**India-Japan Joint Research Laboratory Programme**

**2015 SICORP Collaborative Hub for International Research Program**

**between Japan and India**

**- Application Forms –**

**Form-1**

**Title of Collaborative Research Project**

|  |  |
| --- | --- |
| **Title of Collaborative Research Project**  **（日本語課題名）** |  |
| **(must be added　in application to JST)** |
| **Five key words**  **describing the proposed research topic:** |  |

**Japan-based Principal Investigator (PI)**

A copy of the Collaborative Research Agreement entered into among the collaborating research organizations in Japan-India must be attached to the application to JST and DST.

The PI is also required to describe the name and position of a responsible person, who must be a signatory to a Memorandum of Cooperation (MoU) between the collaborating organizations in both countries, since it is essential for the PI to secure official authorization and complete support of their affiliated organization.

**Name (Family) 　　　（First）**

**(日本語表記)**

**Organization**

**(日本語表記)**

**Division/Department　 　Title**

**(日本語表記)**

**Address**

**(日本語表記)**

**Tel. /Fax/E-ｍail**

**＊Director or similar-level responsible person administrating the affiliated organization**

**Name (Family) 　　　（First）**

**(日本語表記)**

**Charge Title**

**(日本語表記)**

**Tel./Fax/E.mail**

**Information about Indian Institutes establishing a “Joint-Laboratory” in the 1st phase**

**India-based Principal Investigator (PI)**

A copy of the Collaborative Research Agreement entered into among the collaborating research organizations in Japan-India must be attached to the application to JST and DST.

The PI is also required to describe the name and position of a responsible person, who must be a signatory to a Memorandum of Cooperation (MoU) between the collaborating organizations in both countries, since it is essential for the PI to secure official authorization and complete support of their affiliated organization.

**Name (Family) 　　　（First）**

**Organization**

**Division/Department　 　Title**

**Address**

**Tel. /Mobile/Fax/E-ｍail**

**＊Director or similar-level responsible person administrating the affiliated organization**

**Name (Family) 　　　（First）**

**Charge Title**

**Tel./Mobile/Fax/E.mail**

**Information about Indian Institutes establishing “Joint-Laboratory” in the 1st phase**

**Form-2**

**Affiliated organization in which a Joint-Laboratory will be installed in the 1st phase**

**Country**

**Responsible person Name (Family) 　　　（First）**

**Organization**

**Division/Department　 　Title**

**Address**

**Tel./Mobile/Fax/E.mail**

**Affiliated organization in which a Joint-Laboratory will be installed in the 1st phase**

**Country**

**Responsible person Name (Family) 　　　（First）**

**Organization**

**Division/Department　 　Title**

**Address**

**Tel./Mobile/Fax/E.mail**

**Affiliated organization in which a Joint-Laboratory will be installed in the 1st phase**

**Country**

**Responsible person Name (Family) 　　　（First）**

**Organization**

**Division/Department　 　Title**

**Address**

**Tel./Mobile/Fax/E.mail**

**Form-3**

**Form-3**

**Principal Investigator (PI) on the Japanese Research Team**

|  |  |
| --- | --- |
| **Name** | **(Family) 　　　（First）** |
| **Organization** |  |
| **Record of collaboration with researchers of the counterpart country,**  **Main Scientific Publications, Patent Applications in the last 5 years, etc.** | |
|  | |

**Principal Investigator (PI) on the Indian Research Team**

|  |  |
| --- | --- |
| **Name** | **(Family) 　　　（First）** |
| **Organization** |  |
| **Record of collaboration with researchers of the counterpart country,**  **Main Scientific Publications, Patent Applications in the last 5 years, etc.** | |
|  | |
|

**Form-4**

**Participants in the Japanese Research Team**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Organization, Division | Title | Degree | Specialty |
| （Leader） |  |  |  |  |
|  |  |  |  |  |
| （Researchers） |  |  |  |  |
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**Participants in the Indian Research Team**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Organization, Division | Title | Degree | Specialty |
| （Leader） |  |  |  |  |
|  |  |  |  |  |
| （Researchers） |  |  |  |  |
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**Form-5**

**Abstract**

|  |
| --- |
| Instructions  An abstract of 20 lines should be included to describe the work plan of both the Japan-based and India-based research teams and how their work is to be integrated in the Joint-Laboratory in the 1st phase and Joint-Hub in the 2nd phase.  The abstract should present:  1. Objectives and targeted outcomes after completion of a maximum of 5 years’and 10years’ collaborative research  2. Methodology  3. Formation of collaboration and management of research-networking  4. Potential for significant scientific contribution by the proposed research  5. Potential for significant social and economic impact to both countries by the proposed research |
| **Abstract:** |
| **Illustration demonstrating the Joint-Research Structure / concept:**  -maximum 1 page |
| **List of interested companies** Please list potential companies which may be interested in the research topics targeted by this proposal and with which the Japan- and/or India-based teams intend to collaborate in the future.   1. Japanese team: 2. Indian team: |

**Form-6**

**Detailed descriptions of the Collaborative Research Project in 5 years (the 1st phase) and 10 years (the expected　whole period)**

**–** **maximum 6 pages**

(Please refer to the evaluation criteria in the guidelines. References should be listed at the end of this section.)

(1) Detailed description of the research topic

(2) Discussion of the scientific and technological background of each element of the project

(3) Explanation of the conformity of the project to the priority research fields and type of research, as detailed in the call for proposals

(4) Expected scientific, social and economic contribution of the project (focusing on synergy and mutual benefits of the project, including expected added value from the project)

(5) Specific goals, methodology and work plan of the project

(6) Statement describing the state of the art in the research field, the approximate number of research groups working in the field, and the special strengths of the Japan-India research team

(7) Measures to foster researchers including circulation and exchange

**Form-7**

**Time Schedule and Work Plan with Milestones/deliverables**(Itemize the specific research activities to be done by each team in each year. The targets to be achieved and the specific roles of each team should be included. Descriptions for each team should not exceed 1 page, respectively.)

**Japanese side (Start date of the collaborative project)**

**1st Year**

**2nd Year**

**3rd Year**

**4th Year**

**5th Year**

**Indian side (Start date of the collaborative project)**

**1st Year**

**2nd Year**

**3rd Year**

**4th Year**

**5th Year**

**Time Schedule and Research Networking Plan** – **maximum 1 page**

(Including a clear description of plans for joint workshops, researcher exchanges etc. in each year, and the purposes of and expected outcomes of these activities.)

**1st Year**

**2nd Year**

**3rd Year**

**4th Year**

**5th Year**

**Form-8**

**Budget Description (for Japanese Team) in the 1st phase**

**(A) Budget Summary in Japanese Yen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Fiscal year 2016 | Fiscal year 2017 | Fiscal year 2018 | Fiscal year 2019 | Fiscal year 2020 | Fiscal year 2021 | **TOTAL** |
| Direct Expenses |  |  |  |  |  |  |  |
| Facilities and equipment |  |  |  |  |  |  |  |
| Consumables |  |  |  |  |  |  |  |
| Travel |  |  |  |  |  |  |  |
| Salaries for researchers, PhD  students, post-docs, etc. |  |  |  |  |  |  |  |
| Other |  |  |  |  |  |  |  |
| Total amount in Direct Expenses |  |  |  |  |  |  |  |
| Overhead Expenses |  |  |  |  |  |  |  |
| Overhead Expenses |  |  |  |  |  |  |  |
| **TOTAL Budget Requested**  **(including Direct and Overhead Expenses)** |  |  |  |  |  |  |  |

Instructions**:**

Travel expenses must be indicated in the table. Details should be given regarding the calculation of travel expenses (number of trips, airfares, days of car rental, etc.) in the Budget Justification (see below). When the services of sub-contractors or consultants are budgeted for, please specify the nature of the work to be performed and detail the cost calculation in the Budget Justification.

**(B) Budget Justification**

Please explain in detail and justify, in relation to the work plan, the major budget paragraphs and special items, such as travel and consultancy and sub-contractor services.

**(C) Other Sources of Support**

Has this research proposal been submitted to other funding sources? Yes\_ No

Funding source: Sum requested:

Has the request been approved? Yes No

Funding source: Sum requested:

Has the request been approved? Yes No

＊If this project has received support from other sources in the past or is currently receiving support, please name the funding sources, the period of support and the amount of support. Rights or obligations in relation to the funding source should be indicated, if in effect. Should it be considered necessary, JST must request presentation of the relevant contracts and information regarding previous stages of the research.

＊If patent applications have been presented or patents have been registered in relation to the research project, please provide the following details: country in which the patent was registered/ requested; patent/request number; names of the inventors; etc.

**Form-9**

**Budget Description (For Indian Team) in the 1st phase**

**(A) Budget Summary in India Rupee**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Fiscal year 2016 | Fiscal year 2017 | Fiscal year 2018 | Fiscal year 2019 | Fiscal year 2020 | Fiscal year 2021 | **TOTAL** |
| Direct Expenses |  |  |  |  |  |  |  |
| Facilities and equipment |  |  |  |  |  |  |  |
| Consumables |  |  |  |  |  |  |  |
| Travel |  |  |  |  |  |  |  |
| Salaries for researchers, PhD  students, post-docs, etc. |  |  |  |  |  |  |  |
| Other |  |  |  |  |  |  |  |
| Total amount in Direct Expenses |  |  |  |  |  |  |  |
| Overhead Expenses |  |  |  |  |  |  |  |
| Overhead Expenses |  |  |  |  |  |  |  |
| **TOTAL Budget Requested**  **(including Direct and Overhead Expenses)** |  |  |  |  |  |  |  |

Instructions**:**

Travel expenses must be indicated in the table. Details should be given regarding the calculation of travel expenses (number of trips, airfares, days of car rental, etc.) in the Budget Justification (see below). When the services of sub-contractors or consultants are budgeted for, please specify the nature of the work to be performed and detail the cost calculation in the Budget Justification.

**(B) Budget Justification**

Please explain in detail and justify, in relation to the work plan, the major budget paragraphs and special items, such as travel and consultancy and sub-contractor services.

**(C) Other Sources of Support**

Has this research proposal been submitted to other funding sources? Yes\_ No

Funding source: Sum requested:

Has the request been approved? Yes No

Funding source: Sum requested:

Has the request been approved? Yes No

＊If this project has received support from other sources in the past or is currently receiving support, please name the funding sources, the period of support and the amount of support. Rights or obligations in relation to the funding source should be indicated, if in effect. Should it be considered necessary, DST may request presentation of the relevant contracts and information regarding previous stages of the research.

＊If patent applications have been presented or patents have been registered in relation to the research project, please provide the following details: country in which the patent was registered/ requested; patent/request number; names of the inventors; etc.

**Form-10**

**Key Professional Personnel**

Indicate “staff type” in the following order: principal investigator (PI), assistant investigators, and postdoctoral research fellows.

**(A) Japan-based Team**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Staff**  **Type** | **Name** | **Institution/**  **Department** | **Position** | **Role in the Project** | **Effort (%)** |
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**(B) India-based Team**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Staff**  **Type** | **Name** | **Institution/**  **Department** | **Position** | **Role in the Project** | **Effort (%)** |
|  |  |  |  |  |  |
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＊Effort percentage is defined as the percentage of total working hours devoted to this project per week. For instance, 50% means this individual will devote half of his/her working hours to this research project each week

**To be filled by Indian PI**

**FINANCIAL AND ADMINISTRATIVE INFORMATION**

TOTAL COST OF THE PROJECT :

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 enclosed)

2.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Items of expenditure | I Year  (Rs.) | II Year  (Rs.) | III Year (Rs.) | IV Year  (Rs.) | V Year  (Rs.) | Total (Rs.) |
| a)Manpower\* |  |  |  |  |  |  |
| b) Equipments $ |  |  |  |  |  |  |
| c) Consumables# |  |  |  |  |  |  |
| d) Visits by Indian scientists to Japan  (Pl. indicate no. of visits & duration)  International air-fare by lowest economy class including airport taxes and airport transfers in India |  |  |  |  |  |  |
| e) Medical Insurance (silver class) |  |  |  |  |  |  |
| f) Visa Fee |  |  |  |  |  |  |
| g)Visits by Japanese scientists to India  (Pl. indicate no. of visits & duration)  h) Accommodation Charges (Institution guest House as per actual)  Per diem @1 i) Rs.1000 / per day-per-diem |  |  |  |  |  |  |
| j) Domestic travel $# |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |
| Over-head |  |  |  |  |  |  |
| Grand total (Rs.) |  |  |  |  |  |  |

**\*** Please indicate the designation of manpower like JRF, RA etc. including their monthly emoluments as per DST guidelines if any.

$ Kindly attach the list of the equipments with invoice and justification.

# Details of consumables including name and quantity is to be provided with full justification.

$# Kindly indicate the amount including per visit along with justification.

*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 Japanese Principal Investigator agreeing with the objectives, work plan including projected visits from both sides may be enclosed.

5. For transferring the money through electronically (ECS), **r**egistration with Central Plan Scheme and Monitoring System (CPMS) is mandatory, therefore, you are requeired to provide us Name of the Agency (Full name), Name and Designation of A/C holder (as per Bank A/C), Bank Account No., Bank Name and Branch Address, IFSC Code. On receipt of these information the finance division of DST will release the grant to implement the project.

(ECS format attached)

For registering log on to [www.cga.nic.in](http://www.cga.nic.in) (ECS detail)

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

Signature with Date Signature with Date

Indian Principal Investigator 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

**Electronic Clearing System (ECS) Format**

|  |  |  |
| --- | --- | --- |
| 1 | Name of the Agency |  |
| 2 | Name and Designation of A/C holder (as per Bank A/C) |  |
| 3 | Bank Account No. |  |
| 4 | Bank Name and Branch Address |  |
| 5 | IFSC Code |  |
| 6 | MICR Code |  |
| 7 | Name of Principal Investigator |  |
| 8 | E-mail (Agency/ PI) |  |
| 9 | Mobile No. (Agency/ PI) |  |

Agency/ Institution are requested to fill up above mentioned columns for transferring the fund through electronically.

(Kindly also send scanned copy of the cancelled cheque which has all the requisite details if possible).

**Form-1J** （必須）

|  |  |
| --- | --- |
| **科学技術部**  **（MOST）** | **国立研究開発法人**  **科学技術振興機構（JST）** |
| インド | 日本 |

**日本-インド 国際共同研究拠点**

申請様式

研究分野

**「情報通信技術（ICT）」**

**研究題名 （日本語で）**

**日本側研究代表者**

氏名、所属機関及び連絡先 (研究代表者)

姓 :       名:

役職名 :

所属研究室又は部署 :

所属機関:

住所 :

Tel :      　　　　　　　　　 Fax:

Eメール :

本事業以外の競争的資金制度等における応募資格制限の有無：有・無（該当しない方を消してください。）

所属機関契約担当部署 :       　　　　 契約担当者名:

契約担当部署Tel :      　　　　　　　 Eメール:

**インド側研究代表者**

氏名、所属機関及び連絡先(研究代表者)

氏名（カナ表記） 姓 :       名 :

役職名 :

所属研究室又は部署 :

所属機関:

住所 :

Tel :       Fax :

Eメール:

**Form-2J （必須）**

SICORP「国際共同研究拠点」の提案内容に関する要約

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| キーワード |  |  |  |
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|  |  |  |
| 期待される  社会的・経済的貢献  (300字程度)  （左記の要領で） | 「本研究の成果創出により、既存の技術ではなし得なかった○○が可能となり（○○％の△△向上が達成され）、将来は○○への適用が期待される。」  ‐既存技術と比較しての革新性、新たに達成される内容の社会的貢献を数値等で客観的かつ具体的に記載。 | | |
| 共同研究概要  (800字程度)（左記の要領で） | ①「本研究は○○を目的とする。」  －実際に達成する事柄を簡潔に記載。  ②「具体的には、日本側は○○を行い、インド側は△△を行う。」  －双方の分担及び研究内容を具体的に記載。  ③「本研究で日本とインドが、インド側機関に設置した拠点における共同研究に相互的に取り組むことで、○○が期待される。」  －本研究による当該分野での将来期待される事柄（成果・イノベーションの社会実装、社会普及など）をフェーズⅠ、フェーズⅡに区分して簡潔に記載 | | |

**Form-3J （必須）**

# **研究概要図**

* 共同研究の概要を1枚のポンチ絵にまとめてください。
* 研究の目的、期待される成果（定量的数値目標があれば含む）、日本とインドの役割分担等を簡潔に図示してください。
* ファイルサイズが大きくなりすぎないよう注意してください。