and</p> <p>(ii) reduce the budget substantially. The revised proposal may be submitted for funding.</p> <p>Accordingly, Revised proposed received in the correspondence section instead of main application.</p>
3.3.28	209/2018/RE	To develop strategies for conservation and sustainable use of medicinal plants through traditional methods and agriculture practices	Dr. Ashish Kar The Energy and Resources Institute, New Delhi	The Ministry has requested internally to revise the details of Co-PI, Breakup of the cost of the project and Location.
3.3.29	189/2018/RE	Impact of atmospheric deposition and roof materials on harvested rainwater quality	G. P. Shiva Shankara Dayananda, Sagar College of Engineering	The Ministry has requested internally to revise the details of Co-PI, Breakup of the cost of the project and Location.
3.3.30	147/2018/RE	Assessment of quality of life, ecological footprints and environmental vulnerability of selected slums of Jammu city (J&K) India	Piyush Malaviya University of Jammu Jammu Tawi	<p>Earlier Proposal has taken up in the 19th TFAC Meeting.</p> <p>The project proposal was presented by the PI before the Committee for the first time. The committee discussed at length and decided that the PI requires co-investigator with specialization with the work that has been proposed in the project. The project is multi-disciplinary in approach and require coordination with the municipal committee of</p>

				Jammu. The PI may reduce the budget by deleting equipment grant, if the instruments are already available in the University. The Committee decided that the PI may revise the project and re-submit it for further consideration in the next meeting.
3.3.31	169/2018/RE	Identification of vulnerable areas/stretches of railway and highway crossings causing elephant deaths	Kirti Singh SamajSewa Trust Rampur	The Ministry has requested internally to revise the details of Co-PI, Breakup of the cost of the project and Location.
3.3.32	133/2018/RE	Valuing forest ecosystem services and designing policies and institutional arrangements for sustainable management of forests ecosystems in southern peninsular India	Dr. Suresh Kumar Forest College and Research Institute Tamil Nadu	Earlier proposal has taken up in the 5 th TFAC Meeting. The Committee desired that studies of Dr Sukumar, Ilsc may also be consulted. The ICFRE institute in Coimbatore may also be contacted. The Committee, after deliberations, decided that the PI may revise the project on these lines and resubmit the proposal afresh for consideration of the Committee.

3.4 (A) List of projects where comments have not been received yet from other Divisions and Institutes referred in the 18th TFAC Meeting: **Total 04 cases**

S.No	Registration No	PI Name / Name of Institution and Address	Title Of The Project	Comments received from
3.4.1	211/2020/RE	Dr. S Maria Packiam, Research Guide & Assistant Professor, Environmental Sustainability Research Unit, Loyola College, Chennai	Systematics, Diversity And Conservation Of Cockroaches (Insecta: Blattodea) In Western Ghats Of Tamil Nadu, India”	Comments has been received from Director, ZSI
3.4.2	270/2020/RE	Dr. P.M. Ayyasamy, Assistant Professor Department Of Microbiology, Periyar University, PeriyarPalkalai Nagar, Salem, Tamil Nadu	“Technology Development And Bioreactor Designing For Exploitation Of Sago Mill Wastes In Connection With Biofuel And Biomanure Production”	Not received.
3.4.3	277/2020/RE	Mr. Shaji M, Assistant Professor, Dept. of Wildlife Sciences, College of Forestry, Thrissur	“Habitat Analysis And Studies On Human-Wildlife Interactions And Its Impact On The People In A Fragmented Landscape Of Attappady Block In Nilgiri Biosphere Reserve”	Not received.
3.4.4	334/2020/RE	Dr. S K Gupta, Scientist-E, Wildlife Institute of India, Dehradun	“Genetic Assessment of The Musk Deer Populations in Western Himalaya”	Not received.

(B) List of Projects which were referred to the Institutions and other Divisions etc. for comments in the 19th TFAC Meeting under R&D Scheme:18

S.No.	Project ID and Title	PI Institution	Comments require from	Comments received	Remarks
3.4.1	373/2020/RE– “Designing and demonstration of catalysis hybridized bioreactor for anaerobic biogas production by diversified waste”	Dr. ShivarajuHp, JSS Academy of Higher Education and Research, Sri Shivarathreswarana gara, Mysore, Karnataka	Professor NishitVerma, IIT Kanpur Dr. Vijay Mohan, IICT, Hyderabad for their comments	Not received.	Not received.
3.4.2	12/2021/RE– “Ecology of non Apis insect pollinators in KalakadMundanthurai Tiger Reserve (KMTR), Tamil Nadu”	SRM Institute of Science and Technology Kattanku	Professor Renee Borges, IISc, Bangalore for her comments	Not received.	Not received.
3.4.3	108/2021/RE– “Environmental Impact assessment of developmental policies on Gekkonidae family of reptiles in and around Loktak Lake, Manipur and policy prescriptions for the conservation of the same.”	Dr. Soma M. Ghorai, Hindu College, University of Delhi	Wildlife Division of the Ministry and Zoological Survey of India for comments	Not received.	Not received.
3.4.4	82/2021/RE–“Molecular Assessment of diversity pattern of Clitellata (Annelida) including exotic / invasive assemblage and their contemporary association with soil factors to restore soil quality and to mitigate soil degradation”	Prof. ShwetaYadav, Dr.Hari Singh Gour, Vishwavidyalaya (A Central University).	Zoological Survey of India for comments	Comments has been received from ZSI	It is also enlisted in the revised proposal received
3.4.5	66/2021/RE– “Identification of seagrass meadows using side scan sonar and towed camera around the east coast of South Andaman”	Prof. P.M. Mohan, Pondicherry University, R.V.Nagar, Kalapet, Puducherry	Director, National Institute of Oceanography, Goa and NRSC, Hyderabad for comments	Comments has received from CSIR-National Institute of Oceanography, Goa	Comments awaited from NRSC, Hyderabad
3.4.6	139/2021/RE – “Utilization of lignin for the production of value-added products by a metabolically	Dr. Saurabh Jyoti Sarma, Bennett University, Greater Noida	Dr. Sahoo., Imtech Chandigarh, and Dr.Apte, BARC, Bombay	Comments has been received from IIT Bombay	Comments awaited from Dr. Sahoo., Imtech

	engineered bacterium”		and Dr. Prashant, IIT Bombay for comments.		Chandigarh, and Dr. Apte, BARC, Bombay
3.4.7	132/2021/RE– “Mapping, Monitoring and management of seaweeds resources and its utilization as a component of blue carbon farming in coastal region of Tamil Nadu and Gujarat”.	Dr.(Mrs.). P. NilaRekha, Central Institute of Brackish Water Aquaculture Chennai.	National Institute of Oceanography, Goa, IIRS, Dehradun and Central Marine Research Institute, Bhavanagar	Comments has been received from and Central Marine Research Institute, Bhavanagar	Comments awaited from National Institute of Oceanography and IIRS, Dehradun
3.4.8	148/2021/RE– “Development and Evaluation of a Microbial Consortium for the Bioremediation of Pesticide-Contaminated Soil in Southern Western Ghats of Tamil Nadu”.	M. Karthikeyan, Tamil Nadu Agricultural University, Tamil Nadu Agricultural University Coimbatore	Dr. AtyaKapley, NEERI and Dr. Prashant, IIT Bombay	Comments received from IIT Bombay	Comments awaited from Dr. Atya Kapley, NEERI
3.4.9	30/2021/RE– “Design and Development of Novel Hybrid Treatment Technology for the removal of Antibiotics and Organics from Health Care Wastewater”.	Dr. Srikantha H, Jain Deemed to be University. Faculty of Engineering and Technology Jain Deemed.	Dr. Venkata Mohan, Institute of Chemical Technology, Hyderabad	Comments not received	Comments not received.
3.4.10	129/2021/RE– “Exploration of fish diversity in Feni River eco-system of Tripura Using Machine Learning Techniques: strategies for conservation”	Dr. MrinalKantiBhowmik, Tripura University, Suryamaninagar, Tripura	National Institute of Fisheries, Bombay and IIT, Bombay (AI Deptt) for comments	Comments received from CMFRI	Comments awaited from IIT, Bombay (AI Deptt)
3.4.11	143/2021/RE– “Pollutant sensing and removal from water by functionalized nanomaterials”	Dr. AnupamAgarwal, Sharda University Greater Noida,	Dr. RuchiAnand, IIT Bombay	Comments not received.	Comments not received.
3.4.12	97/2021/RE– “Development of a simulation driven sustainability assessment system for the buildings sector”	Dr. Albert Thomas, Indian Institute of Technology Bombay Mumbai	Central Building Research Institute, Roorkee for comments	Comments not received.	Comments not received.

3.4.13	329/2020/RE - "Evaluation of the Ecosystem services of major estuaries of Goa in supporting the livelihood of traditional communities"	Dr. SREEKANTH G B, ICAR Central Coastal Agricultural Research Institute Goa	State Coastal Zone Management authority for comments	Comments not received.	Comments not received.
3.4.14	261/2020/RE- "Development of Sustainable Construction Materials using Waste Tyre Rubber in Fly ash based Geopolymer Concrete and Strength Prediction using Machine Learning"	Dr. P Partheeban, Anna University, Guindy, Chennai.	Central Building Research Institute for comments	Comments not received.	Comments not received.
3.4.15	114/2021/RE- "Development of Green and Economic Concretes using Coal and Construction Industry Wastes: Assessing and Optimizing the Environmental Interests"	Dr. Navdeep Singh, Dr B R Ambedkar National Institute of Technology, Jalandhar	Central Building Research Institute Roorkee for comments	Comments not received.	Comments not received.
3.4.16	46/2020/RE- "Documentation of overall energy savings through Life Cycle Energy Analysis for a diverse range of building materials, technologies and building typologies specifically in respect of the Indian housing sector".	Dr. Mr. Rajesh Malik, REVA University, Rukmini Knowledge Park, Kattigena.	Climate Change Division of MoEF&CC, Institutions such as Housing and Urban Development Corporation (HUDCO) of the Ministry of Housing and Urban Affairs and Bureau of Energy Efficiency (BEE) of the Ministry of Power.	Comments received from HUDCO and BEE.	Comments awaited from Climate Change Division of Ministry
3.4.17	278/2020/RE- "Nanocarbon based materials for the detection and removal of Hg and Pb ions from industrial areas in	Dr. NeerajGupta, Central University of Himachal Pradesh, Camp Office Dharamshala	Ruchi Anand, IIT Bombay and Nishu Verma, IIT Kanpur for comments	Comments not received.	Comments not received.

	Himachal Pradesh and their application for developing a practical device for water cleaning”				
3.4.18	167/2020/RE- “Production of Biobutanol from Fruit Waste”	Dr. Sarah Jaison, PSGR Krishnammal College for Women, Avinashi Road, Peelamedu, Coimbatore, Tamil Nadu,	Dr. Sahoo, Imptech, Chandigarh for comments	Comments not received.	Comments not received.

(C) Projects are under consideration of TFAC: 01

S.No	Registration No	Title of The Project	Status	Remarks of the Committee
01.	404/2018/RE	<p>“Impact of Gold Mine Tailings On Agriculture, Environment and Household Health In Kolar District”.</p> <p>Dr. V. Suresh Babu, National Institute Of Rural Development And Panchayati Raj, Ministry of Rural Development, Government of India, Rajendranagar, Hyderabad.</p>	<ul style="list-style-type: none"> • 11thTFAC Date 20.12.2019 for examine of project site. • 10th TFAC Date 11.12.2019, project was deferred. • 7th Meeting of TFAC Meeting Date - 04/09/2019) • Received - 15/07/2019 	<p>The Committee after deliberations was of the view that the project requires multi-disciplinary approach and organisations such as ICMR, Land Use, Karnataka SPCB, etc should be involved right in the planning stage itself.</p> <p>The Committee was also of the view that a sub-committee consisting of MS, TFAC and two members of TFAC Shri VP Yadav and Shri G Rambabu along with representatives of KSPCB may visit the project site to examine the various aspects of the proposed study and submit a report to the TFAC for further consideration of the project.</p>

Agenda Item No. 4.0

4.1 Review of the progress of the completed projects for acceptance of the Final Technical Report (FTR)under ERDP: **06**

S.No.	File No.	PI/Institution	Title of the Project
1.	19-56/2013-RE	Dr. Chirashree Ghosh, Department of Environmental Studies, University of Delhi.	"Impact of Environmental Bioaerosol Pollution on Human Health: A "case-control Study" for Exacerbation of COPD in North Indian Population"
2.	19-43/2018/RE	Dr. R. Mohana Mepco, Schlenk Engineering College, Sivakasi, Tamil Nadu	"Sustainable utilisation of Industrial waste materials for the development of cementlessferrocement precast panels for Impact load"
3.	3-6/2020-RE	Dr. VartikaMathur, Sri Venkateswara College, New Delhi	"Microbial communities in changing climatic regime: Analysis of primary and secondary risk factors"
4.	19-183/2013-RE	Dr. P. Jegathambal, Karunya Institute of Technology & Science, Coimbatore, TN	"Nano Bio Remediation of Textile
5.	19-27/2018-RE	Dr. D. Brindha Thiagarajara College of Engineering, Madurai	"Assessment of Landfill Gas Recovery and Utilization and Reduction of GHG Emission at the Madurai landfill, Tamil Nadu, India"
6.	19-112/2010-RE	Dr. P Shanmugam, CLRI, Chennai	"Sequential production of bio-diesel, hydrogen and methane as a Bio-refinery Concept using Leather Solid waste and effluent Treatment Sludge's"

4.2 Review of the progress of the on-going projects:(19)

Sl.	File No./Name of the PI	Title of the Project
1.	19-7/2018/RE Dr. Gautam Talukdar, Wildlife Institute of India, Chandrabani, Dehradun	Ecology and Recovery of critically endangered Vulture species in Pong Dam Protected Area (PA) and its Eco Sensitive Zone (ESZ) in Himachal Pradesh
2.	19 -15/2018/RE Dr.Gopi.G.V, Wildlife Institute of India, Chandrabani, Dehradun	An integrated approach for conservation of Takin (Budorcastaxicolor) in North East India:Linking species ecology and traditional ecological knowledge
3.	19-14/2018/RE Dr. Samrat Mondol, Wildlife Institute of India, Chandrabani, Dehradun	Assessing fine scale distribution pattern, population and habitat status of northern Swamp Deer (Rucervusduvauceliduvauceli) across upper Gangetic Plains of north India
4.	19-13/2018/RE Dr. Vishnupriya Kolipakam, Wildlife Institute of India, Chandrabani, Dehradun	Securing habitats for threatened mountain ungulates through robust population assessment and conservation planning
5.	19-4/2018-RE Dr. S. Sathyakumar, Scientist – G, Wildlife Institute of India, Chandrabani, Dehradun.	Assessment of Disease Prevalence in Ungulates in Protected Areas of North East India

6.	19-21/2018/RE Dr. Ajay Kumar, Rain Forest Research Institute, Assam	Quantification of the Economic and Ecological Services of Eco-tourism as a Livelihood Option for the Sustainability of the Rhino Population in Manas Tiger Reserve, Assam
7.	19-30/2018-RE Dr. R. Rani HemaMalini, St. Peters Institute of Higher Education and Research, Avadi, Chennai	Design, Development and Evaluation of Indigenous Sensors Based Air Quality Monitoring System and Data Analysis Using Deep Learning'
8.	19-31/2018/RE Dr. Manchi Shirish Salim Ali Centre for Ornithology and Natural History	Population Status, Ecology and Conservation of the Indian Swiftlet (Aerodramus unicolor) West Coast and Offshore Islands in the Western Ghats of Maharashtra
9.	19-29/2018-RE Dr. S. Babu, Salim Ali Centre for Ornithology and Natural History, Anaikatty, Coimbatore	Ecological assessment of endemic and threatened Laughing thrushes of the Western Ghats to develop conservation plan for securing their population and habitats
10.	19-22/2018/RE Dr. Robin Vijayan, Indian Institute of Science Education and Research Tirupati	Emerging infectious disease in birds across a gradient of alien invasive trees mapped using Remote Sensing on Shola Sky Islands
11.	19-26/2018/RE Dr. Janmejaya Sethy, Amity University, Gautam Budhh Nagar, Noida	Tracking and assessment threats of highly critically endangered scaly giant Chinese Pangolin (Manis pentadactyla) with special reference to sensitization of local communities for its long-term conservation in north-eastern states of India
12.	19-38/2018/RE Prof. S. Jayakumar School of Life Sciences, Pondicherry University, Puducherry	Assessment of Changes for the Conservation and Management of Sathyamangalam Tiger Reserve
13.	19-45/2018/RE Er. Rajesh Kumar CSIR Central Building Research Institute, Roorkee	Development of low energy- low carbon ECO cementitious binders via synergistic use of low graded industrial wastes for sustainable development
14.	19-44/2018/RE Dr. RajniLakhani/ Er. Rajesh Kumar, CBRI, Roorkee	Development of performance improved precast lightweight composite materials using solid waste
15.	19-1/2021-RE Dr. K. Jeyasubramanian, MepcoSchlenk Engineering College, Sivakasi, Tamil Nadu	NIR Light reflective Nano composite plastering mortar/coating towards climate change adaptation in buildings

16.	19-47/2020/RE Dr.Radha RK, Jawaharlal Nehru Tropical Botanic Garden & Research Institute, Kerala	Habitat distribution modelling and reinforcement of two threatened trees in the Kerala region of the Western Ghats for the improvement of their conservation status
17.	19-49/2020/RE Dr. G. Thiribhuvanamala, Tamil Nadu Agricultural University, Lawley Road, Coimbatore	Exploration And Conservation Of edibleand Medicinal Mushroom Diversity And Documentation Of Ethno Mycological Knowledge From Forests Of Coimbatore District Of Western Ghats For Restoration Of Nutritional Security Through Recycling Of Agro Forest Wastes.
18.	19-48/2020/RE Dr. Bhaskar Sinha, Indian Institute of Forest Management, Bhopal	Understanding The Relationship Between Forest And Water In The Context Of Changing Climate Variables Of Narmada Catchment
19.	19-46/2020/RE Dr. T.S. Suryanarayanan, Vivekananda Institute of Tropical Mycology, Chennai	An exploration of the mangroves of the Eco-Sensitive Zone of Bhadrak wildlife division (Odisha) for their fungal endophyte diversity

Agenda Item No. 5.0. Review of the progress of AICOPTAX:

5.1 Review of the findings/FTR of the completed projects: 26

Sl.	File No, Title of the Project	PI and Address
1.	F. No. 22018/18/2016-RE(Tax) “Qualitative Assessment and Inventorization of Phytoplankton Diversity of Water bodies in States of Punjab and Haryana.”	Dr. Amrik Singh Ahluwalia, Algal Biology and Diversity Lab, Department of Botany, Panjab University, Chandigarh- 160014 Email: phykos@pu.ac.in
2.	F. No. 22018/15(iv)//2015-CS(Tax) “Distribution and Identification of Phylum Kinorhyncha, Gastrotricha and Tardigrada in the Island Environments of India”.	Dr. A. Sarvankumar Asstt. Professor, CAS Marine Biology, Annalmalai University, Parangipetti. Email: asarvaan@gmail.com
3	F. No. 22018/16/2016-CS(Tax) “Freshwater Diversity of Peninsular India (excluding Tamil Nadu) Taxonomic enumeration and Developing Online Flora”.	Dr. Karthick Balasubramaniam, Scientist ‘D’, Division of Plant Science, Agharkar Research Institute, GG Agarkar Road, Pune -411004. Email: karthickbala@aripune.org
4	F.No. 22018/15/2015- CS(Tax) “Investigations on the Phytoplankton Diversity of the Freshwater habitats of Odisha and West Bengal”	Dr. Jai Prakash Keshri, Professor, CAS in Botany, The University of Burdwan- Burdwan-713104 Email:keshrijp@gmail.com
5	F.No. 22018/19/2015-CS (Tax) Marine Algal Diveris of East coast region of India with special reference to Molecular Phlogen of some green Phytoplankton	Dr. Mrutyunjay Jena, Algology Laboratory, Department of Botany, Behrampur University, Behrampur Email: mrutyunjay.jena@gmail.com

6	F. No. 22018/21/2015-CS(Tax) Assessing Phytoplankton diversity in difference fresh water habitats of Assam, Tripura & Arunachal Pradesh	Dr. Partha Pratim Baruah, Professor, Department of Botany, Guwahati University, Guwahati – 781014 Email: ppbaruah@gauhati.ac.in
7.	F.No. 22018/20/2015 Biodiversity of freshwater Planktonic algae of Tamil Nadu, South India: Survey, Collection, identification and Conservation”	Dr. S. Nagraj, Assistant Professor, CAS in Botany, University of Madra, Guindy Campus, Chennai-600025 Email: nagalilly@gmail.com
8	22018/03/2015-RE(Tax) Taxonomic Study of Tettigoniidae(Orthoptera) of India	Dr. Pawan Kumar, Tropical Forest Research Institute, Jabalpur. Ph. No. 9816040246 Email: kumarp@icfre.org
9	22018/03/2015-RE(Tax) Taxonomic Study of Tettigoniidae(Orthoptera) of India.	Dr. Sudhir Singh Collaborator, Forest Research Institute, Dehradun Email: sudhirs@icfre.org ,
10	F. No. 22018/22/2015-CS(Tax) “Study of Diversity of Marine Macro Algae of Andhra Pradesh”	Dr. M. Palanisamy, Scientist C, Botanical Survey of India, Southern Regional Centre, T.N.A.U, Campus, Lawely Road Post, Coimbatore.
11	F.No. 22018/14/2015-CS(Tax) Research Project on Freshwater Phytoplankton diversity of Bihar, Jharkhand States of India: Survey and conservation.	Dr RK Gupta, Scientist –C, Cryptogamic Unit, CNH Building Botanical Survey of India, AJCB Botanic Garden, Howrah-711103. Em ail: rkguptabsi@yahoo.com
12	F.No.22018/02/2015-CS(Tax) Taxomic studies on the Tubulifra (Insecta: Thysanoptera of India”	Dr. Vikas Kumar, Scientist C Centre for DNA Taxonomy, Molecular Systematics Division, ZSI, Kolkatta-700053. vikaszsi77@gmail.com
13.	F.No. 22018/10/2015-CS(Tax) Advanced Training and Research in Plant Biosystematics”	Dr. Radhe Shyam Sharma, Department of Environmental Studies, University of Delhi, Delhi-110007 Email:rads26@hotmail.com
14	F. No. 22018/17/2015-CS (Tax) Phytoplanton of Fresh Water Habitats of Meghalaya, Mizoram & Nagaland states of India.	Dr. Papiya Ramanujan, Associate Professor, Botany, North Eastern Hill University, Shillong-793022, Email: papiyaramanujam@yahoo.com
15	F. No. 22018/30/2015-CS(Tax) Diversity of Water-striders (Hemiptera: Gerridae) from Principal Estuaries of eastern coast of India	Dr. Swetapadma Dash, Scientist C, Zoological Survey of India, Gopalpur-610002 Email: oasisnainital@yahoo.co.in
16	22018/12(ii)/2015-CS(Tax) Taxonomic stubs and distribution of lesser known phylum chaetognatha from east and west coast of India.	Dr. C. Stella, Professor, School of Marine Science Department of Oceanography and Coastal Area Studies, Algappa University, Thondi., Tamilnadu -623409
17	F.No.22018/15(ii)/2015-CS (Tax) Distribution and identification of Phylum kinorhyncha, Gastrotricha and Tardigrada in the Island Environments of India.	Dr. P M Mohan Department of Ocean Studies and Marine Biology, Pondicherry University, Port Blair Email: registrar@pondiuni.edu.in
18	F. No. 22018/04/2015-CS (Tax) “Zygentoma (Thysanura): Apterygota Insecta”.	Dr A.K. Hazra, Scientist–F & Emeritus Scientists, Zoological Survey of India, M-Block, New Alipore, Kolkata

		Email: dr.ashishazra@gmail.com Mob: 9432351148
19	F.No.22018/15(i)/2015-CS(Tax) "Taxonomical Investigation of Lesser Known Marine Animals of India Phylum: Cnidaria (Class:Anthozoa) and Phylum: Porifere (Marine)"	Dr. K. Vinod, Principal Scientist, CFMRI, Kochin
20	F.No.22018/28/2015-CS(Tax) Taxonomical investigation on Ostracodes and Branchiopods in the Southeast coast of India"	Dr P.S. Lyla, Professor CAS in Marine Biology, Annamalai University Parangipettai, Tamil Nadu Email: dr.lailanair3@gmail.com
21	F. No. 22018/04/2019-CS (Tax) "Preparation of Checklist of Mangroves".	Prof. K. Kathiresan, Professor, CASMB Annamalai University, Annamalainagar
22	F. No. 22018/07/2019-CS (Tax) "Preparation of Checklist of Meiofauna"	Dr. S. Bijoy Nandan, Prof. & Head of Department of Marine Biology & Biochemistry, CUST, Cochin
23	F. No. 22018/30/2019-CS (Tax) "Diversity, molecular taxonomy and phylogenetic assessment of snapping shrimps (Family: Alpheidae) in Palk Bay and Gulf of Mannar".	Dr. M. Thangaraj, Asstt Prof, CASMB, Annamalai University, Parangipettai- 608502
24	F. No. 22018/60/2019-CS (Tax) "Taxonomic and Ecological studies on Arachnids of Trans and Western Himalaya, India"	Dr. V.P. Uniyal, Scientist- G, Wildlife Institute of India, Chandrabani, Dehradun- 248001
25	F. No. 22018/35/2019-CS (Tax) "Taxonomic Status of Super Family Bombycoidea (Lepidoptera) From Indian Himalayas"	Dr. Amritpal Singh Kaleka, Assistant Professor, Department of Zoology & Environmental Sciences, Punjabi University, Patiala.
26	F.No. 22018/45/2010-CS/TAX "Hymenoptera: Apoidea, Part-I Meliponinae (Stingless bees), Bombinae (Bumble bees) and Xylocopinae (Carpenter bees) from North-East and North-Western Himalaya"	Dr. M.S. Saini, Punjabi University, Patiala

5.2 Review of the progress of on-going research projects: 07

SI	File No, Title of the Project	PI and Address
1	F.No.22018/15(i)/2015-CS(Tax) "Taxonomical Investigation of Lesser Known Marine Animals of India Phylum: Cnidaria (Class:Anthozoa) and Phylum: Porifere (Marine)"	Dr. K. Vinod, Principal Scientist, CFMRI, Kochin
2	F. No. 22018/01/2019-CS(Tax) "Exploring efficacy of plants and microbes for remediation of E-waste contaminated soil".	Dr. Pammi Gauba, Prof & Head, Department of Biotechnology, Jaypee Institute of Information and Technology, A-1, Sector 62, Noida.
3	F. No. 22018/02/2019-CS (Tax) "Diversity of herpetofauna of Goa, Maharashtra and Karnataka.	Dr. Nitin S. Sawant, Assistant Professor, Department of Zoology, Goa University
4	F. No. 22018/05/2019-CS (Tax)	Dr. A. Gopalakrishnan

	“Taxonomy and epidemiology of pathogenic viruses and fungi of commercially important fin and shellfishes of Coromandel Coast”	CASMB, Annamalai University Parangipettai- 608502
5	F. No. 22018/12/2019-CS (Tax) “Biosystematics and Biodiversity Studies of Trichogrammatids Hymenoptera: Chalcididae: Trichogrammatidae”	Dr. Shoeba Binte Anis, Associate Professor, Section of Entomology, Department of Zoology, AMU, Aligarh
6	F. No. 22018/18/2019-CS(Tax) “Taxonomy and mass scale production of selected species of polychaetes for augmenting aquaculture and natural stock”	Dr. P. Murugesan, Asst. Professor, CAS in Marine Biology, Annamalai University, Parangipettai- 608502.
7	F.No.22018/28/2019-CS(Tax) “Morphological and molecular taxonomy of termites (Insecta: Isoptera) from Peninsular India and studies on their potential human food”	Dr. Kalleshwara Swamy, C. M., Asstt. Prof., Deptt. of Entomology, College of Agriculture, University of Agriculture and Horticulture Science (UAHS) Navile, Shimoga.

Agenda Item No. 6.0

Any other matter with permission of Chair.
