

DST/IMRCD/BRICS/PilotCall2/NFSMAFPSC/2018 (G)
DEPARTMENT OF SCIENCE & TECHNOLOGY
GOVERNMENT OF INDIA
(International Multilateral Regional Cooperation Division)

Technology Bhavan,
 New Mehrauli Road
 New Delhi-110016
 Dated: 18/02/2019

ORDER

Sanction of President is accorded for incurring an expenditure not exceeding Rs 34.63 020/- (Rs Thirty Four Lakh Sixty Three Thousand Twenty only) under 'General' head for a duration of 3 years implementation of BRICS Research Project – NFSMAFPSC "Development of efficient polymer solar cells based on non-fullerene small molecules acceptors with low energy loss"

2 The Project is between Indian Project Coordinator: Prof Ganesh Datt Sharma Department of Physics The LNM Institute of Information Technology Jaipur; Russian Project Coordinator Prof A R Khokhlov A N Nesmeyanov Institute of Organoelement Compounds of Russian Academy of Sciences (INEOS RAS) Moscow Russia and China Project Coordinator: Prof Chuandong Dou Changchun Institute of Applied Chemistry Chinese Academy of Sciences China

3 Following is the budget details for The LNM Institute of Information Technology, Jaipur Research Project

Sr. No.	Items	1st year	2nd Year	3rd year	Total
1	Manpower (one JRF @Rs 25000 + 20% HRA for first two years and @Rs 28000 + 20% HRA for third year	3 60 000	3 60 000	4 03 200	11 23 200
2	Consumables	2 50 000	2 50 000	2 50 000	7 50 000
3	Mobility: India to BRICS Countries Maximum 2 Visits in a year Total 6 visits in 3 years Max Duration 1 week (budget include cheapest economy air fare from place of work to visiting institute accommodation cost, visa fee, medical insurance premium)	3 50 000	3 50 000	3 50 000	10 50 000
4	Workshop/Terminal Review Meeting	75 000	75 000	75 000	2 25 000
5	Sub-Total	10 35 000	10 35 000	10 78 200	31 48 200
6	Overheads charges @10%	1 03 500	1 03 500	1 07 820	3 14 820
7	Total	✓ 11 38 500	11 38 500	11 86 020	34 63 020 ✓

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4. Sanction of the President is also accorded for release of 1st instalment amounting of Rs 11,38,500/- (Rs. Eleven Lakh Thirty Eight Thousand Five Hundred Only) and payment of this amount may be made to DDO, DST by means of electronic transfer to the following account of **LNM Institute of Information Technology** (to be utilized by Prof. Ganesh Datt Sharma, Department of Physics, The LNM Institute of Information Technology):

1	Name /Designation of account holder	LNMIIIT Research Fund
2	Name of bank and branch	State Bank of India Secretariat Jaipur 302005
3	Bank Account No	51086329418
4	IFSC Code	SBIN0031031
5	MICR Code	302002103

Condition for placing of grant amount

5. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during FY 2017-18 and onwards, all interests and other earnings, against released Grant shall be remitted to Consolidated Fund of India (through Non-tax Receipt Portal (NTRP), i.e., www.Bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of Expenditure/Utilization Certificate for considering subsequent release of grant/closure of project accounts.

Conditions for submission of SE/UC and Progress report:

6. (a) The grantee organisation will furnish to the Department of Science & Technology financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SF) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

(b) While submitting Utilization Certificate/Statement of Expenditure, the organisation has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.

(c) A transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/ Organisation under the appropriate rules of the grantee organisation while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organisation immediately on receipt of the grant.

7. The grantee organisation will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

8. In the event grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.

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Conditions of Assets (if any) :

- 9 (a) DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
- (b) The equipment/instrument shall have to be purchased within twelve months from the date of release of the capital grant. Fresh permission shall have to be sought from DST, in the event, the Institute fails to purchase the equipment/instrument within the prescribed period of twelve months from the date of release of sanctioned amount.

Conditions for International Visits :

10 All project related visits to be undertaken by the Scientists from either side in connection with the implementation of the project shall require prior approval from this Department separately on a case to case basis before any expenditure is incurred in this regard.

11 As per MoF instructions, it has been decided that in all cases of air travel both domestic and international where the Government of India bears the cost of air passage, the officials concerned may travel only by Air India. For travel to stations not connected by Air India, the officials may travel by Air India to the hub-point closest to their eventual destination, beyond which they may utilize the services of another airline which should also preferable be an alliance partner of Air India.

Other Conditions:

12 The account of the grantee organisation shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST) whenever the organisation is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.

13 Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organisation in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

14 Failure to comply with the terms and conditions of this sanction order will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

15 The expenditure involved is debitable to **Demand No.84, Department of Science & Technology for the financial year 2018-19**

3425	Other Scientific Research (Major Head)
60	Others
60.798	International Cooperation (Minor Head)
14	Research & Development
14.00.31	Grants-in-aid General for the year 2018-19 (Previous : ICD-3425 60 798 12 00 31)

16 This issues with the concurrence of IFD vide their Dy No. C/ 5305 /IFD 2018-19, dated: 14/02/2019.

17 As per Rule 234 of GFR 2017, this sanction has been entered at S No 433 in the register of grants maintained in the Division.


(Dr. Arvind Kumar)
Scientist "E"

To

The Pay & Accounts Officer,
Deptt. Of Science & Technology, New Delhi

Copy to -

- 1 Office of the Principal Director of Audit, Scientific Deptts IP Estate N Delhi- 110002.
- 2 Cash Section (3 copies), Department of Science & Technology (DST)
- 3 I.F. Division/Accounts Section DST
- 4 Registrar, The LNM Institute of Information Technology, Jaipur
- 5 Prof. Ganesh Datt Sharma, Department of Physics, The LNM Institute of Information Technology, Jaipur
- 6 Sanction folder.


(Dr. Arvind Kumar)
Scientist "E"

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~~Sept~~ Sept 2018

(RESULT BRICS CALL 2017)

**Provisional List of scientifically recommended Projects for
BRICS CALL 2017 under BRICS STI Cooperation**

S. No.	Registration No. and Acronym	Full title	Country	PI Name and Organisation
Material science including nanotechnology				
1.	BRICS2017-146 IEEE-OSC	Interface-engineered and energy-efficient organic solar cells based on porphyrin small molecules	INDIA	Sai Santosh Kumar Raavi, Department of Physics, Indian Institute of Technology Hyderabad
			BRAZIL	Prof. Paulo B. Miranda, Polymer Group, University of Sao Paulo Sao Carlos Physics Institute
			CHINA	Prof. Xiaobin Peng, State Key Laboratory of Luminescent Materials and Devices, South China University of Technology
2.	BRICS2017-150 EPNAPT	Engineering peptide-based nanobiomaterials for antitumor photodynamic therapy	INDIA	Thimmaiah Govindaraju, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore
			RUSSIA	Rawil Fakhrullin, Kazan Federal University, Institute of fundamental medicine and biology
			CHINA	Xuehai Yan, Chinese Academy of Sciences, Institute of Process Engineering
3.	BRICS2017-191 BNEAT	Energy Band and Nanostructure Engineering of AlV-BVI — based Thermoelectrics for Efficient Heat Energy Conversion	INDIA	Kanishka Biswas, New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur, Bangalore, 560064
			RUSSIA	Prof. Alexander Burkov, Head of the laboratory for physics of thermoelements, Ioffe Institute, Politekhnikeskaya 26, Saint-Petersburg 194021, Russia.
			CHINA	Prof. Yanzhong Pei, Professor, School of Materials Science and Engineering, Tongji University (Jiading Campus) 4800 Caoan Road, Shanghai 201804, China
4.	BRICS2017-258 EMPMM	Electronic and magnetic properties of multiferroic materials	INDIA	A. Sundaresan Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore
			RUSSIA	Alexander Pyatakov, Physics Department, Moscow State University
			CHINA	Ren Wei MGI / Physics, Shanghai University

5.	BRICS2017-390 SCBCPCVD	Silicon Carbide Biomedical Coatings Prepared By Chemical Vapor Deposition	INDIA	Bikramjit BASU, Materials Research Centre ,Indian Institute of Science. Bangalore
			RUSSIA	Marina KOSINOVA Nikolaev, Institute of Inorganic Chemistry, Russian Academy of Sciences, Siberian Branch
			CHINA	Rong TU, Wuhan University of Technology State Key Lab of Advanced Technology for Materials Synthesis and Processing
6.	BRICS2017-433 NFSMAFPSC	Development of efficient polymer solar cells based on non fullerene small molecules acceptors with low energy loss	INDIA	Ganesh D. Sharma, The LNM Institute of Technology, Physics department. Jaipur, India
			RUSSIA	Prof. A.R. Khokhlov, Members of Russian Academy of Sciences, A.N. Nesmeyanov Institute of Organoelement Compounds of Russian Academy of Sciences (INEOS RAS), Laboratory for Polymer Physics (LPP), Moscow, Russia
			CHINA	Prof. Chuandong Dou, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China.
7.	BRICS2017-617 FDDLDC	Fracture and delamination under dynamic loading	INDIA	P. Venkitanarayanan, Department of Mechanical Engineering, Indian Institute of Technology Kanpur, India,
			RUSSIA	Yuri Petrov, Department of Elasticity Mathematics & Mechanics St.Petersburg State University
			CHINA	Ya-Pu Zao, State Key Laboratory of Nonlinear Mechanics, Institute of Mechanics, Chinese Academy of Sciences
8.	BRICS2017-624 FAIE	Fluxes-Assisted Inclusion Engineering: Applications in Low-carbon Low-alloy Shipbuilding Plates	INDIA	Somnath Basu Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai
			CHINA	Cong Wang, North eastern University School of Metallurgy Shenyang CHINA 110819
			SOUTH AFRICA	Theresa Coetsee, University of Pretoria Department of Materials Science and Metallurgical Engineering Pretoria SOUTH AFRICA
9	BRICS2017-663 Optonospln	Nanostructures with large magneto-optical activity and spin-orbit interaction	INDIA	Venu Gopal Achanta, Tata Institute of Fundamental Research, Mumbai
			RUSSIA	Vladimir I Bclotclov, International Center for Quantum Optics & Quantum Technologies, Moscow, Russia
			CHINA	Yujun Song, University of Science and Technology Beijing, China

Biotechnology and Biomedicine including human health and neuroscience				
10.	BRICS2017-053 TherNC	Biofunctional nanocomplexes for theranostics combined therapy of solid cancer	INDIA	Indrajit Roy, Department of Chemistry, University of Delhi, Delhi
			RUSSIA	Prof. Andrei V Zvyagin, Centre of Optical Theranostics, Institute of Biology and Biomedicine, Lobachevsky Nizhny Novgorod State University
			CHINA	Prof. Quan Lin, State Key Lab of Supramolecular Structure & Materials, College of chemistry, Jilin University
11.	BRICS2017-209 GPCRArrSig	Understanding the structural basis of biased GPCR signaling to develop novel therapeutics with minimized side-effects	INDIA	Arun Shukla, Indian Institute of Technology, Kanpur
			RUSSIA	Prof. Vadim Cherezov, Moscow Institute of Physics and Technology, State University, Russia
			CHINA	Prof. Haitao Zhang, College of Pharmaceutical Sciences, Zhejiang University, China
12.	BRICS2017-236 CCT	Development of the dual inhibitors targeting Wnt signaling as colorectal cancer therapeutics	INDIA	Dr Ahmed Kamal, Pro Vice Chancellor, Jamia Hamdard (Hamdard University), New Delhi 110 062.
			RUSSIA	Dr. Palyulin, Vladimir A. Department of Chemistry, Lomonosov Moscow State University, Moscow 119991 Russia
			SOUTH AFRICA	Prof. Vinees Pillay, Head: Pharmaceutics and Pharmaceutical Research University of the Witwatersrand,
13.	BRICS2017-435 MRP-TB	Multidisciplinary research platform to identify new TB drug targets	INDIA	Shekhar C Mande, National Centre for Cell Science, Pune University
			CHINA	Shiyun Chen, Wuhan Institute of Virology, Chinese Academy of Sciences
			SOUTH AFRICA	Adrie JC Steyn, Africa Health Research Institute (AHRI), Exploratory Science Division,
14.	BRICS2017-526 MBLI	Development of new approaches to overcome MBL-related resistance in bacteria	INDIA	Jayanta Haldar, New Chemistry Unit (NCU), Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur, Bangalore 560064
			BRAZIL	Cristiano Marcelo, Espinola Carvalho, Dom Bosco Catholic University (UCDB), Department of Biotechnology, Campo Grande, 79117-900, Brazil\
			RUSSIA	Tatiana V. Ovchinnikova, M.M. Shemyakin & Yu.A. Ovchinnikov Institute of Bioorganic Chemistry Russian Academy of Sciences (IBChRAS)
			CHINA	Jixen Xie, East China University of Science and Technology (ECUST), Shanghai, 200237 China

New and Renewable Energy and energy efficiency				
15.	BRICS2017- 064 - RICS-MH	Metal hydride materials and systems for the increase of efficiency in renewable and hydrogen energy	INDIA	Muthukumar Palanisamy, Indian Institute of Technology Guwahati
			RUSSIA	Boris Tarasov, Institute of Problems of Chemical Physics RAS
			CHINA	Xiao Fangming, Guangdong Research Institute of Rare Metal
			SOUTH AFRICA	Mykhaylo Lototsky, University of the Western Cape
16.	BRICS2017-116 ICP-BIO	Development of fundamentals for Integrated Catalytic Processing of BIOMass to fuels and value-added chemicals	INDIA	Bhalchandra M. Bhanage, Department of Chemistry, Institute of Chemical Technology, Mumbai
			BRAZIL	Prof. Simoni Margareti, Plentz Meneghetti, Group of Catalysis and Chemical Reactivity, Institute of Chemistry and Biotechnology, Federal University of Alagoas, Brazil
			RUSSIA	Prof. Dr. Esther M. Sulman Tver State University, Tver, Russia
17.	BRICS2017-418 BRICS-BEST	BRICS technology platform for integrated bioprocessing of agricultural residues for eco-sustainable production of biofuels and by-products	INDIA	Dr. Sudesh K Yadav Center of innovative and Applied Bioprocessing (CIAB), Mohali
			BRAZIL	Department of Bioprocess Engineering and Biotechnology (DEBB) of Federal University of Paraná (UFPR), Curitiba, Paraná, (Brazil)
			RUSSIA	AN Bach Institute of Biochemistry (INBI RAS) MSU- MV Lomonosov Moscow State University, Faculty of Chemistry, Department of chemical enzymology
			CHINA	College of Chemical Engineering and Material Sciences, College of Biotechnology, Tianjin University of Science & Technology, TEDA, Tianjin
			SOUTH AFRICA	Dept of Biotechnology and Food Technology, Durban University of Technology
18.	BRICS2017-422 REMULFUN	Renewable Energy Based Multifunctional Solid Sorption Thermal Battery for Year-Round Building Thermal Management for Diverse Climatic Conditions of Russia, India and China	INDIA	Prof. Pradip Dutta Heat Transfer Laboratory Department of Mechanical Engineering, Indian Institute of Science, Bangalore-560012
			RUSSIA	Prof. Yuri ARISTOV (PI) Borekov Institute of Catalysis Siberian Branch of the Russian Academy of Sciences Lavrentieva Av., 5 Novosibirsk 630090 Russia
			CHINA	Prof. Li Tingxian (PI) Institute of Refrigeration and Cryogenics Shanghai Jiao Tong University (SJTU) 800 Dongchuan Road, Shanghai 200240, China
19.	BRICS2017-591 LargEWiN	Design and Development of Large-Scale Ambient Energy Harvesting Wireless Networks	INDIA	Prabhat Kumar Upadhyay Indian Institute of Technology Indore
			BRAZIL	Daniel Benevides da Costa Federal University of Ceará (UFC), Brazil Department of Computer Engineering Costa