GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE AND TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION NO.2361
TO BE ANSWERED ON 30/11/2016

INDO ISRAELI RESEARCH

2361. SHRI PRALHAD JOSHI:

Will the Minister of SCIENCE ANDTECHNOLOGY विज्ञान और प्रौद्योगिकी मंत्री **be pleased to state:**

(a) whether financial support is being provided by the Government for joint research activities carried out by Indian and Israeli researchers and if so, the details thereof;

(b) the research areas for which funding will be provided;

(c) details about number of projects and the funds allocated for these projects; and

(d) the objectives that the Government seeks to achieve by sponsoring the said joint research programme?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY AND MINISTER OF STATE IN THE MINISTRY OF EARTH SCIENCES
(SHRI.Y. S. CHOWDARY)
विज्ञान और प्रौद्योगिकी मंत्रालय में राज्य मंत्री और पृथ्वी विज्ञान मंत्रालय में राज्य मंत्री
(श्री वाई. एस. चौधरी)

(a) Yes, Madam. The working program signed between two countries in March 2010 for establishing S&T collaboration between two countries provides mechanism to extend financial support for undertaking joint research activities by Indian and Israeli researchers through various modes viz. i) joint research and development (R&D) projects; ii) exchange visit of scientists and researchers; and iii) organization of bilateral symposium, seminars and workshops.

(b) Currently, a call for proposal is open for Indian and Israeli researchers to jointly submit research proposals in areas of (i) Big Data Analytics in Healthcare; and (ii) Security in Cyber Space for which an allocation of Rs. 4 crores to support up to 10 joint projects for a period of 2 years has been made.

(c) Presently, seven joint research projects in the areas of Material Engineering (energy storage/renewable energy); and Chemical Engineering (chemical processes and biotechnological aspects of renewable energy production) are under implementation. The details of the project with funds allocated against each are as given at Annex-1.

(d) The joint research programme between the two countries will boost India-Israel S & T Cooperation in advancing cutting edge scientific knowledge in areas of science and engineering through implementation of joint research projects by Indian & Israeli researchers in focused areas of bilateral importance.

Annex - 1

List of Indo-Israel Joint Project

S. No.	Title of Project with date of sanction	Indian PI & Institution	Israeli PI & Institution	Budget (in Rs)
(1)	(2)	(3)	(4)	(5)
Material Engineering – Energy Storage/renewable energy				
1	**CO_2 Methanation on Hexagonal Cobalt Nanoparticles Embedded over Carbon Nanodisks and Crystalline Mesoporous Carbon/Silica Composite 22.12.2014**	**Dr. G. Satish Kumar Materials Chemistry Division, School of Advanced Sciences, VIT University, Vellore-632 014, Tamilnadu**	**Dr. Miron V. Landau Department of Chemical Engineering, University of The NegevBeer-Sheva**	**16,78,000/-**
2	**Enhancing the cycling stability and rate performance of positive materials for Li-ion and Na-ion batteries 23.12.2014**	**Dr. N. Munichandraiah Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore**	**Dr. Doron Aurbach Department of Chemistry Bar Ilan University**	**29,65,160/-**
3	**Spectroscopic Investigation of the Core-Shell and Ternary Quantum Dots for Quantum Dot Solar Cells 9.12.2014**	**Dr. Sayan Bhattacharyya Dept of Chemical Sciences Indian Institute of Science Education & Research, Kolkata, Mohanpur Campus Mohanpur - 741252 West Bengal**	**Prof. Daniel H. Rich Department of Physics Ben-Gurion University of the Negev**	**21,13,930/-**
4	**Development of plasmonic metal hybrid electrode system for II-VI quantum dot sensitized solar cells (QDSSCs): realization of carrier multiplication for better efficiency 22.12.2014**	**Dr. Ambesh Dixit Dept. of Center for Energy Indian Institute of Technology Jodhpur Old Residency Road, Ratanada, Jodhpur, Rajasthan, 342011**	**Prof. Arie Zaban Chemistry Department & Nanotechnology Institute Bar-Ilan University**	**32,87,228/-**
Chemical engineering - Chemical processes and biotechnological aspects of renewable energy production				
5	**High Voltage Hybrid Perovskite Solar Cells – from Device to Stability - 02.01.2015**	**Dr. Shaibal K Sarkar Dept of Energy Science and Engineering Indian Institute Of Technology Bombay Powai, 400076 Mumbai**	**Dr. David Cahen Dept of Materials and Interface Weizmann Institute of Science**	**20,70,000/-**
Mechanical engineering - Generation/production of renewable fuels for transportation				
6	**Novel Production Methodologies, detailed Physico-Chemical Characterization and Droplet Combustion Studies of Biodiesel from microalgae & waste cooking oils for Engine applications 23.12.2014**	**Prof. R. V. Ravikrishna Combustion and Spray Laboratory Dept of Mechanical Engineering Indian Institute of Science, Bangalore-560 012**	**Prof. Aharon Gedanken Department of chemistry Bar-Ilan University**	**20,70,000/-**
7	**Numerical and Experimental studies of Swirl stabilized Hydrigen Fueled Combustor 13.01.2015**	**Prof. Debiprasad Mishra Dept. of Combustion Laboratory Indian Institute of Technology, Kanpur**	**Prof. Steven Frankel Dept. of Computational Fluid Dynamics Laboratory, Technion Institute of Technology, Israel**	**29,61,000/-**

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