DST- UK Selected Project

SERIAL NUMBER	DST Reference No.	TITLE	INDIAN COORDNATOR	UK COORDINATOR
1	DST/INT/UK/ P-151/2017	Bioinspired green catalysts for water purification	Prof. Chivukula Sastri, Indian Institute of Technology - Guwahati,	Dr Samuel de Visser, Institution University of Manchester, Oxford Road,Manchester,M13 9PL
2	DST/INT/UK/ P-152/2017	Monitoring of PAHs and heavy metals in sediments of industrial estuaries, Glasgow and Yamuna River: PCR based detection of catabolic plasmids/genes in PAHs degrading and multi resistant bacterial isolates and their genotoxic potential	Professor Abdul Malik, Aligarh Muslim University, Department of Agricultural Microbiology,Faculty of Agricultural Sciences, ,Aligarh	Dr. Charles W.Knapp, University of rathclyde, Department of Civil & Environmental Engineering, 75 Montrose Street, Glasgow, Scotland Postcode G1 1XJ
3	DST/INT/UK/ P-153/2017	Sensing and Security for Smart IoT	Ranjan Kumar Mallik, Indian Institute of Technology (IIT) Department of Electrical Engineering,Indian Institute of Technology, Hauz Khas, New Delhi	Maged Elkashlan,Queen Mary, University of London,School of Electronic Engineering and Computer Science,Queen Mary University of London, Mile End Road, London, UK (England),E1 4NS
4	DST/INT/UK/ P-154/2017	Using sedimentary DNA to unravel the long-term impact of environmental changes on human health and subsistence in India	Dr. Niraj Rai, Birbal Sahni Institute of Palaeobotany,53, University Road, Lucknow, Uttar Pradesh 226007,India	Prof. Eske Willerslev,University of Cambridge,Department of Zoology Cambridge,CB2 3EJ
5	DST/INT/UK/ P-155/2017	An advanced integrated process for the treatment of sewage plant effluent using bio-based antimicrobial metal biosorbents and photocatalytic nanocomposite materials	Dr. Lalit M Pandey, Indian Institute of Technology Guwahati, Near Doul Gobinda Road, Amingaon, North Guwahati,Assam 781039 Phone:03612583000 India	Dr. K. H. Aaron Lau,University of Strathclyde,Department of Pure and Applied Chemistry,16 Richmond St, Glasgow, United Kingdom,G11XQ
6	DST/INT/UK/ P-156/2017	Capacity building in rhizobacteria mediated plant stress resistance for Indian agriculture	Prof. Meenu Saraf Gujarat University Department of Microbiology and Biotechnology,University School of Sciences, Gujarat University, Ahmedabad-	Prof. Martin Buck, Imperial College of Science, Technology and Medicine (also known as Imperial College London) Room 448, SAFB Department of Life Sciences,London

7				
8	DST/INT/UK/ P-157/2017	Natural-Coloured Functionally Graded Rubberised Geopolymer System: A cement-less solution for optimised concrete paver manufacturing	Dr. Sandeep Chaudhary Indian Institute of Technology Khandwa Road,Simrol,Indore 453552, India	Professor Yong Lu, University of Edinburgh, The School of Engineering, The University of Edinburgh Faraday Building, The King's Buildings, Mayfield Road,Edinburgh,EH9 3JL
8			Mr. Tanmoy Chakraborty	
	DST/INT/UK/ P-158/2017	An In-depth Analysis of Abuses in Social Media – Integrating Cues from Language, Behavior and Networks	Indraprastha Institue of Information Technology Delhi (IIIT-D), Okhla Industrial Estate, Phase - III New Delhi - 110020, India	Pete Burnap Cardiff University (Prifysgol Caerdydd) 5 The Parade Roath Cardiff Postcode CF24 3AA
9				
	DST/INT/UK/ P-159/2017	Integration of space based SAR (BIG) data with ground based information for an improved near real time assessment and monitoring of seismic hazard	Mr. Tejpal Singh, CSIR-Central Scientific Instruments Organisation, CSIR-Central Scientific Instruments Organisation Precision Mechanical Systems (V-5) Sector 30 C, Chandigarh,	Dr Tim J Wright University of Leeds School of Earth and Environment Sciences University of Leeds,Leeds,LS2 9JT
10			Drof Drovin D. In colo	Dr. Stanhan Highay
	DST/INT/UK/ P-160/2017	Flexible Supercapacitors based on conducting polymer coated metal oxide aerogel nanostructures	Prof. Pravin P. Ingole Indian Institute of Technology Delhi Department of Chemistry, IIT Delhi, Hauz Khas, New Delhi110016.India	Dr. Stephen Hickey University of Bradford School of Chemistry and Biosciences, University of Bradford Richmond Road,Bradford,BD71DP
11	1 100/2017			
	DST/INT/UK/ P-161/2017	UCL-IITI Partnership: Development of 3D Printable Biomimetic Hydrogels (Bio-inks)	Dr. Apurba K. Das Indian Institute of Technology Indore Discipline of Chemistry,Indian Institute of Technology Indore,Khandwa Road,Simrol,Indore 453552, MP India	Dr. Deepak Kalaskar, university College London, Division of Surgery and Interventional Science, Centre for Nanotechnology and Tissue Engineering Royal Free Hospital Campus, UCL, Rowland Street, London, NW3 2AW
12				
	DST/INT/UK/ P-162/2017	In-situ bioremediation of non-aqueous phase liquids (NAPLs) pollution within the Baddi-Barotiwala Nalagarh (BBN) Industrial Area in Himachal Pradesh, India	Dr Brijesh Kumar Yadav Indian Insitute of Technology, Roorkee Indian Institute of Technology Roorkee	Professor Paul Wood,Loughborough University,Department of Geography,Loughborough University Loughborough ,LE11 3TU

13				
	DST/INT/UK/ P-163/2017	Vulnerability Assessment and Sustainable Solutions for Water Quality Management in the Urban Environment	Dr. Manish Kumar,Discipline of Earth Sciences,Indian Institute of Technology Gandhinagar,Palaj, Gujarat -382 355,India	Dr David Werner, Newcastle UniversityNewcastle University, School of Engineering, Room 1.12, Cassie Building Newcastle upon Tyne, NE17RU
14				
15	DST/INT/UK/ P-164/2017	4D Micro-Stereolithography Printing of Scaffolds using Plant Oil Polymers and Graphene for Various Functional Biomedical Applications	Dr.A.S.S.BALAN, VIT UNIVERSITY Center For Innovative Manufacturing Research (CIMR), School of Mechanical Engineering, VIT University, Vellore, Tamilnadu, Pincode:	Dr. Krzysztof K.K.Koziol Cranfield University Cranfield,MK43 0AL
15				
16	DST/INT/UK/ P-165/2017	Robust Cyber Security Framework for Longitudinal Smart Energy Monitoring Device Data (CS-SED)	Professor Saikat Kumar Shome,CSIR - Central Mechanical Engineering Research M G Avenue Durgapur-713209 WB India	Professor Vladimiro Sassone,University of Southampton,University Road,Southampton SO171BJ
	DST/INT/UK/ P-166/2017	LOngshore Sediment Transport Simulations in a Changing Climate	Dr. Manasa Ranjan Behera,Indian Institute of Technology Bombay IIT Bombay, Powai, Mumbai 400 076, Maharashtra,India	Prof. Dominic E. Reeve,Swansea University (Prifysgol Abertawe)Swansea University College of Engineering, Bay Campus, Swansea SA1 8EN
17	DST/INT/UK/ P-167/2017	Photo-Rechargeable Perovskite Batteries for Future Mobility	Dr. Shahab Ahmad , Jamia Millia Islamia, JMI (A Central University) Assistant Professor,Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia (Central University), New Delhi, 110025,India	Dr. Michael De Volder University of Cambridge Institute for Manufacturing (IfM),17 Charles Babbage Rd,Department of Engineering, University of Cambridge,Postcode CB3 0FS
18				
	DST/INT/UK/ P-168/2017	Automated Continuous Manufacturing Platform for Functional Nanoscale Materials	Dr. Amol A. Kulkarni CSIR-National Chemical Laboratory Dr Homi Bhabha Road, Pashan, Pune - 411008,India	Professor Asterios Gavriilidis University College London,Dept of Chemical Engineering Torrington Place London Postcode WC1E 7JE

19				
			Prof. Suhas S. Joshi,	Prof. Stefan Dimov
			Indian Institute of	University of Birmingham,
			Technology Bombay,	Department of Mechanical
		Surface functionalization for	Department of Mechanical	Engineering ,School of
	DST/INT/UK/	food, packaging and	Engineering, IIT Bombay	Engineering Edgbaston
	P-169/2017	healthcare applications	Powai, Mumbai	,Postcode B15 2TT

The above proposals have been recommended by both Indian and UK Subject Expert Committees. The Indian Project Investigators are requested to submit the enclosed check list (Annexure-I), bank details (Annexure-II) and Budgetary details as proposed in the project with sufficient justification for processing the individual cases for sanctioning the Projects from DST side. The documents submitted by post to the following address.

Mr. S.K. Varshney Scientist – 'G' International Bilateral Cooperation Division Department of Science & Technology Ministry of Science and Technology Government of India Technology Bhavan, New Mahrauli Road New Delhi – 110016 Email: <u>skvdst@nic.in</u>

CHECKLIST

I. GENERAL INFORMATION

1.		Title of the Project	:
2.	Initiating Institute of project	:.	
3.	Sponsoring Agency/Ministry	:	
1	. Total cost of the project	:	
	Nature and Quantum of foreign		
	collaboration sought		
(i) Financial support:	:	
(i	i) Equipment support	:	
(i	ii) Technical support :		
(i	v) Manpower training	:	
5. I	s there any possibility, however :		
r	emote of use of data, information		
C	f result of the work which may		
i	npinge on India's national security?		
Ι	f yes, the nature of such a use may		
b	e indicated. (In case the concerned		
sc	rutinizing Ministry do not have clear		
aı	nswer, the matter should be referred		
tc	the DRDO and MHA for examination).		

II. ORIGIN OF THE PROJECT AND ITS SPONSORS :

 If the proposal is foreign-originated, what is the background of the foreign agency or organization which is sponsoring the project? Information available, if any on past collaboration by foreign agency with Indian Institution. 7. Are the foreign agency, organization, scientists concerned, known to have taken up any project of

military significance in the past or are known to be associated with any military organization or project?
(if the above information is not known or if there is definite information that there is no such association, these should be clearly indicated).
8. Is the proposer (Indian) known to the foreign collaborator and his group for some time and has

this emerged naturally from the research work

done by the two sides?

III. FUNDING OF THE PROJECT

- 9. Is the foreign source know to have funded research into sensitive and national security areas in its own country or in other countries?
- 10. Are there reasons to believe that the foreign source is a cover name for some other sponsor?

IV. ADMINISTRATION AND CONTROL OF THE PROJECT

:

:

:

:

- 11. Give a list of the likely places of visit : within the country planned by the foreign collaborator. Also give a list of the institutions which the collaborator is likely to visit.
- 12. Will any sensitive source material be

referred to during the course of the research?

13. (I) Does the collaboration involve

- a) Transfer of biological material(s)
- b) Use of radioactive materials
- c) Use of environmentally or otherwise hazardous material(s)
- d) Use of Genetically Modified Organisms :
- e) Field trials or testing
- f) Ethical issues
- g) Issues related to Intellectual Property : Rights (IPR)

14. If answer to any section of question13 is yes, are the investigators/ proposers

aware of the relevant regulations and have

they agreed to abide by them?

15. Will the research be conducted in : accordance not only with the country's

own ethical and environmental standards,

but with international standards as well?

16. Certified that above information is true to the best of our knowledge

:

Signature of the Project Coordinator

Signature of the Head of the Institution

ECS Details for Electronic transfer of the grant International Cooperation Division Department of Science & Technology Bank details for transfer of DST fund electronically

Agency name as registered with	
DST CPMS	
Agency Code as per CPMS	
Account Holders name/	
designation	
Name of Bank and address	
Saving Bank Account Number	
IFSC Code	
MICR Code	

Sanction No.	DST/INT/
Name of Principal Investigator	
E-mail (Agency/PI)	
Mobile No. (Agency/PI)	

I do hereby certify that the above mentioned account is an interest bearing account and I take all responsibility for declaring the interest so accrued on the released grant from DST in the SE/UC to be furnished to DST.

Signature of Finance Authority with seal

(Please note that Agency name and Account holders name should be identical.)

VISIT PROPOSAL

- 1. Project Title:
- DST's Sanction Order No: Dated:
- 3 Name and position with full official address of the visiting scientist: (including his/her Phone, Fax, Email)

4. VISIT DETAILS:

- (i) Period of visit : From:
- (ii) Duration (in days):
- (iii) Place(s) to be visited:
- 5. Whether any visit (s) have taken place previously under this project:

(if yes, please fill the following table in chronological order):

Period of visit		Name(s) of scientist(s)	
From	То		

 Name, position and address of the host scientist (attach a copy of the invitation letter, only in case of visit by Indian scientists)

- 7. Brief status of the work achieved so far (in general terms):
- 8. Brief Work Plan and purpose of the proposed visit.
- 9. FINANCIAL STATUS (in Rs.)

Sanctioned amount	Amount released	Expenditure incurred	Balance
	с		e

10. Weather you need further release of grant? (if yes, please ensure wheather you have submitted the visit report of each one mentioned in table 5 to DST alongwith the statement of accounts)

(*Only for Indian participants)

Name & Signature of the Indian PI

Forwarded by

Head of the Department/Institute