

**GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE & TECHNOLOGY
INDIA-ISRAEL S&T COOPERATION PROGRAMME
CALL FOR PROPOSALS-2011**

DEADLINE DATE FOR SUBMITTING PROPOSALS: 7th October, 2010

The Department of Science and Technology (DST), Ministry of Science & Technology, Government of India, New Delhi and the Office of Chief Scientists(OCS), Ministry of Science & Technology, Government of Israel, Jerusalem to promote bilateral scientific collaboration between India and Israel. Applications are invited from eligible Indian researchers /scientists to submit proposals for joint projects.

Areas of cooperation : The support is available to the following scientific areas :

- Solar Energy (Thermal and Photovoltaic)
- Information & Communication Technology (Imaging and Robotics)

Who can apply : The joint application must include one Indian and one Israeli Principal Investigators, who would be responsible for technical as well as administrative co-ordination of the project and its periodic scientific and financial reporting to the DST/ OCS respectively.

The Principal Investigator (PI) and other investigators in India should be scientists/ faculty members working in regular capacity in UGC recognized Universities/ Deemed Universities/Academic Institutes and National Research & Development Laboratories/ Institutes. It is preferred that a member of the project team may be designated as Co-PI. The Israeli PIs must be full time researchers employed at Universities or other research institutions recognized by OCS. Further details in respect of Israeli participants OCS website <http://www.most.gov.il/> may be referred to.

Kind of support available : DST provides the following support under the Programme:

For Indian Researchers – Cost of International airfare to and from the designated research location, visa fee, air port taxes, overseas medical insurance premium for the approved visit duration and airport transfers in India, Consumables, manpower(JRF etc) and minor equipments .

For Israeli Researchers – Costs of accommodation in a guest house, per diem and domestic travel expenses in India including airport transfers as per DST norms.

Processing : The format for joint project proposals and other details are available at the websites: www.stic-dst.org.in or www.dst.gov.in. one soft copy(word file) and 3 copies of the proposals may be submitted by Indian researchers in the prescribed format on or before the given deadline through proper channel to :

Dr Naveen Vasishtha, Scientist, International Division, Department of Science & Technology, New Mehrauli Road, New Delhi-110016 Israeli Principal Investigators need to submit proposals with a matching research plan to OCS simultaneously.

Israeli Researchers are requested to contact OCS for their application submission period, documents to be submitted etc. The website: <http://www.most.gov.il/> may be referred for details.



MINISTRY OF SCIENCE

AND TECHNOLOGY

STATE OF ISRAEL



MINISTRY OF

SCIENCE AND TECHNOLOGY

INDIA

**INDIA-ISRAEL SCIENTIFIC RESEARCH COOPERATION
Call for Project Proposals**

2011-2012

1. Within the framework of the Israeli-Indian Agreement on scientific cooperation, the India Ministry of Science and Technology ("the Indian Ministry") and the Israel Ministry of Science and Technology ("the Israeli Ministry") provide financial support for joint research projects carried out by Israeli and Indian scientists. Indian-Israeli research teams are hereby invited to submit joint proposals on the topics detailed below.

- SOLAR ENERGY -THERMAL and PHOTOVOLTAIC
- INFORMATION and COMMUNICATION TECHNOLOGIES (ICT):
IMAGING and ROBOTICS

III. B. MODE OF COOPERATION

Cooperation may take the form of:

- joint research activities where interdependent subprojects of a single program are conducted in the Indian and the Israeli laboratories;
- complementary methodological approaches to a joint problem;
- joint use of research facilities, materials, equipment and/or services by cooperating scientists;
- joint planning of research and evaluation of results

IV. C. LEVEL OF FUNDING AND PROJECT DURATION

The total amount of funding for the two years of the project **is 400,000 USD** for the Israeli side **and matching grants will be provided by the Indian side.**

Support will be given to up to **8** joint projects requiring a budget of up to **25,000 USD per year from the Israeli side and up to Rs. 12 lakhs per year from Indian side.** Projects should be planned on a **two year basis.** Contracts will be signed accordingly. The final

decision of the budget allocated to each project will be made at the final stage of the evaluation process, when the joint projects are chosen.

V. D. Eligibility

1. Proposals must involve a Principal Investigator and Co-Principal Investigator from each country.
2. The Principal Investigator on each side must be affiliated with an academic institution or research institute. Researchers from industry may take part in the program as partners in teams headed by Principal Investigators from an academic institution or research institute.
3. The Principal Investigator and the affiliated Research Authorities are expected to take responsibility for the execution of the research work throughout the duration of the project.
4. The application forms in Israel should be submitted electronically to the following E-mail: India@most.gov.il (in 'pdf' or 'doc' format) and in India to the following nvasishta@nic.in (in MS Word format indicating file name as name & area code)
5. In addition to the electronic submission proposals, application form and accompanying material should be submitted in English in 6 copies to the Israeli Ministry and in 3 copies to the Indian Ministry to the following addresses:

ISRAEL

Mr. Avi ANATI

Deputy Director General for Planning & Control
Ministry of Science & Technology
P.O. Box 49100
Jerusalem 91490
Tel: 02-5411170/3
Fax: 02-5823030
E-mail: avi@most.gov.il

INDIA

Dr. Naveen Vasishta

Scientist
International Division
Department of Science & Technology,
Technology Bhavan,
New Mehrauli Road,
NEW DELHI-110016
Tel: 011- 26963159 (Direct)
Extn 449 OR 26590449 (direct dialing)
Fax No.- 011-26862418
E-mail: nvasishta@nic.in

This call for proposals and application forms are available at the following internet addresses:

www.dst.gov.in & www.stic-dst.org.in , <http://www.most.gov.il/>

All applications, including all relevant materials and attachments, must be received not later than **7 October 2010 until 12:00 AM.**

VI. E. Mutual Visits

Participating scientists are encouraged to spend an extended period of time visiting their counterparts' institutions. So long as the visits are an integral part of research collaboration, international travel and in-country living expenses of visiting scientists may be included in the project budgets. International travel costs should be included in the budget of the visiting side, while in-country living expenses should be included in the budget of the host side. The visits must take place in India or Israel only. Visits to third countries may not be included in the budget of the project.

The total duration of visits in one direction, which will be funded, is not more than one month per year. (Two visits per year from each side will be supported)

VII. F. Proposals Review

The joint research proposals will be subject to scientific review by each Ministry in accordance with its evaluation mechanism. Based on the evaluation results, the two Ministries will agree upon the list of 8 jointly funded projects.

Evaluation of proposals will be based on the following criteria:

1. Conformity with the definition of program research topics presented above;
2. Significance (quantitative whenever relevant) of the problem being addressed, and the potential impact of the proposed approach on solving it. (Proposals should address these issues explicitly and provide as much evidence as possible.)
3. Scientific merit, with emphasis upon the originality and novelty of the proposed research;
4. Clarity and quality of the research proposal itself – presentation of the topic, definition of research objectives, presentation of research methodology and detailed program of work;
5. Feasibility of the research program;
6. Practical applicability of expected research findings;
7. Prospects for continuation of the research collaboration within other funding frameworks, such as the EU Framework Program for Research and Technological Development;
8. Extent of genuine collaboration between the Indian and Israeli research teams.
9. The level of involvement of young researchers.

VIII. **G. SANCTION ORDER/CONTRACTS, PAYMENTS REPORTS AND RESULTS**

1. The expected starting date for approved projects is **the first quarter of 2011.**

2. Contracts

3. Upon approval of a particular project, separate sanction order/contracts will be signed in India and Israel respectively, between the responsible funding agency and the institution of the Principal Investigators in each country. The contracts will include provisions regarding intellectual property rights, as agreed upon by the Indian and Israeli research teams.

4. In principle, projects will be authorized by the project sponsors for a period of two years .A request for the continuation of research funding must be submitted to the responsible agencies on the appropriate forms at least two months prior to the end of the first year of the project, together with the annual scientific report.

5. Payments

Payments will be made in keeping with the provisions of the Sanction Order/contracts mentioned above, according to the practices and regulations in effect in each country.

6. Reports

a) *Financial Reports*

Financial reports will be submitted according to the practice of each country, as specified in the research Sanction order/contract.

b) *Scientific Reports*

A joint scientific report must be submitted to the funding agencies two months prior to the end of the first year of the sanction order/research contract, together with the request for continuation of research funding (see Paragraph G[2] above).

A joint final report covering the work carried out during the entire two-year project period must be submitted within two months of the conclusion of the project. Additional interim progress reports may be required, according to the practices and regulations of each country, as specified in the sanction order/research contracts.

7.Results

Both Ministries expect that a result of the cooperation should be joint publication in international Scientific Journals.

IX. H. INFORMATION

Additional information can be obtained from the following:

INDIA:

On scientific and administrative matters:

Dr. Naveen Vasishta
Scientist
International Division
Department of Science & Technology,
Technology Bhavan,
New Mehrauli Road,
NEW DELHI-110016
Tel: 011-, 26963159 (Direct)
Extn 449 OR 26590449 (direct dialing)
Fax No.- 011-26862418

E-mail: nvasishta@nic.in

Israel:

On administrative matters:

Mr. Avi Anati

Deputy Director General for Planning & Control
Tel: 02-5411170/3
Fax: 02-5823030
E-mail: avi@most.gov.il

Mrs. Yehudith Nathan

International Relations
E-mail: Yehudith@most.gov.il

Ministry of Science and Technology P.O. Box 49100
Jerusalem 91490

On scientific and administrative matters:

Dr. Gideon Ariely
Director, Division of Computer Sciences & Advanced Technology
Tel: 02-5411134
E-mail: gideon@most.gov.il

INDIA-ISRAEL S&T COOPERATION PROGRAMME

PROPOSAL FOR DST-OCS JOINT RESEARCH PROJECT FOR FY 2010

(to be used by the Indian Scientists/ Researchers)

Project Ref No. _____
(to be given by DST)

A. PROJECT IDENTIFICATION

1. AREA CODE (Please tick the appropriate box):

1.	SOLAR ENERGY THERMAL and PHOTOVOLTAIC	(SE)	
2.	INFORMATION & COMMUNICATION TECHNOLOGY IMAGING and ROBOTICS	(ICT)	

2. TITLE OF THE PROJECT :
3. PROPOSED DURATION OF THE PROJECT : _____ Months
4. PROJECT INVESTIGATORS & COLLABORATING INSTITUTIONS :

INDIAN PRINCIPAL INVESTIGATOR (PI)

Name	
Designation	
Department	
Institution	
Postal Address	
	Contact Phone No. (o) & (M) : _____ Fax: _____
E-mail	
Date of Birth	

ISRAELI PRINCIPAL INVESTIGATOR

Name	
Designation	
Department	
Institution	
E-mail	

5. INDIAN CO-PRINCIPAL INVESTIGATOR (CO-PI)

Name	
Designation	
Department	
Institution	
Postal Address	
	Contact Phone No. (o) & (M) : _____ Fax: _____
E-mail	
Date of Birth	

6. OTHER MEMBERS OF THE INDIAN PROJECT TEAM :

S. No.	Name & Designation	Department & Institute	Academic Qualification & Specialization

7. OTHER MEMBERS OF THE ISRAELI PROJECT TEAM :

S. No.	Name & Designation	Department & Institute	Academic Qualification & Specialization

Brief Bio-data of Indian and Israeli PIs and other Indian team members highlighting the expertise in the proposed field of work alongwith list of publications highlighting those relevant to the proposed project.

8. ONGOING / COMPLETED PROJECTS WITH THE INDIAN PRINCIPAL INVESTIGATOR :

National Projects:

S. No.	Project Title	Sponsoring Agency	Budget	Status

International Projects:

S. No.	Project Title	Name of the Collaborating Scientist & Institute	Sponsoring Agency	Budget	Status

B. TECHNICAL INFORMATION

- Objectives (*in bullet form*) :
- Necessity and the significance of the proposed research exchange with Israel: (whether the proposed work could be done without the collaboration, if not please mention the complementary aspects including benefits of the collaboration)
- Past research activities in the relevent area including those with Israel and history of correspondence with the Israeles PI.
- National & International scenario in the proposed topic/theme of research (*in about 200 words*), Please provide key bibliographic references.
- Scientific & technical description of the project including methodology
- Plan of proposed research and six monthly milestones (*please describe the project's collaborative framework, division of work between Indian and Israeli sides, number of exchange visits planned with duration of each visit during each financial year from each side*)
- Expected results of the Cooperation (*for example: joint publications, patents etc.*). Are any of the expected results are likely to have commercial value? How do you propose to share it ?:
- Dully filled in Check list in the prescribed format.**
- Any other relevant information:

C. FINANCIAL AND ADMINISTRATIVE INFORMATION

TOTAL COST OF THE PROJECT :

generally limited to the extent of expenditure on approved exchange visits viz. international airfare for Indian scientists and local hospitality to the Israeli scientists as per approved norms. Some support for project manpower(JRF/SRF) consumables and contingencies may be considered as per DST's norms. Major items of expenditure should be met from internal resources of the Implementing Institution or any other sources.)

1. List of equipment and other facilities available in the participating Institutes for implementation of the project :
(In case facilities of other institutes are utilised, a consent letter from the these institute(s) may be neclosed)

- 2.. Exchange visits and estimated expenditure:

Items of Expenditure	1 st Year	2 nd Year	Total
Manpower			
<u>Visits from India to Israel</u> - Number of visits and duration for each visit - International to & fro Airfare by IATA economy excursion class including airport taxes - related local travel in India from city parent institute to nearest International Air Port - visa fee - Overseas medical insurance			
<u>Visits from Israel to India</u> - Number of visits and duration for each visit - Accommodation in Guest House - Per diem @ 1000 per day - local travel in India between the host institute and the nearest International Air Port			
Minor Equipment			
Consumables			
Contigency			
Total			

Note :i) The PI is to required to submit periodic reports and its continuation in the second year would depend upon its progress assessed by DST. At the end of each financial year .the PI is also required to submit the Utilisation Certificates and Statement of Expenditure in prescribed format.

ii) Visit of one person is to be counted as one visit.

- 3.. Designation and address of the Authorised official in Institute/ University to receive the grant
4. A letter from the Israeli Principal Investigator agreeing with the objectives, work plan including projected visits from both sides may be enclosed.

We hereby certify the statements above to be true and correct.

Signature with Date
Indian Principal Investigator

Signature with Date
Indian Co-Principal Investigator

CERTIFICATE OF HEAD OF THE INDIAN INSTITUTION

It is certified that

- 1) The institution agrees to participate in this joint research project;
- 2) In the event of the Indian Principal Investigator (PI) leaving the Institute due to retirement or otherwise, the Co-PI would become the PI and be responsible for completing the project and submitting the periodic progress report and financial statements;
- 3) The institution shall provide infrastructure & available facilities as mentioned above, for implementing the joint project;
- 4) The institution assumes to undertake financial & other management responsibilities for part of the project work to be carried out in this institution;
- 5) The breakup funding for manpower, consumables etc. is available to this project;
- 6) All necessary formalities as per our institution have been completed.

Signature and seal of the Head of the institution

CHECKLIST

1. Title of the Project :
2. Initiating Institute of project :
3. Sponsoring Agency/Ministry :
4. Total cost of the project :
Nature and Quantum of foreign collaboration sought
 - (i) Financial support: :
 - (ii) Equipment support :
 - (iii) Technical support :
 - (iv) Manpower training :
 - (v) Miscellaneous :
5. Is there any possibility, however remote of use of data, information of result of the work which may impinge on India's national security? If yes, the nature of such a use may be indicated. (In case the concerned scrutinizing Ministry do not have clear answer, the matter should be referred to the DRDO and MHA for examination).

II. ORIGIN OF THE PROJECT AND ITS SPONSORS :

6. 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?

X. 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?

XI. 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 question : 13 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?

Signature with date of the Principal Investigator

Signature with date and seal of Head of Department/ Institute

PROJECT SUMMARY

1. Project Title:
2. Total cost of the project (Indian side) (in Rs.):
3. Duration of the Project.
4. Project Investigators (PIs) and Co-Investigators:
 - 4.1 Indian PIs
 - 4.2 Foreign
5. Other Project participants:
 - 5.3 Indian
 - 5.2 Foreign
6. Implementing Agencies / Institutions:
 - 6.1 Indian
 - 6.2 Foreign
7. Sponsoring Agency / Department / Ministry
 - 7.3 Indian
 - 7.2 Foreign
8. Administrative Ministry in Government of India:
9. Has the Project been cleared by Secretary of the Administrative/
Sponsoring Ministry/Department from security/sensitivity angle?:
Yes/No
10. If answer to (9) above is 'No', then does the Administrative/
sponsoring Ministry/Department recommend the Project to
be considered by High Level Committee of Secretaries?
Yes/No

Signature of the concerned Officer
in the Administrative/Sponsoring
Ministry/Department