

BRICS STI FRAMEWORK PROGRAMME
6th CALL 2023: Climate Change Adaptation and Mitigation

List of successful projects

Nº	Registration number (BRICS2023-) and Acronym	Full Title	Country	PI	Organization	National funding organization
1	022 - H-Damage	Delamination damages in pipelines transporting hydrogen and CO ₂ -H ₂ O mixtures due to oxide reduction	BRAZIL	Luís F P Dick	Federal University of Rio Grande do Sul	CNPq
			RUSSIA	Andrey I. Marshakov	Frumkin Institute of Physical Chemistry and Electrochemistry, RAS	
			INDIA	Vijayshankar Dandapani	Indian Institute of Technology Bombay	DST
2	027 - CASCADE-3C	CASCADE-3C: Collaborative Climate Change, Risk and Adaptation	BRAZIL	Jamil A. A. Anache	University of São Paulo	CNPq
			INDIA	Ankit Agarwal	Indian Institute of Technology Roorkee	DST
			CHINA	Hui Lu	Tsinghua University	MOST
3	030 - OceaEnAqua	Response strategies for WEF system of fishing communities under climate change: Feasibility analysis of	BRAZIL	Paulo de Tarso Themistocles Esperança	Federal University of Rio de Janeiro	CNPq
			INDIA	Akshoy Ranjan Paul	Motilal Nehru National Institute of Technology Allahabad	

		an offshore multi-functional floating platform integrating aquaculture-ocean energy-desalination	CHINA	Xiantao Zhang	Shanghai Jiao Tong University	NSFC
4	037 - CATWEFS	Climate Adaptation towards Water-Energy-Food Sustainability in BRICS countries	BRAZIL	Javier Tomasella	National Institute for Space Research	CNPq
			INDIA	Subimal Ghosh	Indian Institute of Technology Bombay	DST
			CHINA	Yongxi Ma	Zhejiang Sci-Tech University	
5	040 - EO4DP	Spatio-temporal Process and Mechanism of Drought Propagation in Agricultural Regions of BRICS Countries Based on Earth Observation Sensor Web	BRAZIL	Veber Afonso Figueiredo Costa	Federal University of Minas Gerais	CNPq
			INDIA	Rabindra Kumar Panda	Siksha 'O' Anusandhan	
			CHINA	Xiang Zhang	China University of Geosciences	NSFC
			SOUTH AFRICA	Mahlatse Kganyago	University of Johannesburg	NRF
6	049 - UWPbiofert	Utilization of waste from fried potato industry by combining different technologies for efficient use of resulting bioenergy, waste water and biofertilizers	BRAZIL	Carlos Eduardo de Farias Silva	Federal University of Alagoas	CNPq
			RUSSIA	Rafail Isemin	Tambov State Technical University	MSHE
			CHINA	Xianhua Guo	Chongqing Three Gorges University	

7	052 – BRICSEIBEX	An interdisciplinary approach for assessment of the impacts of climate change on socio-ecological systems of some selected regions of BRICS countries	BRAZIL	Otto Corrêa Rotunno Filho	Federal University of Rio de Janeiro	CNPq
			INDIA	Pankaj Kumar Roy	Jadavpur University	
			SOUTH AFRICA	Yali Edessa Woyessa	Central University of Technology	NRF
8	072 – ALGASAFE	Cascading algal biomass valorization into energy, feed and biofertilizer: a holistic approach to bioremediation and sustainable development	RUSSIA	Olga Babich	Immanuel Kant Baltic Federal University	MSHE
			INDIA	Ranjna Sirohi	SKN Agriculture University	DST
			SOUTH AFRICA	Ismail Rawat	Durban University of Technology	NRF
9	075 – PeltWear	Pelton turbines for sediment-laden flows – An approach for climate change adaptation in the hydropower sector	BRAZIL	Ramiro G. Ramirez Camacho	Federal University of Itajubá	CNPq
			INDIA	Anant Kumar Rai	National Institute of Technology Warangal	
			CHINA	Xiao Yexiang	Tsinghua University	NSFC
10	078 – COASTCARB	Coastal wetlands potential for carbon sequestration under climatic change / Coastal wetlands potential for carbon sequestration	BRAZIL	Tiago Osório Ferreira	University of São Paulo	CNPq
			RUSSIA	Pavel Krasilnikov	Lomonosov Moscow State University	MSHE
			CHINA	Ligang Xu	Nanjing Institute of Geography and Limnology, CAS	MOST
11	086 – SUSTBIO-WFE	Sustainable Biomass Valorization within the Water-Food-Energy Nexus: A Circular Economy Approach for	BRAZIL	Electo Eduardo Silva Lora	Federal University of Itajubá	CNPq
			RUSSIA	Alexander Kozlov	Melentiev Energy Systems Institute, SB RAS	MSHE

		Resource Efficiency in a Changing Climate.	CHINA	Yuming Zhang	China University of Petroleum -Beijing	MOST
			SOUTH AFRICA	Yusuf Makarfi Isa	University of The Witwatersrand	NRF
12	090 – IETEC	Impacts of Extreme Events on Terrestrial Ecosystem Carbon Exchange with the Atmosphere.	BRAZIL	Elbert Einstein Nehrer Macau	Federal University of Sao Paulo	CNPq
			INDIA	Yogesh Kumar Tiwari	Indian Institute of Tropical Meteorology	
			CHINA	Yong Zou	East China Normal University	NSFC
13	093 – ACCURATE	Assessment of the impacts of climate change in contrasting environments through integrated high towers, ground-based, and remote sensing observations	BRAZIL	Paulo Artaxo	University of São Paulo	CNPq
			RUSSIA	Eugene F. Mikhailov	Saint-Petersburg State University	MSHE
			INDIA	Sachin S. Gunth	Indian Institute of Technology Madras	
			CHINA	Hang Su	Institute of Atmospheric Physics, CAS	NSFC
			SOUTH AFRICA	Rebecca M Garland	University of Pretoria	NRF
14	106 – DWATCH	DisasterWatch: Enhancing Agricultural Resilience and Food Security through Earth Observation in the Context of Climate Change	RUSSIA	Dmitry Plotnikov	Moscow State University	MSHE
			CHINA	Miao Zhang	Aerospace Information Research Institute, CAS	NSFC
			SOUTH AFRICA	Walter Musakwa	University of Johannesburg	NRF

15	111 – VULNECOAST	Assessment of vulnerability of coastal ecosystems in the tropical zone to climate change for the purpose of adapting of governance nature management	BRAZIL	Fabio Luiz Peres Krykhtine	Federal University of Rio de Janeiro	CNPq
			RUSSIA	Tatiana Gorbunova	A.O. Kovalevsky Institute of Biology of the Southern Seas, RAS	MSHE
			SOUTH AFRICA	Oludolapo Akanni Olanrewaju	Durban University of Technology	NRF
16	113 – PhBEChRem	Phyto-bioelectrochemical remediation for petroleum contaminated sites under carbon neutralization	RUSSIA	Devard Stom	Irkutsk State University	MSHE
			INDIA	Lepakshi Barbora	Indian Institute of Technology Guwahati	
			CHINA	Qixing Zhou	Nankai University	NSFC
17	122 – AgroFloodWatch	Monitoring, Impact Assessment, and Future Risk Prediction of Flood Disasters in Typical Agricultural Regions of China, India, and Brazil Using Cutting-Edge Earth Observation and Atmospheric Modeling Technologies	BRAZIL	Felipe Denardin Costa	Federal University of Pampa	CNPq
			INDIA	Mrinal Singha	Royal Global University	
			CHINA	Jinwei Dong	Institute of Geographic Sciences and Natural Resources Research, CAS	NSFC
18	135 – MSDISCWEF	Management of Sustainable Development of Industrial Structures within the Concept of Water-Energy-Food	RUSSIA	Dmitriy Grigoryevich Rodionov	Peter the Great St.Petersburg Polytechnic University	MSHE
			INDIA	Mukesh Kumar Barua	Indian Institute of Technology Roorkee	
			CHINA	Zengwei Yuan	Nanjing University	NSFC

19	165 - BRIC-BAC	Building Resilience through multilevel efforts: climate risk governance and local adaptation in coastal areas in China, Brazil and South Africa	BRAZIL	Victor Marchezini	National Early Warning and Monitoring Centre of Natural Disasters	CNPq
			CHINA	Ziqiang Han	Shandong University	MOST
			SOUTH AFRICA	Dewaldvan Niekerk	North-West University	NRF