INDIA-EU JOINT CALL ON INTEGRATED LOCAL ENERGY SYSTEMS

GUIDELINES FOR INDIAN PARTICIPANTS AND SUBMISSION OF JOINT PROPOSAL

At the EU-India Summit in Brussels in March 2016, the Indian and European leaders have adopted the EU-India Clean Energy and Climate Partnership. They re-confirmed their determination for strong cooperation in the field of clean energy at the Summit in New Delhi in October 2017.

The EU-India Clean Energy and Climate Partnership foresees strengthened cooperation in energy research and innovation, in particular related to renewable energy and its integration in the energy system. As part of the implementation of this Partnership, a joint call for proposal is launched aiming at smartly integrating large amounts of renewable energy in local energy systems and in this way make energy supply cleaner, more efficient and affordable.

This joint call is also fully in line with both the European Union's and India's involvement in Mission Innovation (MI), a global initiative of 24 countries and the European Commission (on behalf of the European Union), committed to reinvigorate and accelerate global clean energy innovation with the objective to make clean energy widely affordable. MI was announced on 30 November 2015, during COP21 in Paris, where world leaders came together to combat climate change through targets and increased efforts.

As founding member, India has committed to double its governmental clean energy research, development and demonstration (RD&D) investments. The EC pushes the acceleration of energy innovation through its research and innovation programme 'Horizon 2020' (2014-2020). Both India and the EU organise on regular basis calls for proposals to address the gaps identified under MI, including through calls specifically targeting international cooperation.

This joint call is conducted on the basis of the principles of the Agreement on scientific and technological cooperation concluded between the EU and India[1].

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[1] https://ec.europa.eu/research/iscp/pdf/policy/india_agreement.pdf#view=fit&pagemode=none

For this joint call for proposals, the EC has committed €9 million under Horizon 2020, Work programme (2018-2020) on Secure, clean and efficient energy; and the Department of Science and Technology (DST), Government of India, agreed to match that amount. In total, funding of €18 million will thus be available.

Proposals should develop and demonstrate novel solutions, integrating all energy vectors (electricity, heating, cooling, water, wastes, etc.), including possibilities offered by batteries and electric vehicles, interconnect them and optimize joint operation with increased share of renewables and a higher energy efficiency. Cooperation will take the form of a proposal demonstrating a local energy system (or several) in Europe and/or India.

The Technology Readiness Level (TRL) will range between 5 and 8.

The call text and call deadlines are the same for applicants from Europe and India. This call targets minimum three participants from India as well as from Europe.

Participation and funding of the Indian participants is as per Indian law and regulations set by DST. The guidelines in this notice explain the conditions for participation and funding and the formalities to comply with in order to submit a valid joint proposal (see Sections 3 and 4 hereunder).

All proposals shouldbe submitted to the Horizon 2020 Funding & Tenders Portal, including the budget requested from DST, as well as to the DST online portal (e-PMS). In the absence of this, DST will disqualify the Indian participants from funding (see Section 5 hereunder).

At the end of the notice, information is also provided on how to access and go about Horizon 2020 formalities, which Indian applicants have also to comply with (Annex 3) and on How to find partners (Annex 4).

For the complete call text, see Annex 1 or click Horizon 2020 Funding & Tenders Portal including the general conditions and modalities. Please check always the call text itself which is the only legally binding text.

CONTENT

Call Focus	Integrated local energy systems (Energy islands): International cooperation with India
Call ID	LC-SC3-ES-13-2020
Eligible Applicant(s)	↘ **Minimum THREE applicants from India.** ↘ **Minimum THREE independent entities from Europe (from three different Member States/Associated Countries)** Eligibility for European applicants will be as per Horizon 2020 rules of participation; For Indian applicants, as per Indian law specified in guidelines hereunder.
Type of action	Innovation Action (IA)
Deadline Model	Single-stage
Submission opens	5th May 2020
Submission deadline	1st September 2020 17:00:00 Brussels time (= 21h30 Indian Standard Time (IST))
Announcement of Results	By mid-December 2020 – end January 2021
Scope	✓ Develop and demonstrate novel solutions which analyse and combine, in a well delimited system, all the energy vectors that are present and interconnect them, where appropriate, to optimise their joint operation that is demonstrated by an increased share of renewables in and higher energy efficiency of the local energy system. ✓ Proposals should present a preliminary analysis of the local case as part of the content of the proposal and propose to develop solutions and tools for the optimisation of the local energy network, that also have a high replication potential across Europe and India. ✓ It should bring together all vital stakeholders: local consumers, small to medium industrial production facilities and/or commercial buildings should be involved in the projects from the start, preferably by creating energy renewable energy communities. ✓ Proposals should propose to develop solutions and tools for the optimisation of the local energy network, that also have a high replication potential across Europe and India. See complete text of call in Annexure 1 and also on websites Horizon 2020 Funding & Tenders Portal
Project Duration	Should not exceed 42 months

Award Amounts	It is considered that proposals requesting a contribution from the EU of between EUR 2.5 to 3.5 million would allow this specific challenge to be addressed appropriately, to be matched by contribution from India/DST for Indian participants as per project requirement in Indian Rupees (₹). Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.
Proposal Forms	Proposal must be prepared according to Horizon 2020 requirements. In addition, Indian applicants need to comply with the administrative & financial requirements as per DST format (see Annex 2).
How to Apply	Complete text of proposals must be submitted to **both** funding agencies: 1) Horizon 2020 - Horizon 2020 Funding & Tenders Portal 2) Project Proposal via the DST online portal e-PMS (see Section 5 point 2) (https://onlinedst.gov.in/Login.aspx)

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SECTION 2:   SPECIFICITIES OF THIS CALL

2.1   Innovation Action (IA)

According to Horizon 2020 rules of participation, an IA consists primarily of activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services. For that purpose they may include prototyping, testing, demonstrating, piloting, large –scale product validation and market replication.

A 'demonstration or pilot' aims to validate the technical and economic viability of a new or improved technology, product, process, service or solution in an operational (or near to operational) environment, whether industrial or otherwise, involving where appropriate a larger scale proto type or demonstrator.

A 'market replication 'aims to support the first application / deployment in the market of an innovation that has already been demonstrated but not yet applied/deployed in the market due to market failures/barriers to uptake. 'Market replication' does not cover multiple applications in the market of an innovation that has already been applied successfully once in the market. 'First' means new at least to Europe or new at least to the application sector in question. Often such projects involve a validation of technical and economic performance at system level in real life operating conditions provided by the market. Projects may include limited research and development activities.

The above definition applies reciprocally to India and thus 'First' means new also in India.

2.2   Scoring and ranking of proposals

Proposals will be scored between 0 and 5 for each of the three criteria: 'impact', 'excellence' and 'implementation'[2]. In the case of an Innovation Action, to determine the ranking among all eligible proposals, the score for the criterion 'impact' will be given a weight of 1.5 (i.e. it will be applied after all proposals have been evaluated and scored out of 15).

2.3   Budget

There is no fixed budget allocation between European and Indian participants. All requests for budget have to be necessary for the execution of the project and justified. Accordingly, consortia and individual partners should not "over claim". This aspect will be duly considered during the evaluation under the 'implementation' criterion, which considers efficiency of the implementation where budget efficiency should be covered.

DST reserves the right to reduce the budget requested in the evaluated projects if the Indian applicants cannot justify effective use and provide the necessary documents / justifications and proof of requested budget.

2.4   Contractual arrangements between Indian and European participants

Indian partners are funded by the DST only, and do not receive funding from Horizon 2020 (neither directly nor indirectly). Therefore, unlike the European partners, they **do not have to sign the Grant Agreement (GA)** with the European Commission's Agency INEA

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[2]   https://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2018-2020/annexes/h2020-wp1820-annex-h-esacrit_en.pdf

(Innovation and Networks Executive Agency), and are not considered beneficiaries in this GA.

According to Article 14a[3] of the Horizon 2020 General Model Grant Agreement[4], successful Indian participants will be named as international partners in the GA. In the GA, international partners must be assigned to a European partner that signs the grant agreement (i.e. a beneficiary). This beneficiary remains responsible towards the Commission/INEA for the action tasks performed by its international partners. The Indian participants have to comply with a number of obligations (such as record-keeping obligations on the scientific and technical implementation of the project, maintaining confidentiality, and promoting the action and visibility to the public funding). For this purpose, the participants are deemed to cover these obligations in the consortium agreement or through bilateral agreements between a beneficiary and an Indian partner.

SECTION 3: RULES OF PARTICIPATION AND FUNDING

3.1 PARTICIPATION

3.1.1 Participants from India

The participating entities/organisations have to be a legal entity as per Indian law.

3.1.2 Participants from EU

- **Entities from Member States of the European Union**[5], including their overseas departments and outermost regions[6]; and
- Entities from **Associated Countries** (AC)[7] to EU R&I Programme 'Horizon 2020'.

Jointly called hereafter participants from **'Europe'.**

|| **To be Noted ||**

EU and Horizon 2020 post Brexit

Following the entry into force on 1 February 2020 of the EU-UK 'Withdrawal Agreement', the UK is no longer a member country of the European Union but a Third Country. The EU consists as from 1 February of 27 member states.

For the participation in Horizon 2020, however, it was agreed that during the transition period (Articles 127(6), 137 and 138), UK can continue to participate in EU programmes, including Horizon 2020, that are financed by the EU's 2014-2020 Multiannual Financial Framework (MFF) until their closure (i.e. for the lifetime of grants). For this call this means that entities

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[3] Article 14a — implementation of action tasks by international partners

https://webgate.ec.europa.eu/funding-tenders/opportunities/content/article-14a-%E2%80%94-implementation-action-tasks-international-partners_en

[4] An annotated version of this Horizon 2020 General Model Grant Agreement is available through this link https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/amga/h2020-amga_en.pdf

[5] https://europa.eu/european-union/about-eu/countries_en

[6] http://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2018-2020/annexes/h2020-wp1820-annex-a-countries-rules_en.pdf

[7] Following countries are associated to Horizon 2020: Albania, Armenia, Bosnia and Herzegovina, Faroe Islands, Georgia, Iceland Israel, Moldova, Montenegro, North Macedonia, Norway, Serbia, Switzerland, Tunisia, Turkey and Ukraine

from the UK (university, institute or company) are eligible for participation and funding, **as if** it was a Member State.

3.1.3 Composition of Consortium

The project should be carried out by a consortium of organisations working together on specific research and innovation areas identified in the call text.

In addition to the **six mandatory participants (3+3)**, there is **no restriction on the additional number of participating** entities/organizations from India and/or Europe.

In essence, the number of project partners should be optimum and correspond to the objectives of the project. Each project should clearly demonstrate the partner's essentiality, complementarities, and added-value in jointly addressing the topic.

According to EC guidelines, a Horizon 2020 project proposal must appoint a consortium beneficiary to serve as the central contact point and represent the consortium towards the EC. This beneficiary is also known as the **'Project Coordinator'**[8]. It is advised to appoint project coordinator from among the European participants, who is familiar with the Horizon 2020 rules, requirements and procedures. Similarly, it is required to nominate among the Indian participants, an Indian Project coordinator, to represent them in the consortium. The Indian Project Coordinator will conduct all official communication with DST.

3.1.4 Gender Balance

Applicants are encouraged to promote equal opportunities in the implementation of the action by ensuring a balanced participation of women and men at all levels of the research and innovation teams and in the management structures.

3.2. ELIGIBILITY

The participating entities/organisations from India have to be a legal entity as per Indian law (Indian applicants) and the European entities as per the Horizon 2020 rules of participation.

3.2.1 Eligibility for Indian Participants

1. **Lead Institution**

   The consortium has to be led by faculties/scientists working in regular position in public funded academia or National / State funded R&D Labs.

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[8] **Project Coordinator**: A project coordinator is the individual who leads a Horizon 2020 project. Most often, the project coordinator will organize the consortium, prepare the proposal and manage the project. The coordinator signs the Grant Agreement for his or her organization with the European Commission and other beneficiaries accede to the Agreement. The coordinator is the only authorized representative of the consortium for any communication with the European Commission. https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/amga/h2020-amga_en.pdf (page 15)

2. Participating Entities in consortia

2.1. Any Public or Private academia.

2.2. Any National or State funded R&D Labs.

2.3. Urban and Local Bodies.

2.4. Non-academic R&D centers/ Research Foundations recognised as Scientific and Industrial Research Organization (SIRO) by DSIR.

2.5. Darpan Portal registered not-for-profit (NGOs, Voluntary Organizations / Trusts) having minimum 3 years of existence and operational.

2.6. Start-up companies registered in India by Indian Resident having valid registration and submission of certificate of incorporation issued under Indian Companies Act; and Start-up Companies issued registration certificate by Ministry of Commerce and Industry.

2.7. An Indian Company registered under the Indian Companies Act, wherein 51% (or more) of the ownership / shareholding /partnerships shall be held by resident Indian citizen(s);

2.8. Section 8 Companies as registered under the Indian Companies Act, 2013.

All Indian applicants should abide /comply with the terms & conditions of the grant of DST (Annex 5, Pro forma– E). To be noted that all requirements and formalities to be considered an eligible entity have to be complied with at the time of the submission of the proposal.

3.2.2 European entities eligible to participate.

- Any natural or legal person[9] (e.g. any company, big or small, research organisations, universities, non-governmental organisations, etc.) regardless of their place of residence or establishment in Europe;

- They must possess the operational and financial viability to carry out the research tasks that they propose.

At least three EU legal entities have to be part of the project consortium and each of these three entities must be established in a different EU Member State or Horizon 2020 associated country and must be independent of each other, i.e.: not controlling one another or being controlled by the same mother company.

Any of the European and Indian participants may be affiliated.

3.3   FUNDING

3.3.1 Funding by DST

3.3.1.1 DST will fund the Indian consortium members through the lead institution as per requirement of the project, and as per the regulations of the DST, as outlined hereunder.

3.3.1.2 Budgeted costs of the project to following entities subject to obligatory fulfilment of eligibility criteria.

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[9]   http://ec.europa.eu/research/participants/docs/h2020-funding-guide/grants/applying-for-funding/find-partners_en.htm

3.3.1.2.1 Funding to academic institutions both public & private or public funded research organisation / Research labs, and urban or other local bodies: DST will support 100% of the approved budget cost.

3.3.1.2.2 Funding to Non-academia, Not-for-profit organization, Industry and Start-ups, Section 8 Companies**:** DST will support 50% of the approved budget cost in specified heads and the remaining 50% contribution shall mandatorily come from them. The funding will be made on reimbursement basis for achieving specific milestones. Funding will be in a phased manner depending on the progress of the project achieving desired milestones and subject to submission of audited accounts as per GFR 2017.

3.3.1.3 Eligible Costs: Minor Equipment, Plant cost / Fabricated systems, Demonstration Models, Manpower, Consumables, Contingency, National Travel, International Travel, Other costs (Outsource work, field trials testing & standardisation etc.) and Overheads.

DST budget for Indian Participants have to be established in conformity with DST terms and conditions (Annexure 5, Pro forma – E), and filled in according to DST Budget Format and Templates (see Annexure 2 and Annexure 5).

3.3.2   Funding by EU

Funding of European partners is as per Horizon 2020 rules of participation and in function of Innovation Action (IA).

For details, see: http://ec.europa.eu/research/participants/data/ref/h2020/other/gm/h2020-grant-factsheet_en.pdf

3.4   PREPARATION OF PROPOSAL

The Indian and European participants must prepare a joint proposal according to the requirements and templates provided by EU & DST respectively and as per Horizon 2020 rules and DST's administrative and financial requirements. Complying with the formats and templates of Horizon 2020[10] and Indian partners is mandatory to upload the proposal in DST website onlinedst.gov.in, failing which their proposal will not be considered.

The Horizon 2020 proposal itself consists of two main parts[11]:

- **Part A:** the **Administrative Forms** containing general information on the project (title, abstract, and keywords), the consortium (basic administrative data, contact persons, declarations) and the budget overview.

- **Part B**: the **Technical Annexure** containing the detailed description of the planned research and innovation project. The structure is based on the evaluation criteria[12] as provided in the proposal template for an Innovation Action (IA).

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[10] https://ec.europa.eu/research/participants/data/ref/h2020/call_ptef/pt/2018-2020/h2020-call-pt-ria-ia-ls2-2018-20_en.pdf

[11]   https://ec.europa.eu/research/participants/data/ref/h2020/call_ptef/pt/2018-2020/h2020-call-pt-ria-ia-2018-20_en.pdf

See H2020 proposal template:
https://ec.europa.eu/research/participants/data/ref/h2020/call_ptef/pt/2018-2020/h2020-call-pt-ria-ia-2018-20_en.pdf

In addition, to the above administrative and financial requirements', Indian applicants must provide detailed information according to DST templates (see Annexure 2). These documents shall be added to the Horizon 2020 online proposal as an Annexure (see Step 5 in Part B and Annexures).

Further mandatory or optional annexures (e.g. supporting documents for regulatory and ethics issues) required by the call and the given topic, as shown in the submission system.

||To be Noted ||

IPR legislation and other rules are crucial for participants in research and innovation projects, as they may have a deep influence on the way in which the knowledge can be shared during a project development, and in which project results can be commercially used.

The participants shall jointly develop a Consortium Agreement (CA)[13]. The CA is a specific agreement to be concluded between the participants in joint research, defining, among other things, ownership, protection, user rights for research and development purposes, exploitation and dissemination, including arrangements for joint publication, the rights and obligations of visiting researchers and dispute settlement procedures. The CA shall also address foreground and background information, licensing and deliverables. For more information see: Annotated Model Grant Agreement, Article 41.3 and the guidance on establishing a consortium agreement[14].

The IPR issues for all the proposals need to satisfy the EU-India S&T Agreement, including the Annex on IPR.

The provisions of IPR Annex of India-EU S&T Agreement would be guiding principles for IPR sharing arrangement between Indian and European consortium. Disputes should be settled by mutual agreement between the parties.

It is essential that the project consortium makes a thorough analysis of the project strengths, weaknesses, opportunities and threats, prior to filling out the technical section. It is equally important to address properly all three selection criteria: scientific excellence, impact and quality and efficiency of the implementation. Given this call is an Innovation Action, impact of the proposal should be duly considered.

3.4.1 Preparation of Budget

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[12] https://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2018-2020/annexes/h2020-wp1820-annex-h-esacrit_en.pdf

[13] http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/amga/h2020-amga_en.pdf#page=291

[14] http://ec.europa.eu/research/participants/data/ref/h2020/other/gm/h2020-guide-cons-a_en.pdf

The "Project Coordinator" must ensure that the financial budget in the joint proposal to the EU is presented in euros (€), while the Indian participants must ensure that the budget requested from DST is presented in Indian Rupees (₹).

The budget submitted by Indian participants to the EU is for indicative purposes; the one submitted to the DST prevails.

3.4.1.1 Part A: budget in Euros (€)

- Part A is partially pre-filled with proposal data on: (1) General information, (2) Participants and contacts, (3) Budget; (4) Ethics and (5) call specific questions;
- Each participant (European and Indian, or any other as the case may be), to indicate cost of their action in euros **in Part A section 3 - Budget for the proposal**.
- The total budget corresponds to the total cost of the project (Colum H).

> **|| to be Noted ||**
> *Indian applicants should indicate "zero" under columns (J), (L) and (O) concerning EU contribution requested from EU Horizon 2020, since they are not eligible for funding from the Horizon 2020 budget, but will be funded by DST.*

3.4.1.2 Part B: Indian participants prepare budget (in Rupees) according to DST requirements and templates

- Indian participants **MUST** submit detailed financial plan in **Indian Rupees (₹)** for duration of the project.
- The detailed Indian financial plan for each Indian participant in the project must be specified according to format provided by DST in Annexure 2:
- Indian applicants must upload their budget in DST format on Horizon 2020 application form (see below: Step 5 in Part B and Annexures)

3.4.1.3 DST's budget calculation for Indian participants

DST budget for Indian Participants have to be established in conformity with DST terms and conditions (Annexure 5, Pro forma – E),and filled in according to DST Budget Format and Templates (see Annexure 2 and Annexure 5).

3.4.2 Participants Information

It is essential that the Indian partners inform at the proposal preparation stage itself that they will not sign the EU Grant Agreement (GA). They should indicate, however, that they participate as an 'International Partner'.

At the time of online submission of Horizon 2020 proposal, the name of the Indian participant(s) should be included as 14a - international partner(s) in Part B of application form (see Section 4.2. of H2020 proposal template on third parties involved in the project including use of third party resources)[15].

SECTION 4:   DST TERMS AND CONDITIONS FOR INDIAN APPLICANT

- Indian applicants should follow the DST's Terms and Conditions (Annexure 5, Proforma – E).
- The final technology developed under the project will have to meet the relevant India / international standards, if already available. Otherwise, all partners will pursue respective organizations at their respective countries for bringing such standards.
- Indian applicants will have to follow the provisions of General Financial Rules (GFR)[16]2017 and / or any other rules as decided by DST/GoI from time-to-time.

SECTION 5:   PROCESS FOR SUBMISSION OF PROJECT PROPOSAL

5.1.   Submission of proposal on Horizon 2020 Funding & Tenders Portal

Proposals must be submitted electronically using the electronic submission system of the Horizon 2020 Funding & Tenders Portal[17]. This task is to be done by the designated Project Coordinator.

Access to the electronic submission system is available after selecting a topic and a type of action of a call. Calls have a specific opening and closing date, called "deadline". After that deadline, a submission to the call is no longer feasible. For more information, see Proposal Submission Service User Manual[18].

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[15] https://ec.europa.eu/research/participants/data/ref/h2020/call_ptef/pt/2018-2020/h2020-call-pt-ria-ia-ls2-2018-20_en.pdf

[16] https://doe.gov.in/sites/default/files/GFR2017_0.pdf

[17]https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/h2020
[18]https://ec.europa.eu/research/participants/data/support/sep_usermanual.pdf
The output / outcome of the project should be validated by the concerned certifying agency, if applicable.
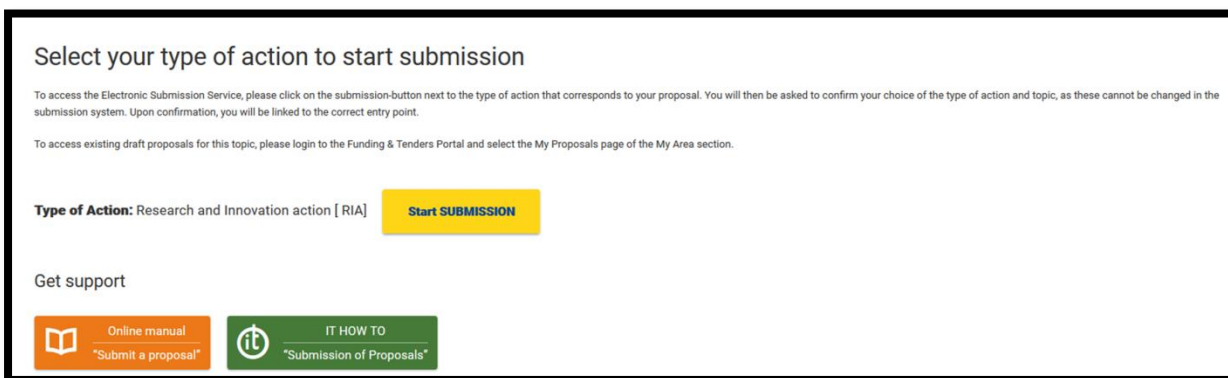
Proposals must be created and submitted by a representative/contact person of the coordinating organization. The electronic submission system is an online wizard that guides you step-by-step through the preparation of your proposal.

As explained above (Section 2 Point 4), a proposal consists of 2 main parts: PART A relating to administrative forms (structured information of the basic administrative data, declarations of partners, organizations and contact persons, etc.) and PART B containing the technical specifications, the detailed description of the planned research and innovation project; outlining work packages, budget and costs, etc.

The documents relating to administrative and financial requirements of Indian applicants should also be part of the Horizon 2020 electronic submission (as an Annexure to the complete proposal).

Further mandatory or optional annexes (e.g. supporting documents for regulatory and ethics issues) may be required, as shown in the submission system.

The **H2020 Online Manual**[19] provides a detailed step-by-step guide on how to electronically submit the proposal.

5.2.   DST proposal format and submission

Indian 'Project Coordinator' should submit complete proposal, **Part A + Part B + administrative and financial form (same as submitted on the Horizon 2020 Funding & Tenders Portal)** as one single consolidated PDF file at e-PMS (www.onlinedst.gov.in) along with other requisite documents. Online e-PMS submission of proposal can be made until 3rd September **2020 at the latest.**

In addition, **two** (2) hardcopies of uploaded proposal should also be sent to DST by Speed Post and reach before 15th September, 2020. The envelope should be superscripted with the title: **"India–EU Joint Call on Integrated Local Energy Systems".**

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[19]http://ec.europa.eu/research/participants/docs/h2020-funding-guide/grants/applying-for-funding/submit-proposals/submission-tool_en.htm

Department of Science and Technology,
New Mehrauli Road, New Delhi -110016

Instructions for uploading proposal to DST on e-PMS

I. Log on onlinedst.gov.in to access the home page of the "DST e-PMS Portal" and register. After registration, log in and submit the joint project proposal in prescribed Format.

II. Before filling up the form Indian applicants are advised to carefully go through the Relevant Advertisement published at the DST Website (www.dst.gov.in) and also available under Proposal Formats in the e-PMS Portal after logging in the portal site.

III. To save time and avoid data loss, please download the appropriate proposal format and fill all the information required as per the format as a Word and PDF file and then keep it ready for upload during submission of mandatory documents.

IV. Click on "Submit proposals" link which would take to a page seeking multiple information starting with – General information, Principal investigator etc.:

V. After filling all above particulars, there is provision for preview your details before final submission of application form on clicking on "Preview" button. Preview page will display all facts/particulars that have mentioned on entry time. If the applicant are sure with filled details then click on "Submit" button to finally push data into server.

Applicants are advised to carefully fill in and verify the details required for the online application themselves, as no change will be possible/ entertained after clicking the FINAL SUBMIT BUTTON.

List of documents required for online submission DST e-PMS

The following documents shall be prepared by Indian PI and upload on the DST Portal- www.onlinedst.gov.in . The requisite format is listed below.

a) Biodata (max size 512KB) (Annexure – 5, Proforma – A)
b) Certificate from Investigator(s) (max size 512KB) (Annexure – 5, Proforma – B)
c) Endorsement from the Head of Organisation and Collaborating Industry/Agency (on letter head) (max size 512KB) (Annexure – 5, Proforma – C and Proforma - D)
d) Conflict of Interest (max Size 512KB) (Annexure – 5, Proforma – F)
e) Complete Proposal (1 pdf file: Part A + Part B + administrative and financial form (same as submitted on the Horizon 2020 Funding & Tenders Portal) as indicated in online portal (max size 5 MB).

5.3.	Formalities to ensure successful submission to Horizon 2020 Funding & Tenders Portal

- Before submitting a proposal, any applicant (from Europe or India) needs to be registered at the H2020 Online Funding & Tenders Portal and obtain for this purpose a Personal Identification Code also called PIC: see registration procedure in Annexure 3);

- Online guidance is also provided on how to fill in the administrative forms (Part A);

- Proposal templates for the technical annex can be downloaded from the system. The technical annex and any additional annexes have to be uploaded as PDF documents;

- The Templates to comply with for DST requirement are available on DSTs website only.

For more details
see:https://ec.europa.eu/research/participants/portal/desktop/en/funding/index.html

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EU Contacts :

- European Commission's "*Research Enquiry Service*":
  http://ec.europa.eu/research/index.cfm?pg=enquiries

Extracted from Horizon 2020 Work programme on Secure, clean and efficient energy. Work programme 2018-2020 updated, pages168-170

Integrated local energy systems (Energy islands): International cooperation with India

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ID: LC-SC3-ES-13-2020
Focus area: Building a low-carbon, climate resilient future (LC)
Type of action: Innovation Action (IA)
Deadline Model: single-stage
Opening date: 05 May 2020
Deadline: 01 September 2020 17:00:00 Brussels time (CET)

Specific Challenge:

The fast growth of energy production from renewable energy sources offers new and economically attractive opportunities for decarbonising local energy systems (e.g. isolated villages, small cities, urban districts, rural areas with weak or non-existing grid connections). It is also a technological and financial challenge for the electricity network to integrate more renewables, but it is also an opportunity to optimise the electricity system operation in synergy with other energy carriers/vectors to increase the hosting capacity for renewables, not just for electricity but also for heating/cooling, transport and/or industry in a sector coupling approach. Novel approaches to optimize network architecture, planning and development based on the opportunities offered by integrated local energy systems and enabled by digitalisation and power electronics can contribute to addressing the challenge, as can storage of electricity in all energy vectors (e.g. electricity, heating, cooling, water, wastes, etc.), including possibilities offered by batteries and electric vehicles.

Integrated local energy systems can be used to create economically attractive conditions to boost local energy sources and activate local demand-response. Innovative approaches, for example based on Renewable Energy Communities, in line with the recently adopted Renewable Energy Directive (EU) 2018/2001, can result in attractive business cases for local investments in smart integrated energy systems with weakly or non-existing grid connections. At the same time, decarbonisation can go hand-in-hand with the improvement of local air quality and citizens' engagement.

Scope:

Proposals will develop and demonstrate solutions which analyse and combine, in a well delimited system, all the energy vectors that are present and interconnect them, where appropriate, to optimise their joint operation that is demonstrated by an increased share of renewables in and higher energy efficiency of the local energy system.

Proposals should present a preliminary analysis of the local case as part of the content of the proposal and propose to develop solutions and tools for the optimisation of the local energy network, that also have a high replication potential across Europe and India.

Local consumers, small to medium industrial production facilities and/or commercial buildings should be involved in the projects from the start, preferably by creating energy renewable energy communities[1].

In bi-lateral discussions between India and the EU, as well as in several international contexts such as the Mission Innovation initiative launched at COP21, the Clean Energy Ministerial and the International Energy Agency Implementing Agreement on Smart Grids (ISGAN), this topic was identified as being of common interest owing to its potential for decarbonisation. In line with the strategy for EU international cooperation in research and innovation (COM(2012)497), international cooperation with India is promoted under this topic.

The cooperation must be under the form of a proposal demonstrating a local energy system (or several local energy systems) in either the EU/Associated Countries or India or both, and through a project work programme with meaningful contributions by entities from the EU/Associated Countries and India.

Mutual learning and extensive exchange between demonstrations in European and Indian contexts is encouraged under this topic. Accordingly, the notion of 'first application/deployment in the market' as specified in the definition of an Innovation Action applies reciprocally to India and thus 'first' means new also in India.

For this topic India-based legal entities[2] in selected proposals have to apply for funding under the Indian co-funding mechanism with the Indian Department of Science and Technology (DST)[3].

TRL will range between 5 and 8 (see part G of the General Annexes). Proposals will indicate the estimated levels of TRL at the beginning and at the end of the project.

Proposals will include a task on the analysis of obstacles to innovation in both the EU and Indian context and foresee the coordination on policy relevant issues (e.g. regulatory framework, business models, data management, consumer engagement) with similar EU-funded projects through the BRIDGE initiative as well as with similar India-funded projects. Coordination and synergies will be explored and, if relevant to the project, may be established with the Clean Energy for EU Islands initiative[4]. An indicative budget share of at least 2% is recommended for the research work associated with these issues and an additional 2% for the coordination effort.

It is considered that proposals requesting a contribution from the EU of between EUR 2.5 to 3.5 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts. This contribution will be combined with a contribution from the Indian DST.

Sharing of Information for the Eligibility Checks and Evaluation:

For applicants from EU and associated countries, the eligibility conditions for Horizon 2020 apply as set out in the General Annexes to the work programme. The eligibility conditions for the Indian applicants will be published in due time by the DST. The eligibility of the applicants will be checked shortly after the closure of the call. For this purpose, the Commission may share a list with project names, proposal numbers and acronyms as well as the names of beneficiaries and international partners per proposal with the DST.

The DST will base their funding decision on the evaluations organised by the European Commission. For this purpose, the Commission may share the evaluation summary reports of

all proposals with the DST. Moreover, the evaluation process will be attended by representatives of the DST. The DST representatives will be bound to confidentiality and have declared the absence of any conflict of interest.

Confidential information will only be shared with the DST under a confidentiality agreement.

Expected Impact:

The supported projects are expected to contribute to all the following impacts:

- validate solutions for decarbonisation of the local energy system while ensuring a positive impact on the wider energy infrastructure, on the local economy and local social aspects, and local air quality;
- enhance the involvement of local energy consumers and producers, preferably by creating energy communities in the development and the operation of local energy systems and test new business models;
- validate approaches, strategies and tools to safely and securely operate an integrated local energy system across energy vectors (electricity, heating, cooling, water, wastes, etc.) so that it is able to integrate higher shares of renewables (than it would in case of separate operation of infrastructures);
- benchmark technical solutions and business models that can be replicated in many local regions and that are acceptable by local citizens.

Proposals are invited to include ad-hoc indicators to measure the progress against specific objectives of their choice that could be used to assess the progress during the project life. Indicators are expected to have clear and measurable targets.

Cross-cutting Priorities:

Socio-economic science and humanities
International cooperation

[1]'Renewable energy community' as defined in DIRECTIVE (EU) 2018/2001 on the promotion of the use of energy from renewable sources.

[2]Article 14a of the Horizon 2020 Model Grant Agreement

[3]https://dst.gov.in/

[4]https://ec.europa.eu/energy/en/topics/energy-strategy-and-energy-union/clean-energy-eu-islands

Indian participant MUST submit additional detailed financial plan in Part B of the Horizon 2020 Application form, according to the format hereunder.

||To be Noted ||
• Project Investigator needs to submit consolidated budget table for all the collaborating organisations. • They also need to submit detailed budget table for each of the collaborating organisations. • Details and Justification should be provided for each head. • The proposals should culminate in a Technology Demonstration.

Format for Budget Details

Name of the Lead Investigator:

Name of the Lead Institution:

Type of Lead Organisation:

Name of the Consortium academic institutions / non- academic institutions / start-ups / industry partners along with their affiliations:

2.1. Budget Summary

2.1.1. Total Project Cost

S. No	Item Head	1st Year		2nd Year		3rd Year		4th Year (6 Months)		Total (Rs.)		Total
		Grants requested from DST	Contribution from Consortium partners	Grants requested from DST	Contribution from Consortium partners	Grants requested from DST	Contribution from Consortium partners	Grants requested from DST	Contribution from Consortium partners	Grants requested from DST	Contribution from Consortium partners	
A	**Non-recurring (Capital Items)**											
1.	Minor Equipment											
2.	Plant & Machinery /Fabricated systems											
3.	Demonstration Models/ Prototypes											
4.	*Subtotal (capital items)*											
B	**Recurring Items (General)***											
1.	Manpower											
2.	Consumables											
3.	Contingencies											

S. No	Item Head	1st Year		2nd Year		3rd Year		4th Year (6 Months)		Total (Rs.)		Total
		Grants requested from DST	Contribution from Consortium partners	Grants requested from DST	Contribution from Consortium partners	Grants requested from DST	Contribution from Consortium partners	Grants requested from DST	Contribution from Consortium partners	Grants requested from DST	Contribution from Consortium partners	
4.	Travel (Domestic)											
5.	Travel (International)											
6.	Other Costs (Outsource work, Field Trials, Testing & Standardisation etc.), if any (Cost break up of each item mandatory)											
7.	Overhead											
8.	Subtotal											

S. No	Item Head	1st Year		2nd Year		3rd Year		4th Year (6 Months)		Total (Rs.)		Total
		Grants requested from DST	Contribution from Consortium partners	Grants requested from DST	Contribution from Consortium partners	Grants requested from DST	Contribution from Consortium partners	Grants requested from DST	Contribution from Consortium partners	Grants requested from DST	Contribution from Consortium partners	
	(General)											
C	**Total cost of the project (A+B)**											

2.1.2. Consortium partners contribution:

S. No	Item Head	Partner 1	Partner 2	---	----	Total
A	**Non-recurring (Capital Items)**					
1.	Minor Equipment					
2.	Plant & Machinery /Fabricated systems					
3.	Demonstration Models/ Prototypes					
	Subtotal (capital items)					
B	**Recurring Items (General)***					
1.	Manpower					
2.	Consumables					

3.	Contingencies				
4.	Travel (Domestic)				
5.	Travel (International)				
6.	Other Costs (Outsource work, Field Trials, Testing & Standardisation etc.), if any (Cost break up of each item mandatory)				
7.	Overhead				
	Subtotal (General)				
C	**Total cost of the project (A+B)**				

2.2. Requirement of Funds from DST-GoI

2.2.1. Total Budget Table

S. No	Item Head	1st Year	2nd Year	3rd Year	4th Year (6 Months)	Total (Rs.)
A	**Non-recurring (Capital Items)**					
4.	Minor Equipment					
5.	Plant & Machinery /Fabricated systems					
6.	Demonstration Models/ Prototypes					
	Subtotal (capital items)					
B	**Recurring Items (General)***					
8.	Manpower					
9.	Consumables					
10.	Contingencies					
11.	Travel (Domestic)					
12.	Travel (International)					
13.	Other Costs (Outsource work, Field Trials, Testing & Standardisation etc.), if any (Cost break up of each item mandatory)					
14.	Overhead					
	Subtotal (General)					
C	**Total cost of the project (A+B)**					

*The cost incurred towards filed trials may be added in appropriate budget heads.

Justification for costs projected in each budget head is required.

To be noted: DST reserves the right to reduce the budget requested in the evaluated projects if the Indian applicants cannot justify effective use and provide the necessary documents / justifications and proof of requested budget.

2.2.2. The break-up of the cost head wise, year wise and Institute wise.

2.2.2.1. The total break-up of the cost head wise and year wise for **Lead Institute:**

S. No	Item Head	1st Year	2nd Year	3rd Year	4th Year (6 Months)	Total (Rs.)
A	**Non-recurring (Capital Items)**					
1.	Minor Equipment					
2.	Plant & Machinery /Fabricated systems					
3.	Demonstration Models/ Prototypes					
	Subtotal (capital items)					
B	**Recurring Items (General)***					
1.	Manpower					
2.	Consumables					
3.	Contingencies					
4.	Travel (Domestic)					
5.	Travel (International)					
6.	Other Costs (Outsource work, Field Trials, Testing & Standardisation etc.), if any (Cost break up of each item mandatory)					
7.	Overhead					
	Subtotal (General)					
C	**Total cost of the project (A+B)**					

2.2.2.2. The total break-up of the cost head wise and year wise for Collaborative **Institutes**

S. No	Item Head	1st Year	2nd Year	3rd Year	4th Year (6 Months)	Total (Rs.)
A	**Non-recurring (Capital Items)**					
1.	Minor Equipment					
2.	Plant & Machinery /Fabricated systems					
3.	Demonstration Models/ Prototypes					

S. No	Item Head					
	Subtotal (capital items)					
B	**Recurring Items (General)***					
1.	Manpower					
2.	Consumables					
3.	Contingencies					
4.	Travel (Domestic)					
5.	Travel (International)					
6.	Other Costs (Outsource work, Field Trials, Testing & Standardisation etc.), if any (Cost break up of each item mandatory)					
7.	Overhead					
	Subtotal (General)					
C	**Total cost of the project (A+B)**					

2.2.2.3. The total break-up of the cost head wise and year wise for **Industry**

S. No	Item Head	1st Year	2nd Year	3rd Year	4th Year (6 Months)	Total (Rs.)
A	**Non-recurring (Capital Items)**					
1.	Minor Equipment					
2.	Plant & Machinery /Fabricated systems					
3.	Demonstration Models/ Prototypes					
	Subtotal (capital items)					
B	**Recurring Items (General)***					
1.	Manpower					
2.	Consumables					
3.	Contingencies					
4.	Travel (Domestic)					
5.	Travel (International)					

6.	Other Costs (Outsource work, Field Trials, Testing & Standardisation etc.), if any (Cost break up of each item mandatory)					
7.	Overhead					
	Subtotal (General)					
C	**Total cost of the project (A+B)**					

Note: If there is more than one collaborative institute kindly provide the total break-up of the cost head wise and year wise separately for each.

2.3. Summary:

	Grant requested from DST	**Own Contribution**	**Total**
Lead Institute			
Collaborative Partner 1			
Collaborative Partner 2			
…			
….			
Total Grant			

Details of Itemized Budget

(* To be given institution/ research group-wise in case of consortium projects)

A.   Non-recurring (Capital Items)

A.1   Minor Equipment* (With Quotations)

Budget for Minor Equipment (To be borne by DST)

Description of Minor Equipment	Unit Landed Price (CIF+ Custom Duty/ Taxes + others charges etc.)* (Rs.in lakh)	Nos. of Equipment	Total Cost (Rs. in lakh)	Justification in context of proposed work.
		Gross total =		

Page/sheet indicating the total landed cost in Indian rupees (Ensure to mention Currency Exchange rate considered in case of imported equipment,** freight, taxes, spares, special installation, etc.) Please project the actual cost taking into account reliable cost estimates as no cost revision would be admissible*

A.2   Plant & Machinery /Fabricated systems (if any) (With Quotations)

i) Budget for Plant & Machinery /Fabricated systems

Description of Plant & Machinery /Fabricated systems	Unit Landed Price (CIF+ Custom Duty+ others charges)* (Rs in lakh)	Nos. of Equipment	Total Rupees (Rs. in lakh)	Justification in context of proposed work
	Gross total			

Page/sheet indicating the total landed cost in Indian rupees (Ensure **to mention Currency Exchange rate considered in case of imported equipment, freight, taxes, spares, special installation, etc.) Please project the actual cost taking into account reliable cost estimates as no cost revision would be admissible*

A.3   Demonstration Models/ Prototypes (With Quotations)

i) Budget for Demonstration Models items

Description of Demonstration Models/ Prototypes	Unit Landed Price (CIF+ Custom Duty+ others charges)* (Rs in lakh)	Nos. of Equipment	Total Rupees (Rs. in lakh)	Justification in context of proposed work
	Gross total			

*Page/sheet indicating the total landed cost in Indian rupees (Ensure **to mention Currency Exchange rate considered in case of imported equipment,** freight, taxes, spares, special installation, etc.) Please project the actual cost taking into account reliable cost estimates as no cost revision would be admissible*

B.   Recurring Items (General)

B.1   Manpower

Designation*	Educational Qualification	Experience in years, if applicable	Justification

*Refer guidelines at DST website: http://dst.gov.in/whats_new/main-new.htm

(Emoluments shall be provided as per Guidelines for Research fellow, Scientist and Assistant)

Manpower Budget

JRF /SRF/ Research Associates/ Project Assistants   Details (applicable for the given category)

Designation	Total Emoluments (in Rupees)					No. of persons	(Inclusive of all Allowances) Total Amount (Rs.)
	1st Year	2nd Year	3rd Year	4th Year (6 Months)	Total (1st +2nd+3rd+4th Year (6 Months)		
	Gross amount required for manpower budget head =						

Please mention category/ class of city for admissible HRA along with %.

B.2   Consumables (With Quotations)

Budget for Consumable Materials (*To be borne by DST*)

Items	Unit Price	Qty. Needed	Amount (Rs. in lakh)	Justification
Gross total =Rs. lakh				

B.3   Contingencies

Budget for Contingencies (*To be borne by DST*)

Items (unforeseen expenses, patents, report preparations etc.)	Amount (Rs. in lakh)	Justification
Total		

B.4   Travel Domestic *

Budget for Domestic Travel (To be borne by DST)

Items (to attend)	Total Amount	Detailed Justification (In case of extensive field visits needed in project indicating breakup of cost w.r.t. to journeys, mode and class of transport needed)
Review meetings		
Total		

B.5   Travel International *

Budget for International Travel (To be borne by DST)

Items (to attend)	Total Amount	Detailed Justification
Total		

B.6 **Other Costs**, **if applicable**

Budget for Other Costs (To be borne by DST)(**With Quotations**)

Item	Total (Rs. in lakh)	Detailed Justification (derived cost calculation and relevant Quotation at Annexure- / page no*)
Outsource work		
Field Trials		
Testing / Standardisation		
Other items, if any		
Gross total =	Rs.	

Collaborator budget / Contribution

Submit similar above detail breakup for each collaborator, if any

Organization details:

    a. Designation of the financial authority in organization:

    b. Whether organization registered with Govt. of India Central Plan Scheme Monitoring System* (CPSMS): Yes/ No

    *(see website: http://cpsms.nic.in/Users/LoginDetails/Login.aspx?ReturnUrl=/default.aspx)

    c. If not, please get it registered as soon as possible at CPSMS website which is mandatory. If yes, inform Agency code registered at CPSMS

1.   How to Participate:

https://ec.europa.eu/research/participants/portal/desktop/en/funding/index.html

By selecting the "How to Participate" tab on the Horizon 2020Funding & Tenders Portal "Home" page, researchers and innovators are directed to a page that provides easy access and instructions for using key parts of the portal (see screen shot below):

- ➢ Create an Account
- ➢ Register an Organization
- ➢ Find Partners
- ➢ Find a Call for Proposals
- ➢ Submit a Proposal

2.   Online Manual and Reference Documents

http://ec.europa.eu/research/participants/docs/h2020-funding-guide/index_en.htm

From the page below, researchers and innovators can access the comprehensive user-friendly Online Manual (see screen shot below) and reference documents for all parts of Horizon 2020.

3.   Support

The "Support" tab on the Horizon 2020 Funding & Tenders Portal "Home" page provides access to the Horizon 2020 Helpdesk, the IT Helpdesk, a Glossary of Terms and FAQs as well as links to support organizations such as Horizon 2020 National Contact Points (NCPs) and the Enterprise Europe Network (EEN).
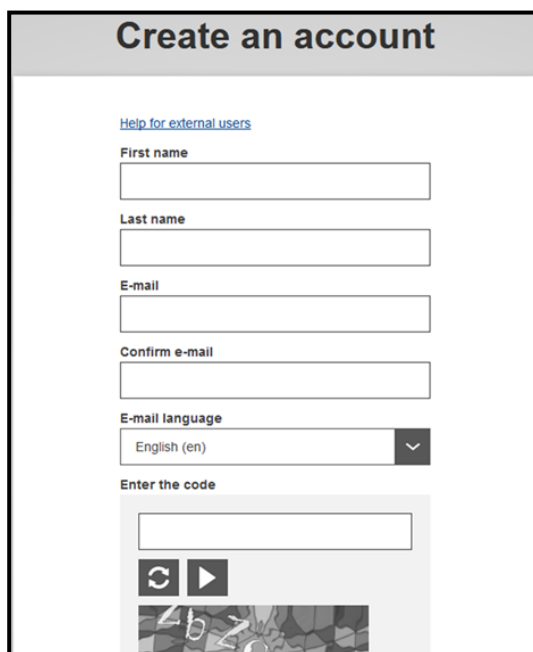
4.   Opening an Account

A.   Individuals: European Commission Authentication Service (ECAS)

https://webgate.ec.europa.eu/cpnp/public/ecas-create.cfm

To enter the secure area in Horizon 2020 Funding & Tenders Portal, a person must first open an account with the European Commission Authentication Service (ECAS). The service acts as a firewall for the Horizon 2020 Funding & Tenders Portal. Anyone may establish an account with ECAS and enter the Horizon 2020 Funding & Tenders Portal. There is no limit on the number of individual accounts that can be affiliated with a given organization.

To open an ECAS account, select "Register" on the home page of the Horizon 2020 Funding & Tenders Portal (see screen shot above) and enter the information required (username and email address). A password will be sent to your email address within minutes. Return to the home page of the Horizon 2020 Funding & Tenders Portal and select "Login." You will be directed to the page in the screen shot below. When prompted to indicate a user "Domain," select "External" to indicate that you are not a Commission employee. Use the new password to gain access to the Horizon 2020 Funding & Tenders Portal. This is the main gateway for registered people and organizations to the Portal.
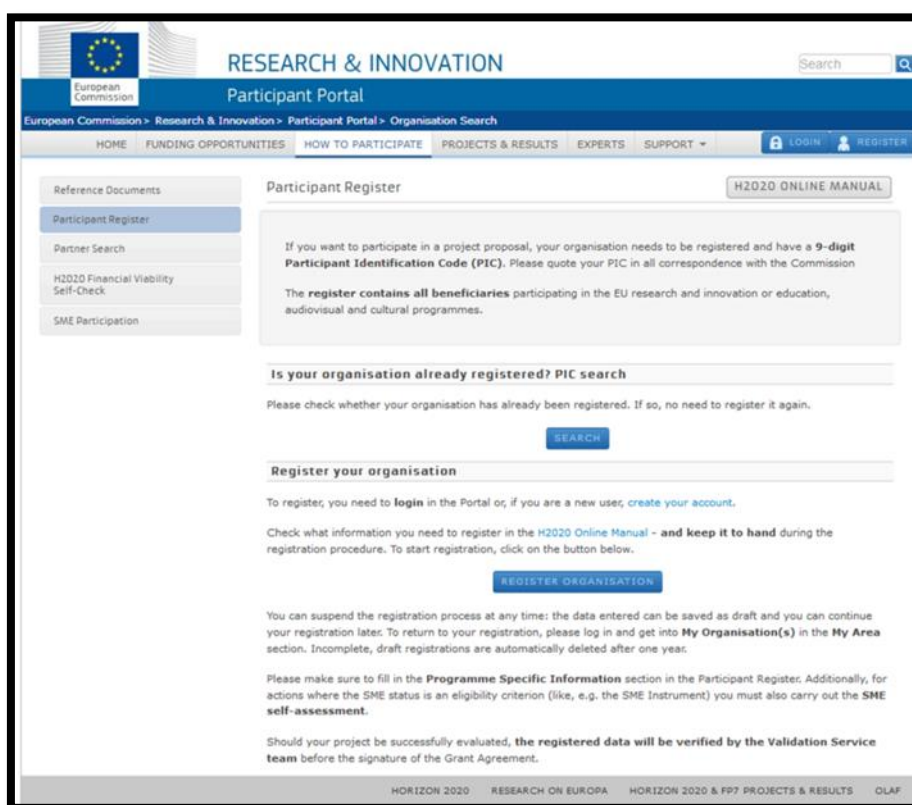

Once logged into the Horizon 2020 Funding & Tenders Portal, one should complete the user account by identifying the organizations and/or proposals and projects with which they are associated and then establishing their role or roles in these.

B.   Registering an Organization (Legal Entity) || Participant Information Code (PIC)

https://ec.europa.eu/research/participants/portal4/desktop/en/organisations/register_sec.html

To participate in a Horizon 2020 project, a researcher must be registered as legal entity at the Horizon 2020 Funding & Tenders Portal of the European Commission. Once registered, organizations receive a unique nine digit "Participant Identification Code" (PIC) that is required for any organisation to submit a proposal. The Commission will use the PIC in all interactions with the organization and associated researchers.

If an organization has previously signed an EU Framework Programme Grant Agreement, it already has a PIC. If this is the case, then a researcher should contact the appropriate person or office within the organization (e.g. Office of Research Services, Office of International Research) to obtain the PIC. Alternatively, they can query the online PIC database by selecting the "Beneficiary Register" in the Horizon 2020 Funding & Tenders Portal (highlighted in blue on the left side in the screen shot below) or by following the link above.

If an organization does not have a PIC, it must obtain one by registering in the Organization Register. It is hosted within the Horizon 2020 Funding & Tenders Portal and can be accessed by selecting "Beneficiary Register." To complete the registration, information regarding the legal status and finances of the organization will be required. If it is not possible to complete the registration in one session, the information may be saved and re-opened by selecting "My Organizations" in the Horizon 2020 Funding & Tenders Portal (highlighted in dark blue on the left side in the screenshot above). Once complete, a provisional PIC will be provided electronically within 48 hours.

Please note that, only if a proposal is successful, the European Commission will proceed with the validation of all information in the Organization Register, and provide a definitive PIC.

The starting point is to consider partners with whom you already have direct or indirect connections. As participation in a Horizon 2020 call requires an interdisciplinary and/or inter-sectoral approach for a challenge to be addressed appropriately, it may become necessary to look for partners outside the usual circle of contacts.

Hereunder you will find a list of European services that assist in finding the right partners:

Partner search tools	
Expressed Interest	Horizon 2020 Funding & Tenders Portal: search by call topics where organisations have participated or expressed interest in participating in the future.
euMatch 2.0	Partner Search and Matchmaking platform to find partners and project initiatives to participate in H2020 supported health related projects.
Funding & Tender Opportunities partner search platform	Search among partners of existing projects.
Enterprise Europe Network (EEN) cooperation opportunities database	Includes both business and technology offers and requests.
Bridge H2020	BRIDGE is a European Commission initiative which unites Horizon 2020 Smart Grid and Energy Storage Projects to create a structured view of cross-cutting issues which are encountered in the demonstration projects and may constitute an obstacle to innovation and uptake of project results. The BRIDGE process fosters continuous knowledge sharing amongst projects through four different Working Groups representing the main areas of interest: data management; business models; regulations and customer engagement. For more information, see: https://www.h2020-bridge.eu/
Clean Energy for EU Islands	Finding island partners for EU funding
C-Energy 2020	Secure, clean and efficient energy & Euratom & FCH 2 JU Dedicated Partner Search tool
Partnering events	
Information Days on upcoming calls	DG ENERGY AND DG Research and Innovation (RTD) occasionally organises information and networking days in Europe. Details of these events will be available online and will be distributed through the Network of National Contact Points of the countries having appointed such contact points. India has no NCPs. Info about the last Info Day webinar is available here
Information days & networking events in India	DST and the Delegation of the European Union to India will be organising networking events in a number of cities in India. Details of these events will be available on website of DST: http://www.dst.gov.in / and of EU Delegation to India: https://eeas.europa.eu/delegations/india_en

8th EU India Smart Grids Workshop in Paris	During the 8th and 9th EU India Smart Grids Workshop, which were respectively held in Paris (France) on 14 November 2019 and in Delhi (India) on 4 March 2020, Information and Matchmaking was organised on the objectives and scope of this joint call.
Brokerage events organised by the Enterprise Europe Network	Often back-to-back with key trade fairs and conferences.
National Contact Points	
National Contact Points	Personalised support & assistance in partner search in applicants' respective countries.
Euraxess India	Partnering tools for Horizon 2020 calls.
Databases of previous and ongoing projects	
CORDIS project database	Projects funded under Horizon 2020 as well as previous research framework programmes.
Horizon 2020 SME Instrument	Innovation by small and medium-sized companies in the fields of eco-innovation & sustainable supply of raw materials, and environment & climate action.

Proforma - A

Bio-Data of Principal Investigator(s) (PI), Co-Principal Investigator(s) (Co PI) and Coordinating Investigator of each partner Institution (Please be brief and follow the format)

1. **Name**

2. **Gender**

3. **Date of Birth**

4. **Category:**
   (General/OBC/SC/ST)

5. **E-mail ID**

6. **Qualifications**

S. No.	Degree	Institution	Year	Division/Class

7. **Employment Experience**

S. No.	Position & Organisation	Nature of Job	Period

8. **Selected List of Ten Best Publications** *(relevant to the proposed project)*

9. **Patents filed/Granted with details** *(relevant to the proposed project)*

10. **Books Published /Chapters contributed** *(relevant to the proposed project)*

11. **Sponsored Research Projects (last five years)**

S. No	Title	Sponsoring Agency and Officer Concerned	Period	Amount	Achievements

a. **Consultancy Projects (last five years)**

S. No	Title	Sponsoring Agency	Period	Amount

b. **Sponsored Research/Consultancy Projects submitted for approval**

S.No.	Title	Funding Agency	Duration	Amount

12. **Awards and Honours:**
   A. National list
   B. International list:

13. **Technologies Developed / Transferred:** (please provide details of technologies transferred to industry, technologies commercialized)

Date   (Signature of PI)

CERTIFICATE FROM THE INVESTIGATOR(S)

Project Title:

1. I/We have carefully read the terms and conditions of the Clean Energy Research Initiative (CERI) Programme and I/We agree to abide by them.
2. I/We have not submitted this or a similar Project proposal elsewhere for financial support.
3. I/We will not propose any equipment's from DST for the facilities already available in the institute.
4. The research work proposed in the scheme/project does not in any way duplicate the work already done or being carried out elsewhere on the subject.
5. I/We undertake that spare or idle capacity of the permanent equipment procured under the project will be made available to other legitimate users from parent and other organizations.
6. I/We will be responsible for coordination with consortium partner(s) for successful completion of the above project. I/We also undertake to obtain the vetting of DST on any consortium agreement or bilateral agreement with international/national partners.
7. I/We have enclosed the following :

A	Endorsement from the Heads of the Institution *(on letter head)*
B	Undertaking from the Collaborator(s) *(on letter head)*
C	Complete Project Proposal with all enclosures

Name(s) and Signature(s) of the Investigators*

Date
Place

(* To be signed by PI and Co-PI of each Participating Institution)

ENDORSEMENT FROM THE HEAD OF THE ORGANISATION
(*To be typed on the letter-head of the organization*)
(To be provided by each of the participating Institutions)

Project Title

1. Certified that the organization welcomes the participation of Dr/Mr/Mrs ………………..as the PI and Dr/Mr/Mrs………………as the Co-PI for the project and that in the unforeseen and legitimate event of discontinuation by the PI, the Co-PI will assume full responsibility for completion of the project. Information to this effect, endorsed by me, will be promptly sent to the DST
2. The date of project starts from the date on which the University/Institute/ Organisation/College receives the grant from DST, New Delhi.
3. The investigator will be governed by the rules and regulations of University/ Institute/Organisation/College and will be under administrative control of the University/ Institute/Organisation/College for the duration of the project.
4. Certified that the equipment, other basic facilities and other administrative facilities as per the terms and conditions of the award of the Project, will be extended to the investigator(s) throughout the duration of the project.
5. The grant-in-aid by the DST, New Delhi will be used to meet the expenditure on the project and for the period for which the project has been sanctioned as mentioned in the sanction order.
6. The disbursement of DST grant to the consortium partner(s) will be the responsibility of the lead institutions and abide by the terms and conditions of DST.
7. The Organization shall ensure that financial and purchase procedures are followed as per the prevailing norms of the organization, within the allocated budget.
8. The Organisation shall provide timely the Statement of Expenditure and the Utilisation Certificate of the grant as required by the DST in the prescribed format. The lead institution shall submit consolidated SE/UC (along with consortium partners utilization of DST funds) to DST periodically.
9. **The grant for the proposal, if approved, the funds shall be transferred to following organization account :**

1	Name of A/c holder (as per Bank record)	
2	Bank Account No.	
3	Bank Branch Name & Address	
4	MICR Code	
5	IFSC Code	
6	E-mail (Agency /PI)	
7	Mobile No. (Agency/PI)	
8	Unique agency code*	

* As per the extant guidelines of Govt. of India, institutes are requested to register f on PFMS website and inform unique agency code to facilitate the electronic fund transfer. {website link-https://pfms.nic.in/Users/LoginDetails/Login.aspx}.

(Head of the Institute)
Seal/Stamp

Date
Place

Endorsement from collaborating Industry/ Agency *(if any)*

(On the official letter head)

I have gone through the Project proposal entitled…………..   submitted by ……………*(Name of PI)* …of…………….*(Name of the Institute)* for DST funding and noted the obligations and responsibilities indicated in our name which are as below :

1. Contribution in financial terms *(mention amount in Rs.)*

2. Contribution in kind *(list activities)*

I hereby affirm that my organization/ industry is committed to participate in the Project to the full extent as indicated including financial liabilities accruing therefrom as detailed above. A brief profile of my organization is summarised below:

        Name of Organisation
        Line of Business/ Major Products
        No. of employees
        Annual Turn over

The Annual Report for the last financial year is enclosed.

                                        (Head of the Organisation)
                                        Seal/Stamp

Date
Place

Department of Science & Technology
Terms & Conditions of the Grant

1.   Approval of the Research Proposal and the grant released is for the specific Project sanctioned and the released grant should be exclusively spent on the Project within the stipulated period. The Institution may use funds obtained from any other Organisation with the concurrence of DST, for the Project. **Any un-spent balance out of the amount sanctioned must be surrendered to the Government of India through Non-Tax Receipt Portal (NTRP), i.e., www.Bharatkosh.gov.in.**

2.   For permanent, semi-permanent assets acquired solely or mainly out of the Project grant, an audited record in the form of a register shall be maintained by the Organisation. The term "Assets" include (a) the immovable property acquired out of the grant; and (b) movable property of capital nature where the value exceeds Rs 1000/-. The Organisation is required to send to the Department of Science & Technology a list of Assets acquired from the grant. The grant shall not be utilized for construction of any building unless a specific provision is made for that purpose. Full infrastructural facilities by way of accommodation, water, electricity, communication, etc. for smooth implementation of the Project shall be provided by the Organisation.

3.   All the Assets acquired from the grant will be the property of the Government of India and should not be disposed off or encumbered or utilized for purposes other than those for which the grant had been sanctioned, without the prior sanction of DST.

4.   At the conclusion/ termination of the Project, the Government of India will be free to sell or otherwise dispose off the Assets which are the property of the Government. The Organisation shall render to the Government necessary facilities for arranging the sale of these Assets. The Government of India has the discretion to gift the Assets to the Organisation or transfer them to any other Organisation if it is considered appropriate.

5.   The Organisation / PI will furnish Six-Monthly Progress Report of the work on the Project on half-yearly basis. The first half-year period shall be rounded off to the last date of the sixth month. The subsequent periods of six months shall begin from the first day of the following calendar month. In addition, DST may designate a Scientist/ Specialist or an Expert Panel to visit the Organisation periodically to review the progress of the work being carried out and to suggest suitable measures to ensure realisation of the objectives of the Project. During the implementation of the Project, the Organisation will provide all facilities to the visiting scientist/ specialist or the Expert Panel by way of accommodation, etc. at the time of their visit. On completion of the Project, three hard copies and soft copy of a self contained Project Completion Report as per the DST format on the work done on the Project should be sent to DST.

6.   For each each fiscal year ending or at the time of seeking further installment of the grant, which ever comes earlier the Organisation/ PI has to furnish the following documents:
   a.   Duly signed financial year wise Final Utilization Certificates (UCs) from date of start to date of completion for recurring (Grants-in-aid General) for the project as per the DST (12-A) format.
   b.   Duly signed financial year wise Final Utilization Certificates (UCs) from date of start to date of completion for non-recurring (Grants for creation of capital assets) for the above captioned project as per the DST (12-A) format.
   c.   Duly signed latest & Final statement of expenditure for recurring (Grants-in-aid General) as per the DST format.
   d.   Duly signed latest & Final statement of expenditure for non-recurring (Grants for creation of capital assets) as per the DST format.

    e.   Duly signed list of equipment with cost.

7. The grant-in-aid being released is subject to the conditions that

    (i) a transparent procurement procedure in line with the Provisions of GFR 2017 will be followed by the GI under the appropriate rules of the GI while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the GI immediately on receipt of the grant.

    (ii) while submitting Utilization Certificate/Statement of Expenditure, the GI has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.

8. The Grantee Institute will have to enter and upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS. The GI should employ EAT module in PFMS.

9. Request for specific approval of DST to **carry forward** the unutilised grant to the next financial year for utilisation for the same Project, should be sent along with UC and SE, after completion of the financial year.

10. **The account of the GI shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the GI is called upon to do so, as laid down under Rule 236 (1) of GFR 2017.**

11. The organization will maintain separate audited account for the project individually for recurring and non-recurring and the entire amount of grant will be kept in an interest bearing bank account. All interests and other earnings, against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e., www.Bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/Utilization Certificate for considering subsequent release of grant/closure of project accounts..

12. The Organisation will not entrust the implementation of the work (except the out-sourced part as approved) for which the grant has been sanctioned to any other Organisation nor will it divert the grant receipts to any other Organisation as assistance. In case the Organisation is not in a position to implement or complete the Project, it should, forthwith, refund to DST the entire grant received by it or the balance grant remaining with it.

13. All the personnel including Research personnel appointed under the Project, for the full/ part duration of the Project, are to be treated as temporary employees and will be governed by the administrative rules/ service conditions (for leave, TA/DA, etc.) of the implementing Organisation. They are not to be treated as employees of the Government of India and DST will have no liability, whatsoever, for the project staff after the completion of the Project duration.

14. For expeditious implementation of the research Project, PI will take the assistance of the Organisation in the process of selection and appointment of staff and payment to them. Pay

Scale and emoluments for the posts not covered under DST's OM are governed by the norms prevalent in the implementing Organisation or as agreed upon in consultation with DST.

15. **DST reserves the right to terminate the Project at any stage if it is convinced that the grant has not been properly utilised or satisfactory progress is not being made.**

16. **The Project becomes operative with effect from the date on which the fund has been received by the implementing Organisation.** This date should be immediately intimated by the Organisation authorities/ Principal Investigator to DST.

17. If PI to whom a grant for a Project has been sanctioned wishes to leave the Organisation where the Project is based, PI/ Organisation will inform DST of the same and in consultation with DST, take steps to ensure successful completion of the Project, before PI is relieved.

18. Investigators wishing to publish technical/ scientific papers based on the research work done under the Project, should acknowledge the support received from DST, indicating the Programme. Investigators are expected to publish a few of their research papers emerging out of the Project in leading Indian Journals.

19. Due acknowledgement of technical support/financial assistance resulting from this project grant should mandatorily be highlighted by the GI in bold letters in all publications/media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

20. If the results of research are to be legally protected, the results should not be published without securing legal protection for the research results. For Projects identified to have a distinct potential for generating know-how, in the form of product/ process, that could be protected through patenting, copyrights etc.

21. Grantee institution / organization shall abide by the provisions of the GFR 2017 or any other financial rules prevailed from time to time.

Name(s) and Signature(s) of the Investigators*

Date
Place

(* To be signed by PI and Co-PI of each Participating Institution)

DEPARTMENT OF SCIENCE AND TECHNOLOGY
POLICY ON CONFLICT OF INTEREST

FOR APPLICANT

Issues of Conflicts of Interest and ethics in scientific research and research management have assumed greater prominence, given the larger share of Government funding in the country's R & D scenario. The following policy pertaining to general aspects of Conflicts of Interest and code of ethics, are objective measures that is intended to protect the integrity of the decision making processes and minimize biasness. The policy aims to sustain transparency, increase accountability in funding mechanisms and provide assurance to the general public that processes followed in award of grants are fair and non-discriminatory. The Policy aims to avoid all forms of bias by following a system that is fair, transparent and free from all influence/ unprejudiced dealings, prior to, during and subsequent to the currency of the programme to be entered into with a view to enable public to abstain from bribing or any corrupt practice in order to secure the award by providing assurance to them that their competitors will also refrain from bribing and other corrupt practice and the decision makers will commit to prevent corruption, in any form, by their officials by following transparent procedures. This will also ensure a global acceptance of the decision making process adopted by DST.

Definition of Conflict of Interest:

Conflict of Interest means "any interest which could significantly prejudice an individual's objectivity in the decision making process, thereby creating an unfair competitive advantage for the individual or to the organization which he/she represents". The Conflict of Interest also encompasses situations where an individual, in contravention to the accepted norms and ethics, could exploit his/her obligatory duties for personal benefits.

1. **Coverage of the Policy**:

   a) The provisions of the policy shall be followed by persons applying for and receiving funding from DST, Reviewers of the proposal and Members of Expert Committees and Programme Advisory Committees. The provisions of the policy will also be applicable on all individuals including Officers of DST connected directly or indirectly or through intermediaries and Committees involved in evaluation of proposals and subsequent decision making process.

   b) This policy aims to minimize aspects that may constitute actual Conflict of Interests, apparent Conflict of Interests and potential Conflict of Interests in the funding mechanisms that are presently being operated by DST. The policy also aims to cover, although not limited to, Conflict of interests that are Financial (gains from the outcomes of the proposal or award), Personal (association of relative / Family members) and Institutional (Colleagues, Collaborators, Employer, persons associated in a professional career of an individual such as Ph.D. supervisor etc.)

2. **Specifications as to what constitutes Conflict of Interest**.

Any of the following specifications (non-exhaustive list) imply Conflict of Interest if,

(i) Due to any reason by which the Reviewer/Committee Member cannot deliver fair and objective assessment of the proposal.

(ii) The applicant is a directly relative# or family member (including but not limited to spouse, child, sibling, parent) or personal friend of the individual involved in the decision making process or alternatively, if any relative of an Officer directly involved in any decision making process / has influenced interest/ stake in the applicant's form etc.

(iii) The applicant for the grant/award is an employee or employer of an individual involved in the process as a Reviewer or Committee Member; or if the applicant to the grant/award has had an employer-employee relationship in the past three years with that individual.

(iv) The applicant to the grant/award belongs to the same Department as that of the Reviewer/Committee Member.

(v) The Reviewer/Committee Member is a Head of an Organization from where the applicant is employed.

(vi) The Reviewer /Committee Member is or was, associated in the professional career of the applicant (such as Ph.D. supervisor, Mentor, present Collaborator etc.)

(vii) The Reviewer/Committee Member is involved in the preparation of the research proposal submitted by the applicant.

(viii) The applicant has joint research publications with the Reviewer/Committee Member in the last three years.

(ix) The applicant/Reviewer/Committee Member, in contravention to the accepted norms and ethics followed in scientific research has a direct/indirect financial interest in the outcomes of the proposal.

(x) The Reviewer/Committee Member stands to gain personally should the submitted proposal be accepted or rejected.

The Term "Relative" for this purpose would be referred in section 6 of Companies Act, 1956.

3. **Regulation**:

The DST shall strive to avoid conflict of interest in its funding mechanisms to the maximum extent possible. Self-regulatory mode is however recommended for stake holders involved in scientific research and research management, on issues pertaining to Conflict of Interest and scientific ethics. Any disclosure pertaining to the same must be made voluntarily by the applicant/Reviewer/Committee Member.

4. **Confidentiality**:

The Reviewers and the Members of the Committee shall safeguard the confidentiality of all discussions and decisions taken during the process and shall refrain from discussing the same with any applicant or a third party, unless the Committee recommends otherwise and records for doing so.

5. Code of Conduct

(a) The applicant must refrain from suggesting referees with potential Conflict of Interest that may arise due to the factors mentioned in the specifications described above in Point No. 2.

(b) The applicant may mention the names of individuals to whom the submitted proposal should not be sent for refereeing, clearly indicating the reasons for the same.

6. Final Appellate authority:

Secretary, DST shall be the appellate authority in issues pertaining to conflict of interest and issues concerning the decision making process. The decision of Secretary, DST in these issues shall be final and binding.

7. Declaration

I have read the above "Policy on Conflict of Interest" of the DST applicable to Applicant and agree to abide by provisions thereof.

I hereby declare that I have no conflict of interest of any form pertaining to the proposed grant *

I hereby declare that I have conflict of interest of any form pertaining to the proposed grant *

* & # (Tick whichever is applicable)

                                                  Name(s) and Signature(s) of the Investigators*

Date
Place

                                (* To be signed by PI and Co-PI of each Participating Institution)