

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

An Indo-Israeli Joint call for Proposals was issued by the Department of Science and Technology (DST), Ministry of Science & Technology, Government of India and Ministry of Science and Technology, Israel under the Indian-Israeli Joint Research Cooperation Programme (IIJRC)-2020-2022 for inviting joint research projects carried out by Indian and Israeli researchers on the mutually agreed areas of (i) Advanced materials for next gen solar energy utilization and storage(ii) Quantum devices for sensing imaging and communication

2. The last date for submitting the proposals was 5th December, 2019. A total of 54 common proposals were received against the call. 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 Ministry of Science and Technology, Israel have jointly decided to support the following 8 proposals. Project coordinators are being informed separately to complete administrative formalities for release of DST grant.

3. The duration of the project will be 2 years. These are full cost 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. The Indian side would provide the following support to the Indian Project Investigators:

- Cost towards International fare including visa charges and medical insurance
- Living expenses to visiting Indian scientists to Israel and accommodation charges of the Indian Scientists will be provided by Israel.
- Per diem and accommodation charges to Israeli scientists
- Manpower, Minor equipment and consumables etc.

List of Selected Projects under India-Israel Call for Proposal 2019

S. No.	Project Title	Indian PI Details	Israeli PI Details
1	Mono-and Bimetallic Complexes for energy Relevant Photocatalysis	Prof. Sankar Prasad Rath Indian Institute of Technology Kanpur, Uttar Pradesh	Prof. Zeev Gross Blum Professor of Chemistry Technion-Israel Institute of Technology
2	Novel Electron and Hole Transport Materials for Perovskite Solar Cells	Dr. Lingamallu Giribabu CSIR Indian Institute of Chemical Technology Hyderabad, Telangana	Prof. Lioz Etgar The Institute of Chemistry, The Hebrew University of Jerusalem
3	Low Cost Stable Lithium Sulphur Batteries for Solar Energy Storage	Dr. Manuel Stephan CSIR-Central Electro- Chemical Research Institute, TamilNadu	Prof. Emanuel Peled Department of Physical Chemistry, Tel Aviv University
4	Mixed-dimensional and hybrid bilayered perovskites for high stability and high efficiency photovoltaic devices	Dr. Ishita Neogi CSIR National Institute for Interdisciplinary Science and Technology, Kerala	Prof. Nir Tessler Department of Electrical Engineering, Technion Israel Institute of Technology

5	Tuning Solid Electrolytes for Efficient Solid State Li-Ion Batteries	Prof. Sagar Mitra IIT Bombay, Maharashtra	Dr. Malachi Noked Chemistry Department, Lab of Functional Thin Films for Electrochemical Bar Ilan University
6	A Halide Perovskite Based Photoanode for Oxygen Evolution Reaction Using a Molecular Diode in a Hybrid Nanometer Scale Protection Layer	Dr. Satyajit Gupta IIT Bhillai, Chhattisgarh	Dr. Eran Edri Department of Chemical Engineering, Ben-Gurion University of the Negev
7	Deposition of Metal Oxides on Halide Perovskites for PV Cells	Prof. Shaibal K Sarkar IIT Bombay, Maharashtra	Prof. Yitzhak Mastai Department of Chemistry, Bar Ilan University
8	Generation, Manipulation and Quantum-Optics Applications of Non-Classical Structured Light	Prof. Ravindra Pratap Singh Physical Research Laboratory, Gujarat	Prof. Ady Arie School of Engineering, Tel Aviv University