

**DEPARTMENT OF SCIENCE AND TECHNOLOGY
GOVERNMENT OF INDIA
AND
MINISTRY OF SCIENCE AND INNOVATION
GOVERNMENT OF SPAIN**

**INDO-SPANISH JOINT PROGRAMME OF COOPERATION
IN SCIENCE AND TECHNOLOGY**

***CALL FOR JOINT PROJECT PROPOSALS
2011***

Call open from 15 April, 2011

***Proposals to be submitted by
12.00 Midnight (local time) 31 May 2011***

**THE JOINT GUIDELINES FOR IMPLEMENTING
THE INDO–SPANISH JOINT PROGRAMME OF COOPERATION IN SCIENCE
AND TECHNOLOGY**

In accordance with Article 4 of the Programme of Cooperation (hereinafter referred to as “PoC”) signed on January 19, 2009 between the Indian Department of Science and Technology (hereinafter referred to as “DST”) and the Spanish Ministry of Science and Innovation (hereinafter referred to as “MICINN”), these Joint Guidelines provide methods of implementation of the Programme between the two Parties.

Based on the PoC, DST and MICINN have agreed to establish a new scheme for the joint funding of Indian-Spanish cooperative activities.

Signed on April 13, 2011, in two originals in English, both texts being equally valid.

For the Indian Department of
Science and Technology

For the Spanish Ministry of
Science and Innovation

Dr. Rajiv Sharma
Head
International Cooperation

D. Ignacio Atorrasagasti Tellería
Deputy Director
International Programmes

1. Introduction

The present document announces the second joint call for research projects within the framework of the Indo-Spanish Joint Programme of Cooperation in Science and Technology between the Department of Science and Technology (DST), Ministry of Science & Technology of the Government of India, and the Ministry of Science and Innovation (MICINN) of the Government of Spain, as the key institutions dedicated to implementing the programme in India and in Spain. The programme's aim is to strengthen the bilateral collaboration between scientists and researchers from the two countries by way of joint R&D projects, exchange visits and technical missions. This call for proposals provides applicants with information on the bilateral cooperation programme and its procedures.

2. Purpose of the call and Areas of Cooperation

DST and MICINN invite Indian and Spanish researchers to submit proposals for cooperative research projects in the research areas described above. All applicants must fulfill national eligibility rules to apply for research grants (see below and also national annexes for specific requirements). An important criterion of the proposed collaboration is that it should build on and reinforce already ongoing research activities in each research group and contribute significant added value to these activities.

The following broad areas have been selected as the fields of research in which joint project proposals may be submitted:

- Renewable Energy
- Nanotechnology
- Information Technology
- Health and Medical Research

3. Applicants' Eligibility

The Programme is open to scientists, engineers or faculty members regularly employed in universities and public research institutions, including hospitals and public foundations, as well as private nonprofit institutions that develop R&D activities, in India or in Spain.

Applicants must be engaged in advanced research in one of the subject areas listed above. Neither Principal Investigator (PI) should be retired or planning to retire during the proposed period of the project.

4. Cooperative Research Period

The cooperative research period shall be 3 years (i.e., 36 months) in total, counting from the start date.

5. Application

The Indian and Spanish applicants must write a common application (as per the format at Annex I) that must be submitted to both DST and MICINN in parallel. The application must be written in English. Spanish applicants are also required to submit abstracts and title of their applications in Spanish to MICINN.

Duly forwarded by the host Indian institute, two copies of the project proposal along with one electronic version in MS Word format must be submitted to DST (email- nvasishta@nic.in). One electronic version must be submitted to MICINN by the Spanish applicant and further formalized through the Online Application System (see Spanish national annex).

Each project proposal must include:

- a) Names and CVs of the two PIs, one from India and one from Spain.
- b) Project description and work plan, including how the collaboration will be carried out, with clear statements of the roles Indian and Spanish researchers will play in the project
- c) Description of the ongoing activities and specific advantages of the Spanish and Indian groups respectively
- d) Description of the expected outcome and added value of the proposed project.
- e) Description of the plan for exchange/visits of scientists, technical missions or other collaboration activities within the project.

6. Submission of Applications

To be eligible for consideration, the joint project proposal must be submitted to both DST and MICINN so as to reach each side by 12.00 midnight local time (respective to each country) on 31 May 2011.

7. Financial support

Funding provided within this call is intended to enhance project participants' capacity to collaborate. The program is designed to support additional expenses related to cooperation with a Spanish counterpart for an Indian researcher or with an Indian counterpart for a Spanish researcher, such as personal expenses, consumables, small equipment and travel and visiting costs for exchange visits. Each host institution is expected to extend basic facilities to its researchers; the proposed activities shall also be supported by the applicants' use of their own available resources.

Financial support for the exchange visits will be as follows: the sending party will provide round-trip economy-class airfare to the relevant entry city of the host country as well as medical insurance. The receiving side will arrange local hospitality (meals and lodging expenses) for the visitors. Host institutions must be informed in advance of planned visits in accordance with their specific regulations.

All budget items must conform to the national rules relevant to each applicant.

8. Evaluation of Project Proposals

A committee of experts will be selected in each country (in India by DST, and in Spain by MICINN) to manage the peer review process. A common evaluation form and scoring system will be used for all the evaluation reports. On the basis of the evaluation reports the committees of experts will make a list ranking proposals recommended for funding. DST and MICINN will then make a common decision regarding funding of selected proposals.

The following general evaluation criteria will apply to each proposed project:

1) Conformity with Programme Aims and Designated Research Fields

The proposed activity must conform to the aims of the programme and the research fields that it designates

2) Capability of PIs (one on each side)

The research leaders must have the insight or experience necessary for pursuing the activity and the ability to manage the collaboration and to achieve the project goals during this programme's period of support.

3) Appropriateness of Plan

The research plan must incorporate an appropriate system for implementing the activity as well as the exchange of visits. The project budget must be realistic.

4) Added value of the collaboration

The proposed collaboration must build on, reinforce and add significant value to already ongoing research activities in each research group.

9. Announcement of Decision

Applicants will be notified of the final decision on which projects to support before the end of 2011.

10. Contract between Researchers

If a contract for cooperative research is necessary for implementing actual research cooperation, such a contract should be concluded between the Indian institutions and the Spanish institutions. It is strongly advised, though not required, that discussions of the issue of intellectual property rights take place between the parties concerned in order to ensure good collaboration. If an agreement is concluded, it should be reported in the application, or in any case before the signature of the contract.

11. Responsibilities of PIs after Proposals are Approved

After the proposal has been approved, PIs and the institutions with which they are affiliated must comply with the following requirements when carrying out the cooperative research.

11.1. Annual Progress Report

At the end of each fiscal year, the research leaders shall promptly submit a common progress report on the status of research exchange to both DST and MICINN. The Indian and Spanish institutions with which the PIs are affiliated shall promptly submit financial reports on supported expenses to DST and MICINN respectively according to the specific national regulations.

11.2. Final Report

After completion of the period of the international research exchange, PIs must promptly submit to both DST and MICINN a common final scientific report. The report must include a general summary (maximum five A4 pages) compiled jointly by the Indian and Spanish research groups. If papers describing results of the research exchange are presented to academic journals, societies and so on, copies of such papers must be separately attached to the final report. Final financial reports will be sent independently to DST by Indian researchers and to MICINN by Spanish researchers according to the specific respective national regulations.

12. Contact Information

DST (INDIA)	MICINN (SPAIN)
<p>Dr. Naveen Vasishta, Scientist,</p> <p>International Division, Department of Science & Technology, Technology Bhavan, New Mehrauli Road, NEW DELHI-110016 Tel: 011- 26963159 E-mail: nvasishta@nic.in</p>	<p>Carolina González</p> <p>Unit for International Programmes Directorate General for International Cooperation Ministry of Science and Innovation c/ Albacete, 5, Madrid 28071 Tel: +34 916 038 762 Email: carolina.gonzalez@micinn.es</p>

**APPLICATION FORM FOR JOINT PROGRAMME OF
COOPERATION IN SCIENCE AND TECHNOLOGY**

A. PROJECT

1.1. Title of Project

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1.2. (Spanish participants only) Título del Proyecto en Español

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2. Specific research field

Field	Sub-field
It must be only one of the fields listed in point 2 of the Call	

please be sure to be specific.

3. Project Duration

/ / ~ / / (dd/mm/yyyy)(Years & Months)
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✘ Project duration should be 3 years (i.e., 36 months) all together.

4.1. Summary of Project

Keywords			
Objectives			
Approach			
Expected Outcome			

※ Attention - font: Times New Roman, size: 11 points / Do not exceed space provided.

4.2. (Spanish participants only) Resumen del proyecto en Español

Palabras claves			
Objetivos			
Descripción de la Propuesta			
Resultados Esperados			

✘ Atención - fuente: Times New Roman, tamaño: 11 / No exceder el espacio facilitado.

5. Personal Data of Principal Investigators

	INDIA	SPAIN
Name of PI		
Organization		
Department		
Title		
Address of Institution		
Office phone #		
Cell phone #		
Fax #		
e-mail		
Date of Birth		

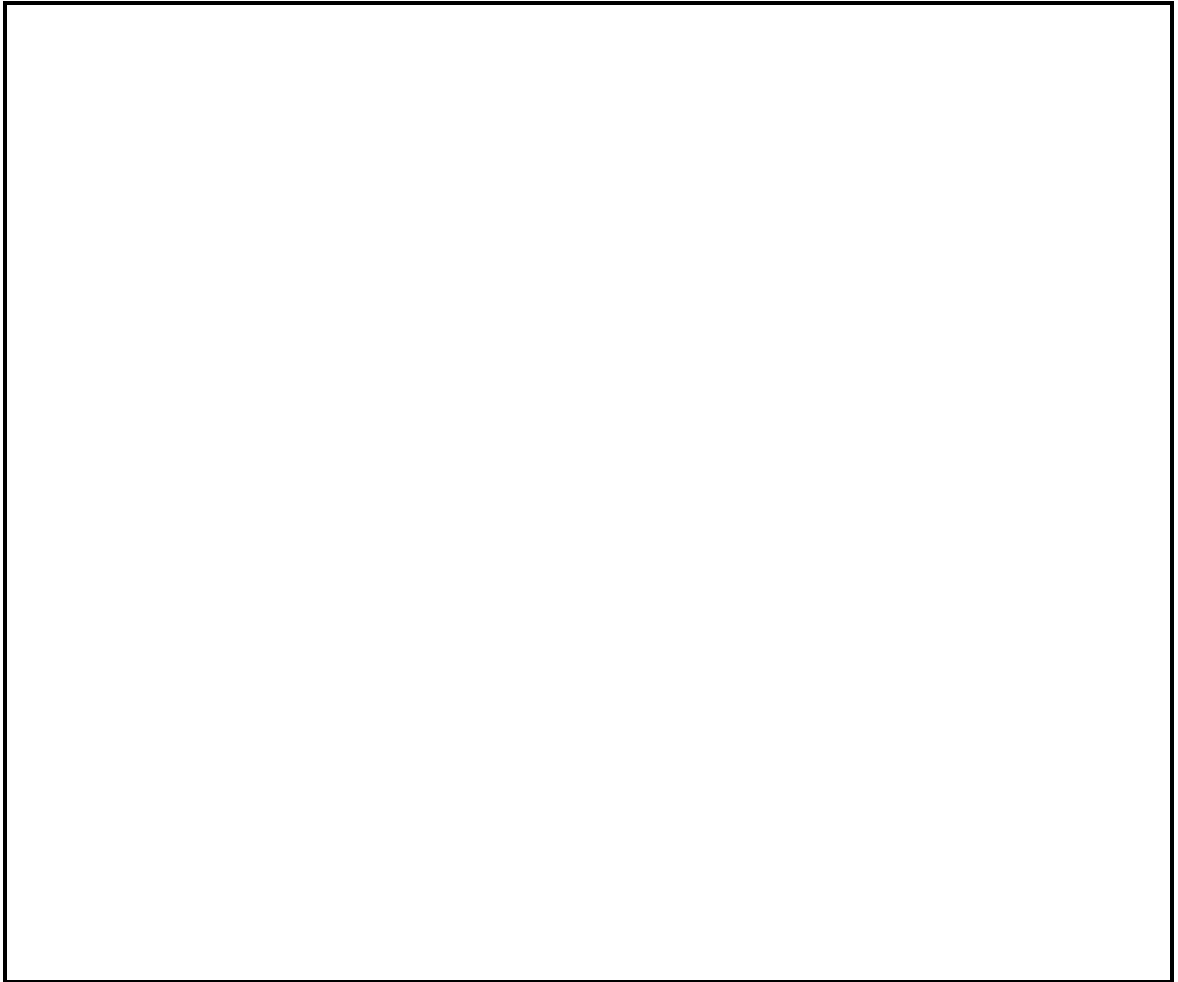
	INDIA	SPAIN
Name of Co- PI		
Organization		
Department		
Title		
Address of Institution		
Office phone #		
Cell phone #		
Fax #		
e-mail		
Date of Birth		

B. TECHNICAL INFORMATION

1. Objectives of Project (around 200 words)

2. Justification for collaboration, including background to the proposed project, each partner's expertise and specific contribution to the project, and the added value of the proposed collaboration (around 400 words)

3. Technical description of the project including methodology (around 1000 words)

A large, empty rectangular box with a black border, occupying the majority of the page below the text. It is intended for the technical description of the project.

4. Work plan (*per annum*)

Timeline	Responsibilities of Indian team	Responsibilities of Spanish team
1 st Year (yyyy)		
2 nd Year (yyyy)		
3 rd Year (yyyy)		

5. Facilities related to project activity available at the institutions where the project will be carried out:

At the Collaborating Indian Institutions	At the Collaborating Spanish Institutions

6. Information of visiting persons for technical mission (*per annum*).

Estimation of the expected plan of visits; any further modification, according to the needs of joint project has to be communicated and approved by the participants institutions.

A. India to Spain

	Name	Organization	Duration	Purpose
1 st Year				
2 nd Year				
3 rd Year				

B. Spain to India

	Name	Organization	Duration	Purpose
1 st Year				
2 nd Year				
3 rd Year				

※ Attention: Please add lines if necessary.

7. Expected results of Cooperation (e.g. joint publications, patents etc.)

Are any of the expected results likely to have commercial value? (around 100 words)

8. Personal and Professional Data (CV) of Indian and Spanish PIs must be attached.

(CV must describe the expertise of the PIs in the proposed field of work by citing relevant scientific publications or patent applications during the last 5 years. Do not exceed two pages A4 size for each PI (Font: Times New Roman, size: 11 points).

9. Complementary resources.

List of ongoing National & International Projects where the PI leads or plays a significant role (Cite the national or international funding resources for such projects, including funding agencies, funding period and grant amount).

C. FINANCIAL INFORMATION

1. Budget plan

INDIA				
Items of expenditure	I Year(Rs.)	II Year(Rs.)	III Year(Rs.)	Total(Rs.)
Manpower(*)				
Minor Equipment(**)				
Consumables(***)				
A. Visits by Indian scientists to Spain (Pl. indicate n ^o of visits & duration) International air-fare including airport taxes and airport transfers in India				
Medical Insurance (silver class)				
Visa Fee				
B. Visits by Spanish scientists to India (Pl. indicate n ^o of visits & duration) - Accommodation in guest House as per actual Per diem for food and out of pocket expenses @1000 per day				
C. Total				
Over-head 10%				
Grand total (Rs.)				

- Designation of the man power is to be indicated (JRF/RA etc.).(*)
- List of equipments are to be indicated.(**)
- List of the consumables are to be indicated.(***)

SPAIN				
Items of expenditure	I Year (€)	II Year (€)	III Year (€)	Total (€)
Manpower(*)				
Minor Equipment(**)				
Consumables(***)				
Visits by Indian scientists to Spain (Pl. indicate n° of visits & duration) International air-fare including airport taxes and airport transfers in India				
Visits by Spanish scientists to India (Pl. indicate n° of visits & duration) Accommodation in guest House as per actual Per diem for food and out of pocket expenses @1000 per day				
Workshops and other meetings organization				
Other costs (medical insurance, visa fee, etc.)				
Grand total (€)				

- Designation of the man power is to be indicated (pre-doc, post-doc).(*)
- List of equipments are to be indicated.(**)
- List of the consumables are to be indicated.(***)

A. Signatures of the Principal Investigators & Institutions

▶ Spanish PI

Name _____ Signature _____ Date _____

▶ Indian PI

Name _____ Signature _____ Date _____

B. Declaration from the Heads of the Collaborating Institutions

It is certified that

- i) the Institutions agree to participate in this Joint Research Project;
- ii) the Institutions shall provide necessary facilities for implementing the Joint Research Project;
- iii) the Institutions assume financial & other management responsibilities for the duration of the project to be carried out at their institution; and
- iv) the back-up funding for manpower, consumable etc. is available for this Joint Research Project.

Signature of the Heads of the Institutions (through scanned exchanges)

▶ Head of the Spanish Institution

Name _____ Signature _____ Date _____

▶ Head of the Indian Institution

Name _____ Signature _____ Date _____

**INDO-SPANISH RESEARCH COOPERATION IN SCIENCE AND
TECHNOLOGY**

PROPOSAL FOR THE EXCHANGE VISIT¹

¹In addition to this proposed form, visitors must complete any additional form required by the corresponding host institutions

1. Project title*
2. Project Code *
3. Last Name/ Surname
First and Middle Name
Title : (Prof/Dr/Mr/Ms/Mrs)
4. Sex
5. Date and Place of Birth
6. Father/ Mother's Name (not required for Spanish side)
7. Passport Number
Date & Place of Issue
8. Designation/ Position,
Address of the Parent Organization
(with Phone/ Fax/E-mail)
9. Area of Specialisation
Important publications during last 5 years
10. Duration of the visit
11. Date of Arrival at the host Country
Date of Departure
12. Expected place of arrival
13. Host Institution
14. Brief write-up on the purpose of the visit and expected outcome (please attach separate sheet if necessary)

Signature of the Visiting Scientist

Date : _____

FINANCIALS

1. The total budget for a project over a full 3-year period should not exceed 100,000 Euros on the Spanish side and its equivalent in Rupees on the Indian side (approximately Rs.7 million). The total Project budget cost should in no condition cross the maximum limit indicated. The final proposed budget will be decided based on the evaluation reports and the proposed work plan of activities.

2. Local hospitality charges:

The Indian local hospitality costs in respect of visiting Spanish scientists may be projected as per the following

(i) Free furnished accommodation in the Guest House or a 3 star hotel accommodation. (Budget may be calculated by the Indian PI @ Rs. 2,000/- per day.)

(ii) Per diem shall be payable @ Rs. 1,000/- per day for short term visits of up to 2 weeks and @ Rs. 25,000/- per month for the longer duration visits;

The Spanish local hospitality costs in respect of visiting Indian scientists may be projected as per the following

(i) For short term visits of up to 2 weeks: free accommodation in Guest House or hotel (equivalent to up to 65,97€ per night), plus meals or 37,40 € per day, or a total of 103€ per day for accommodation and living expenses.

(ii) For longer duration visits: 1800 € per month for accommodation and living expenses.

These estimated rates could be slightly modified according to host institution regulations.

3. Visits may be projected as 2 short term visits per year and 1 long term visit per year for each of the projects from each side. Both sides should project similar number of visits for the Project from each side.