

**DEPARTMENT OF SCIENCE & TECHNOLOGY,
GOVERNMENT OF INDIA
&
MINISTRY OF SCIENCE & TECHNOLOGY (MOST),
PEOPLE'S REPUBLIC OF CHINA**

**INDO-CHINA PROGRAMME OF COOPERATION
IN SCIENCE & TECHNOLOGY**

CALL FOR JOINT PROJECT PROPOSALS

Call Opening Date: 16th March, 2009

Call Closing Date : 30th April, 2009

The Indo-China Cooperation in Science and Technology facilitates bilateral cooperation between scientists/researchers of the two countries by way of joint R&D projects, Joint Workshops and Exploratory Visits. The Department of Science and Technology (DST), Ministry of Science & Technology (MOST), People's Republic of China are the nodal agencies to implement the programme in India and the China on the respective sides.

Areas for R&D Projects :

Financial support for projects in the following broad subject areas is available under the programme:

- Earthquake Engineering
- Weather Forecasting
- Climate Change
- Nano-technology
- Biotechnology with focus on bio-nano

Eligibility:

Programme is open to scientists/ engineers engaged in advanced research in the above referred areas in India and China and working in regular capacity in Government recognized Universities/ Deemed Universities, Academic Institutes and National Research Laboratories/ Institutes. The Indian PI should not be retiring during the proposed duration of the project. Joint project proposal may be submitted parallelly by the Indian

researchers to DST and by the Chinese partners to MOST in the prescribed format. The project proposals must be submitted to both the sides by 30th April, 2009. Unilaterally submitted projects shall not be considered.

PIs should submit dually forwarded applications to their respective countries at the following addresses :

<u>INDIA</u>	<u>CHINA</u>
<p>Dr. A.K. Sood Adviser International Cooperation Department of Science & Technology New Mehrauli Road New Delhi – 110 0016</p> <p>Tel / Fax: 011-2696 3159 Email: drak.sood@nic.in</p>	<p>Mr. Wen Jun Director Division of Asia & Africa Department of International Cooperation Ministry of International Cooperation 15B Fuxing Road Beijing – 100 862</p> <p>Tel/Fax: 10-5888 1345 Email: wenj@most.cn</p>

INDIA-CHINA S&T COOPERATION **PROPOSAL DETAILS**

This document contains four (4) separate sections.
Please complete ALL sections

SECTION	DESCRIPTION
I.	PROBLEM FORMULATION
II.	POTENTIAL IMPACT / APPLICATIONS / EXPLOITATION
III.	PROJECT IMPLEMENTATION SCHEDULE
IV.	CASE FOR SUPPORT

Proposal Title:	
Indian Principal Investigator (PI) & Organisation:	
Indian Co-Principal Investigators (Co-PI) & Organisations:	
Chinese Principal Investigator (PI) & Organisation:	
Chinese Co-Principal Investigators (Co-PI) & Organisations:	

Signature of Indian and Chinese co-coordinators

Signed:
Indian Agency:

Signed:
Chinese Agency:

Endorsement of proposal by Head of Indian and Chinese implementing agencies

Signed:
Indian Agency:

Signed:
Chinese Agency:

I. PROBLEM FORMULATION

Instructions:

1. List main objectives of the joint research project in order of priority, and describe them clearly and succinctly.
 2. Provide specific details on **the contribution and responsibilities of the Indian and Chinese investigators** with respect to the main objectives of the joint research project.
 3. Describe the scope and constraints of the proposed activity.
 4. Highlight the deliverables upon project completion, **stating specifically what are the contributions and responsibilities from the Indian and Chinese investigators.**
 5. Please do **NOT** exceed **two pages** for this section.
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1. Main objectives, stating specific contributions and responsibilities from Indian and Chinese investigators

2. Scope & constraints

3. Deliverables, stating specific contributions and responsibilities from Indian and Chinese investigators

II. POTENTIAL IMPACT / APPLICATIONS / EXPLOITATION

Instructions:

1. Please state the likely impact and applications of the work (social, technological, economic, environmental).
 2. Highlight any potential for exploitation, and the necessary follow-up arrangements.
 3. Please do **NOT** exceed **one page** for this section.
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1. Impact

2. Applications

3. Exploitation Potential / Commercialisation

IV. CASE FOR SUPPORT

Instructions:

1. The project description in this application form should be identical to what is submitted by the Indian Principal Investigator to India funding agency (DST) and by Chinese Principal Investigator to Chinese funding agency (MOST).
 2. Where applicable, the specific contributions and responsibilities of each Indian investigator and Chinese Principal Investigator should be clearly stated.
 3. The application form should cover all the **ELEVEN points** outlined here and in the document **"Preparing a Case for Support"**.
 4. Please do not exceed **FOURTEEN pages** for this section.
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(1) DETAILED METHODOLOGY (NO MORE THAN 6 PAGES)

PI should describe in detail:

- the method and technical approach chosen,
- the alternatives that have been or can be considered,
- why the chosen methods were preferred, and
- whether the investigation is to occur in stages and if the stages would be sequential or parallel.

(2) TECHNICAL CHALLENGES

PI should describe the technical challenges of the proposed approach and explain:

- how/why such challenges have prevented others from making similar attempts,
- known constraints that may affect the project, and
- fall-back/contingency plan where technical challenges cannot be overcome.

(3) NOVELTY OF THE APPROACH

PI should highlight succinctly the novelty of the proposed approach.

(4) INFORMATION ON COLLABORATION

PI should describe in detail:

- the lead Indian and Chinese institutions involved in the project,
- details on the interaction among investigators of both countries,
- specific contribution and responsibilities of the Indian and Chinese investigators,
- how the proposed research will leverage on capabilities in Indian and Chinese collaborating partners.

(5) COMPETITORS

PI should mention who else in the world are working in similar areas and highlight the key/main competitors.

(6) COMPARATIVE ADVANTAGES OF THE APPROACH

PI should highlight why the proposed approach is better than those of the key competitors mentioned in point 5.

(7) EXPERTISE, EFFORT LEVEL, ROLES & CONTRIBUTION OF INDIAN AND CHINESE INVESTIGATORS

Indian and Chinese PI, Co-PI and Collaborators should describe their

- research background,
- technical competencies,
- role and contribution to specific deliverables,
- involvement (eg. in terms of man-months per year), and
- achievements that are relevant and necessary in ensuring success for the proposed research.

(8) ADMINISTRATION OF FUNDS

Indian PI/Chinese PI should indicate how the funds would be distributed to the Indian Co-PIs /Chinese Co-PIs (note that funds cannot be allotted to collaborators and overseas investigators). Separate tables be indicated for Indian and Chinese PIs requirements.

Items	Year 1	Year 2	Year 3	TOTAL BUDGET(Rs.)
TOTAL				

Total in Rs:

Total (Approximate) in US \$:

(9) MANPOWER & EQUIPMENT JUSTIFICATION

Indian PI and Chinese PI should elaborate in detail the reasons for the requested manpower and equipment. For manpower, the PI must detail the specific contribution of each staff to the deliverables as well as highlight the technical challenges faced by each staff. For each piece of equipment, the PI must justify its purchase and show how it contributes to the deliverables of the project.

(10) PREVIOUS PRELIMINARY WORK

Indian and Chinese investigators should describe previous works that are related to this proposal and any preliminary results that would help support this proposal. They should also describe past collaborative efforts between themselves.

(11) MOBILITY COSTS

Indian and Chinese investigators should indicate the travel costs and local hospitality costs in following format and reflect the total into costs for each year indicated at serial (8) above. Indian PIs would be eligible for A and Chinese PIs would be eligible for B table costs :

A: To be filled by Indian scientists (in Rs) :

Items of Expenditure	I Year	II Year	III year	Total
<i>No. of Visits with duration</i>	... visits x ... weeks	... visits x ... weeks	... visits x ... weeks	
1 <u>Visits by Indian Scientists to China</u> International air fare by IATA excursion class including Airport taxes, and airport transfers				
Medical Insurance				
visa fee				
2 <u>Visits by Chinese Scientists to India</u> - Accommodation in Guest House as per actual - Per diem for food and out of pocket expenses				
Total				

B: To be filled by Chinese scientists :

Items of Expenditure	I Year	II Year	III year	Total
<i>No. of Visits with duration</i>	... visits x ... weeks	... visits x ... weeks	... visits x ... weeks	
1 <u>Visits by Chinese Scientists to India</u> International air fare by IATA excursion class including Airport taxes, and airport transfers				
Medical Insurance				
visa fee				
2 <u>Visits by Indian Scientists to China</u> - Accommodation in Guest House as per actual - Per diem for food and out of pocket expenses				
Total				