

No. DST/INT/JSPS/P-316/2020

Government of India
Ministry of Science and Technology
Department of Science & Technology
(International Cooperation Division)

Technology Bhavan,
New Mehraulli Road
New Delhi-110016
Date: ~~30-09-2021~~

30/07/2021

ORDER

Subject: Implementation of Indo-Japanese Joint project entitled: "Origin, specificity and molecular systematics of bopyrid isopods infecting penaeid shrimps and the host immune response" coordinated Dr. Sudha Kappalli with the Japanese partner Dr. Gyo Itani - regarding.

Sanction of the President is hereby accorded for incurring an expenditure not exceeding Rs. 6,16,600/- (Rupees Six Lakhs Sixteen Thousand Six Hundred only) for implementation of Indo-Japanese project entitled, "Origin, specificity and molecular systematics of bopyrid isopods infecting penaeid shrimps and the host immune response" coordinated Dr. Sudha Kappalli, Associate Professor, Department of Animal Science, Central University of Kerala, Kasaragod (DT), Pin-671316, Kerala in collaboration with Dr. Gyo Itani, Laboratory of Marine Symbiotic Biology, Faculty of Education, KOCHI University, Japan for a total duration of 2 years from the date of issue of the sanction order.

2. As per the terms and conditions, agreed by both side, under the project the sending side will bear the cost related to the International air travel, medical insurance and visa charges whereas the receiving side shall bear the cost of accommodation, hospitality and local travels of the visiting scientist. The break-up of approved expenditure is as indicated below:

Items of Expenditure	1 st Year		2 nd Year	Total
	1 st Six Months	2 nd Six Months		
Visit from India to Japan:				
Number of Visits and duration for each visit	Nil	2 visits (30 days each)	2 visits (30 days each)	4 visits
International to & fro Airfare by economy class including airport taxes @Rs. 80,000 x 2(as per actuals)	Nil	1,60,000/-	1,60,000/-	3,20,000/-
Related local travel in India from city parent institute to the nearest International Airport	Nil	10,000/-	10,000/-	20,000/-
Visa Fee @Rs. 2,000/-	Nil	4,000/-	4,000/-	8,000/-

U. Tikey

all

Overseas medical insurance@ Rs. 3000/- each	Nil	6,000/-	6,000/-	12,000/-
Visits from Japan to India:				
Number of Visits and duration for each visit	Nil	2 visits (30 days each)	2 visits (30 days each)	4 visits
Accommodation in guest house @Rs. 555/-	Nil	33,300/-	33,300/-	66,600/-
Per diem @ Rs. 1000/- per day	Nil	60,000/-	60,000/-	1,20,000/-
Local travel in India between the host institute and the nearest International Air Port	Nil	10,000/-	10,000/-	20,000/-
Contingency		25,000/-	25,000/-	50,000/-
Total		3,08,300/-	3,08,300/-	6,16,600/-

3. As is indicated in the above table, as of now, no release is being made. Sanction of the President is hereby accorded for release of 1st instalment (first six months) amounting to nil to the grantee Institute. **The release will be made after appraisal and approval of Umbrella Scheme (Research & Development) as directed by Department of Expenditure's OM dated 9.2.2021.**

Condition for placing of grant amount:

4. The institute will maintain separate audited account for the project and the amount of grant will be kept in a bank account earning interest. For Grants released during FY 2017-18 and onwards, all interest 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 grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/Utilization Certificate for considering subsequent release of grant/ closure of project accounts.

Conditions for submission of SE/UC and Progress report:

5. (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 (SE) 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 Utilisation 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;

6. 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.

U. T. Meey

7 (a) 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.

(b) It is Mandatory for the grantee organisation to implement EAT module of PFMS for monitoring of expenditure and release of further grant.

Conditions of Assets (if any):

8 (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.

(c) Goods (consumables/equipment) available in GeM portal are to be procured mandatorily online through Gem only as per the provisions of Rule 149 of GFR.

Conditions for International Visits:

9. 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.

10. As per Ministry of Finance, Department of Expenditure vide Office Memorandum No.19024/22/2017-E.IV dated 19th July, 2017, 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 and air ticket, may be purchased directly from airlines (viz. Air India) at booking counters/website of airlines or from 3 authorized travel agents namely M/s. Balmer Lawrie & Company Limited, M/s. Ashok Travels & Tours and IRCTC only. 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:

11. 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.

12. 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.

13. In case the scheme provides for payment of honorarium / remuneration / fellowship / scholarship to the PI, a para may suitably be incorporated in the DSO to the effect that "PI is not drawing any emoluments/ salary/fellowship from any other project either supported by DST or by any other funding agency.

U. Tikey

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

15. The expenditure involved is debit to Demand No.88, Department of Science & Technology for the year 2021-22:

3425	:	Other Scientific Research (Major Head)
60	:	Others
60.798	:	International Cooperation (Minor Head)
14	:	Research and Development
14.00.31	:	Grants-in-aid General for the year 2021-22 (Plan)
(Previous: ICD-3425.60.798.12.00.31)		


16. This sanction order being 1st instalment for implementation of this project, no SE/UC is due from the grantee institution against this project.

17. Continuation of the Project beyond 31st March, 2021 will be subject to appraisal and approval of the continuation of the Umbrella Scheme "Research and Development" under which the Project is funded.

18. This issues with the concurrence of IFD vide their concurrence Dy. No. C/1055/IFD 2021-22 dated 09.07.2021.

9

19. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 63...in the register of grants maintained in the Division.



(Ujjwala T. Tirkey)
Scientist 'G'

To,

The Pay & Accounts Officer,
Department of Science & Technology,
New Delhi-110016

Copy to:

1. Office of the Principal Director of Audit, AGCR Bldg., IP Estate, New Delhi-110002
2. Cash Section (3 copies), DST
3. I.F. Division/Accounts Section, DST
4. Sanction Folder
5. Project File.
6. Registrar, Central University of Kerala, Kasaragod (DT), Pin-671316, Kerala
7. Dr. Sudha Kappalli, Associate Professor, Department of Animal Science, Central University of Kerala, Kasaragod (DT), Pin-671316, Kerala


(Ujjwala T. Tirkey)
Scientist 'G'

**Department of Science & Technology
(International Co-operation Division)**

India-Japan (DST-Japan Society for the Promotion of Science) Cooperative Science Programme (JCSP)-2019 Joint call for Proposals was issued by the Department of Science and Technology (DST), Ministry of Science & Technology, Government of India and Japan Society for the Promotion of Science (JSPS), Japan for inviting joint research projects and workshops carried out by Indian and Japanese researchers on the mutually agreed areas of i) Fundamental Sciences: Physical and Chemical Systems ii) Materials and System Engineering: Man-made Systems iii) Natural Systems: Life Sciences and Bioengineering Sciences iv) Astronomy, Space, Earth System and Sciences and v) Mathematics and Computational Science

2. The last date for submitting the proposals was 4th September, 2019. A total of 134 common joint research project proposals and 8 workshop proposals were received against the call. These proposals were peer reviewed and ranked separately by Indian and Japanese experts. After judicious assessment based on scientific strength, technical aspects, project objectives and national priorities of both the countries, Department of Science and Technology (DST), India and Japan Society for the Promotion of Science (JSPS), Japan have jointly decided to support 20 joint research project and 4 joint workshop/seminars.

3. We are pleased to inform you that 20 joint projects, and 4 joint seminars have been recommended for implementation for the period 2020-2022 under DST- JSPS program between India and Japan. These are mobility based projects in which the sending side would provide the international travel cost and receiving side will provide local hospitality. Due to the current pandemic, we are not envisaging any visit in this financial year. Funding of these projects will start after coming out of present COVID-19 pandemic. The scientists on two sides are expected to collaborate using available resources (manpower, consumables, equipment etc.) at their end through institutional sources or externally funded projects.

List of Joint Research Projects

Fundamental Sciences: Physical and Chemical Systems

S. No.	Title of the Project	Indian PI Name and Institute Details	Japanese PI Name and Institute Details
1.	Ultrafast hot-carrier energy distribution and relaxation in metal nano-structures	Dr Parinda Vasa Associate Prof. Indian Institute of Technology, Bombay	Prof. Kaoru Yamanouchi The University of Tokyo
2.	Charge- and Spin-Blockade in Ultrathin-Layers of Single Molecule Magnets	Prof. Amlan Pal Indian Association for the Cultivation of Science, Kolkata, West Bengal	Assistant Professor Megumi Akai-Kasaya Osaka University

Materials and System Engineering: Man-Made Systems

3	Solution Processed Up-conversion Luminescent Nanoparticle Self-assembly for Development of Electron Beam Excitation Assisted High-resolution Optical Microscope	Dr Dheivasigamani Thangaraju Assistant Prof. PSG Institute of Technology and Applied Research, Neelambur, Coimbatore Tamilnadu	Prof. Yoshimasa Kawata National University Corporation Shizuoka University
4.	Preparation of Next Generation Nanovaccine using Multifunctional Glycans for Cancer Immunotherapy	Dr Rajesh Kumar Gupta Associate Prof. Dr. D. Y. Patil Biotechnology & Bioinformatics Institute, Mumbai Bangalore Express Highway, Pune Maharashtra	Associate Prof. Eiji Yuba Osaka Prefecture University
5.	Development of InAlN/GaN high electron mobility transistor prototype for mm-wave electronic applications	Dr Biplab Sarkar Assistant Prof. Indian Institute of Technology Roorkee, Uttarakhand	Prof. Hiroshi Amano, Nagoya University
6.	Development of high energy density asymmetric supercapacitor using chemically derived mesoporous graphene-based composites materials	Dr Tapas Kuila Senior Scientist CSIR-Central Mechanical Engineering Research Institute, Durgapur, West Bengal	Associate Prof. Hirofumi Yoshikawa Kwansei Gakuin University
7.	Design and fabrication of GaN based THz Solid State Source	Dr Arindam Biswas, Assistant Prof. Kazi Nazrul University, West Bengal	Prof. Hiroshi Inokawa, National University Corporation Shizuoka University
8.	Photo-catalytic dye degradation for industrial (textile) waste management	Dr Kaushik Ghosh Associate Prof. Institute of Nano Science & Technology, Mohali, Punjab	Prof. Takahiro Maruyaya Meijo University
9.	Hot Electron Transfer in Semiconductor Nanocrystals for Artificial Photosynthesis	Prof. Challapalli Subrahmanyam Indian Institute of Technology Hyderabad, Kandi, Sanga Reddy Telangana	Prof. Vasudevan Pillai Biju Hokkaido University
10.	Design and Development of Self Powered Selective Collection of Rare earth Elements	Prof. Bosco John Balaguru, SASTRA Deemed University,	Prof. Kazuyoshi Tsuchiya Tokai University

	from Sea Water	Tirumalaisamudram Thanjavur, Tamilnadu	
--	----------------	---	--

Natural Systems: Life Sciences and Bioengineering

11.	Biocementation for the improvement of sloppy regions in India using biopolymers	Dr Kamini Numbi Ramadu , Principal Scientist & Head Central Leather Research Institute, Chennai, Tamilnadu	Associate Prof. Kazunori Nakashima Hokkaido University
12.	Drug discovery targeting cysteine biosynthesis: chemical library screening and structural elucidation	Prof.Samudrala Gourinath Jawaharlal Nehru University, New Delhi	Prof. Tomoyoshi Nozaki The University of Tokyo
13.	Origin, specificity and molecular systematics of Bopyrid isopods infecting Penaeid shrimps and the host immune response	Dr Kappalli Sudha Associate Prof. Central University of Kerala, Kasaragod, Kerala	Associate Prof.Gyo Itani Kichi University
14.	Generation of photosynthetic mutants with high light tolerance	Prof. Rajagopal Subramanyam University of Hyderabad, Telangana	Prof. Yuichiro Takahashi Okayama University
15.	Dynamic evaluation of pharmaceutical contamination and antibiotic bacteria in Indian river	Dr Debraj Bhattacharyya Associate Prof. Indian Institute of Technology, Hyderabad, Telangana	Prof. Hiroyuki Futumata National University Corporation Shizuoka University

Astronomy, Space, Earth System and Sciences

16.	Unveiling the physical structure and chemical composition of hot molecular cores by observation and astrochemical model	Dr Ankan Das Assistant Prof. Indian Centre for Space Physics, Kolkata, West Bengal	Assistant Prof. Takashi Shimonishi Tohoku University
-----	---	--	--

Mathematics and Computational Sciences

17.	Spectrum defragmentation management in elastic optical networks using machine learning	Dr Bijoy Chand Chatterjee Assistant Prof. South Asian University, Delhi	Prof. Eiji Oki Kyoto University
18.	Learning with Limited Labeled Data: Solving the Next Generation of Machine Learning Problems	Associate Prof.Vineeth N Balasubramanian , Indian Institute of Technology, Hyderabad, Telangana	Prof.Tatsuya Harada , The University of Tokyo

19	Mathematical Modeling for Advanced Wave Analysis and Engineering Applications	Prof. Sushil Kumar Tomar Panjab University, Chandigarh	Prof. Soichi Hirose Tokyo Institute of Technology
20.	Surface groups and geometric structures	Dr Krishnendu Gongopadhyay Associate Prof. Indian Institute of Science Education and Research, Mohali, Punjab	Prof. Kenichi Ohshika Gakushuin University

List of Joint Research Workshops

S. No.	Title of the Project	Indian PI Name and Institute Details	Japanese PI Name and Institute Details
Fundamental Sciences			
1.	Cluster science by interdisciplinary approach: Emerging materials and phenomena	Prof. Pradeep Thalappil IIT Madras, Chennai Tamilnadu	Prof. Tatsuya Tsukuda, The University of Tokyo
2.	Indo-Japan Workshop on Interface phenomena for spintronics	Prof. Subhankar Bedanta National Institute of Science Education and Research, Odisha	Prof. Koki Takanashi, Tohoku University
Astronomy, Space, Earth System and Sciences			
3.	Managing the Water-Energy-Food Nexus in Semi-arid Areas of India under Climate Change	Prof. V Jothiprakash IIT Bombay, Mumbai Maharashtra	Prof. Koichi Fujita Kyoto University
Materials and System Engineering: Man-Made Systems			
4.	India Japan Workshop on Biomolecular Electronics and Organic Nanotechnology for Environment Preservation (IJWBME 2020)	Prof. Parameswar K Iyer IIT Guwahati, Assam	Prof. S Kishida, Nagoya University