



**DEPARTMENT OF SCIENCE AND TECHNOLOGY (DST)
(INTERNATIONAL DIVISION)**

**INDO-BULGARIAN BILATERAL SCIENTIFIC COOPERATION
CALL FOR PROPOSALS – 2011**

General Information and Guidelines for Proposals

With a view to intensify interaction and the scientific cooperation between Indian and Bulgarian Scientists/Institutions, **Department of Science and Technology (DST) for the Government of the Republic of India** and the **Ministry of Education, Youth and Science (MEYS) for the Government of the Republic of Bulgaria**, extend support for joint research projects involving exchange of visits, workshops/conferences, under the Indo-Bulgarian Bilateral Scientific Cooperation programme with special emphasis on further academic training and specialisation of scientists/scholars.

ELIGIBILITY / PROJECT PARTICIPANTS AND SUBJECT AREAS:

Faculty, Scientists and Academicians belonging to Universities, Deemed Universities and Research Institutes having permanent positions can apply as Principal Investigator (PI). In order to qualify for such funding, investigators are required to have a concrete and sound research proposal on any of the following areas:

The priority areas for this Call as were mutually agreed are given below:

- Information Technology
- Metal Sciences and New Materials
- Nano-materials
- High Energy Physics
- Satellite Technology
- Alternate Renewable Energy Sources, including Solar Energy
- Geophysical Instrumentation and Earthquake Engineering including its forecasting
- Food Technology
- Biotechnology (including gene-biotechnology)
- Medicine (especially, Traditional Medicines based on herbs)
- Laser Science and Technology
- Astronomy
- Ocean Science and Technology

The following types of proposals **shall NOT be** considered:

- Already existing collaborative projects where travel and living expenses are financed by some other source;
- Purely individual visits/training programme;

FUNDING:

Grants offered within this call is strictly limited to participants mobility (travel costs and daily subsistence allowances) within the framework of well-defined and approved Indo-Bulgarian research projects normally of two to three year duration. The sending side shall cover the expenses on international travel (including overseas medical insurance) up to the capital city/city of arrival in the host side both ways. The receiving side shall arrange the in-country travel of the visiting scientists from the capital city/city of arrival to the place of the institute to be visited by appropriate means and living expenses.

The local hospitality terms for visiting scientists in each others' host country are as follows:

For Indian scientists: paid accommodation and a daily allowance an allowance up to Leva 900 per month or Leva 36 per day (if the stay is for less than 21 days).

For Bulgarian scientists: paid accommodation and a daily allowance of Rs.1,000/- per day in case of short term visit (up to 21 days) and Rs. 25,000/- per month in case of long term visit (more than 21 days) towards food and out of pocket allowances.

The mutual visits of the scientists must be balanced in number from each side spread over entire duration of a project.

PROJECT DURATION:

Support to the project will be granted for a maximum duration of 3 years. The sanctioned visits (i.e. maximum 6 from each side) will have to be completed within the duration of the 3 years. Request for extension of the project shall normally **NOT** be considered.

APPLICATION PROCEDURE:

Joint research projects in the **prescribed format** (Annexure-I), duly forwarded by the Head of the Institutions are to be submitted simultaneously, by the Indian Project Leader to the Department of Science and Technology, New Delhi and, by the Bulgarian Project Leader to the Ministry of Education and Science, Bulgaria. **Applications received by both the agencies with all necessary documents shall only be considered.**

Date of opening of the Joint Call : **January 15, 2011**

Last date for receipt of Proposals : **March 15, 2011.**

Applications received after last date will not be entertained.

An internal evaluation procedure will be followed in each country after the last date of receipt of the proposals i.e March 15, 2011. The final selection of the proposals will be made by the Joint Committee, which will take into consideration the evaluation from both sides. Projects as recommended by the Joint Committee will only be co-financed by the Indian and Bulgarian Authorities to be implemented under the Indo-Bulgarian Programme of cooperation for the period 2011 - 2013.

5 copies of the identical project document duly forwarded may be submitted to the respective sides as indicated below:

- i) Bulgarian project investigators would send **5 copies** to Ms. Nadia Zhivkova, Junior Expert, Scientific Research Department, Ministry of Education, Youth and Science, 2A, Kniaz Dondukov Blvd. 1000 Sofia. Tel.: +3592 9217 633 FAX: +3592 9217 683 email: n.zhivkova@minedu.government.bg; and
- ii) **Indian project investigators** are required to send the project document (**5 copies**) to: **Dr. Jagdish Chander, Scientist - F, International Division (Room No 15, Admn. Block) Department of Science and Technology, Technology Bhavan, New Mehrauli Road, New Delhi - 110 016**, along with a softcopy (single file in ms-word or pdf format) as email attachment at Email: ichander@nic.in

**INDO–BULGARIAN INTER-GOVERNMENTAL
PROGRAMME OF COOPERATION IN SCIENCE AND TECHNOLOGY
(FORMAT FOR JOINT PROJECT PROPOSAL)**

A. PROJECT IDENTIFICATION

1. Title of the Project:
2. Duration of the Project:
Expected Date of Commencement:
Expected Date of Completion:
3. Field of S&T Covered by the Proposal:
(4 Keywords qualifying the scope of proposal)
5. Project Investigators (PIs) and Collaborating Institutions:

	INDIAN	BULGARIAN
Name of PI: Designation: Institution's Address Tel: Fax: E-mail: Date of Birth:		

Other participating institutions and coordinators:
(Same information as above to be provided)

Bio-data of project coordinators and other participating scientists (maximum 2 pages each may be appended: *(the description should highlight the expertise in the proposed field of work supported by citing relevant publications only)*).

B. TECHNICAL INFORMATION

1. Objectives of the Project *(in about 200 words; point-wise)*:
2. Justification for collaboration *(in 100-200 words)*:
3. National and international scenario in the proposed area of research *(in about 400 words)*:
Please provide key bibliographic references:
4. Scientific and technical description of the project including methodology *(in about 400 words)*:

Time Schedule	Indian Responsibilities	Bulgarian Responsibilities
1 st Year		
2 nd Year		
3 rd Year		

5. Proposed work sharing and exchange visits for the entire duration of the project:
(Tentative number of exchange visits, their duration and purpose of the visit, from each side may be given as a table)

Tentative Date	Duration	Purpose
<u>India to Bulgaria</u> 1 st Year 2 nd Year 3 rd Year		
<u>Bulgaria to India</u> 1 st Year 2 nd Year 3 rd Year		

6. 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 ? (*in about 100 words*) :
7. Research projects with the project coordinators:
 Ongoing: (title, duration, quantum and source of funding)
 Proposals submitted: (title, duration, quantum and source of funding)

C . ADMINISTRATIVE & FINANCIAL INFORMATION

1. Project Cost

Year	Exchange Visits		Contingency	Total
	Indian Scientist(s) to Bulgaria	Bulgarian Scientist(s) to India		
1st Year				
2nd Year				
3rd Year				
Total				

Signatures of the Project Investigator(s)

Indian

Bulgarian

(Name and Designation)

(Name and Designation)

Institution's Endorsement:

Certified that the infrastructural facilities related to the project activity is available in this Institution (including equipment, back-up funding for manpower, consumable etc. is available to this project) and other facilities and all necessary administrative support will be extended for the project.

Indian Institution:

Bulgarian Institution:

Name:

Name:

Position:

Position:

Signature:

Signature:

Date:

Date:

**INDO–BULGARIAN INTER-GOVERNMENTAL
PROGRAMME OF COOPERATION IN SCIENCE AND TECHHNOLOGY**
Application Form for the Exchange Visit(s)*

1. Title of the Project (with project code/number):
2. Name and position with full official address of the visiting scientist (Indicating date and place of birth, passport No. with date and place of issue, Phone, Fax, Email Sex):
3. VISIT DETAILS:
 - 3.1 (i) Period of visit : From: _____ To: _____
 - (ii) Duration (in days):
 - (iii) Place(s) to be visited:
 - 3.2 Whether any visit(s) have taken place previously under this project:
(if yes, please fill the following table in chronological order):

Period of visit		Name(s) of scientist(s)	Country
<u>From</u>	<u>To</u>		

- 3.3 Name, position and address of the host scientist (attach a copy of the invitation letter)
4. Brief status of the work achieved so far (in general terms):
5. Brief Work Plan and purpose of the proposed visit:

Certified that the visiting scientist is presently working on the above mentioned project and is affiliated to the Institute/department/laboratory/University as.....from to

Date:

Name & Signature of the Principal Investigator

Head of the Department/Institute with Seal

*to be submitted (at least two months in advance) by the PIs to their respective Government Organisations, every time the PIs want to visit, for seeking approval for exchange visits under the approved project .

INSTRUCTIONS FOR PROPOSAL PREPARATION

The Project description should contain clear statement of work to be done and should include sub-sections on introduction, objective, plan of work, experimental methods, and specific activities to be undertaken by the Indian and Bulgarian collaborator(s), significance of expected outcome and its relation to present state of knowledge in the field. The project description should clearly bring out the need for collaboration and expected tangible gains for the two sides. The total project document (excluding CVs) should not exceed 10 pages.

- (i) The **CV of all Indian and Bulgarian participants (each not more than 2 pages)** of the project must make part of the project proposal (information in the form of separate annexure etc. will not be considered). The following information may be provided in the CVs:
- List of publications most closely related to the project proposal
 - Publications, including those accepted for publications
 - Patents, copyrights or software systems developed may be listed.
- (ii) Along with 5 copies of the project proposal, one copy each of the following documents is also required:
- In case of proposal involving Recombinant DNA work, a certificate from the Institutional Bio-safety committee.
 - In case of proposal involving research with human subjects, a certificate from the Institutional Ethical Committee.
 - In case of any biological material transfer envisaged clearances from appropriate agencies of government.
 - In case of proposal involving IPR related issues, a copy of the agreement signed between the two PI's for sharing the IPR.
 - In case of proposals from CSIR/ICMR/ICAR labs or proposals relating to Atomic/Nuclear research or other related sensitive areas, security sensitivity clearance from respective Secretary/DG of the concerned Administrative Department.
 - One copy of all papers/publications cited in the CV-Form

Advance copies of the proposals shall NOT be accepted.

THE PROPOSAL NOT CONFORMING TO THE GUIDELINES OR INCOMPLETE IN ANY RESPECT IS LIABLE TO BE REJECTED IN INITIAL SCREENING ITSELF.