



Program Document

2nd Call for proposals under IMPACT Program of IPTIF **(Innovation-to-Market Product Acceleration in Cyber Physical Technologies)**



Funding support up to INR 1.00 Cr for Technology/Product Development in Intelligent Collaborative Systems (ICS) for Energy, Safety & Other domains

I. Background

About IPTIF: The Department of Science and Technology (DST) has created a National Mission on Interdisciplinary Cyber Physical Systems (NM-ICPS), under which a total budget of Rs. 3660 Crores has been committed to establish 25 Technology Innovation Hubs (TIH) across India. The Technology Innovation Hub (TIH) is designed to facilitate product and technology development, promote skill enhancement, and encourage the growth of startups. Furthermore, it aims to establish collaborations with industries, corporates and academic institutions, both domestically and globally.

Under this National Mission, IIT Palakkad has established IIT Palakkad Technology IHub Foundation (IPTIF) to facilitate the Technology Innovation in Intelligent Collaborative Systems (ICS) with support from NM-ICPS coordinated by the DST, Govt. of India. IPTIF plans to attract

potential and harness expertise available nationwide to foster research innovation, world class technology and product development.

Modeling, analysis, control, devices, networks, power electronics, robotics, data and simulations are all building blocks of CPS technologies. Intelligent collaboration of these building blocks (Intelligent Collaborative Systems (ICS)) for developing technologies & products having applications in the fields of energy, safety and other sectors is the major focus area of IPTIF.

Following the successful funding of over 25 technology development projects from both academic institutions and startups under the 1st call for proposals under the IMPACT program, IPTIF is now launching **IMPACT 2.0** focused mainly on technology & product startups.

II. About IMPACT 2.0 :

Proposals are invited from **Academic & Research institutions (Faculties from Academic & Research Institutions planning to register a startup in next 3-months)** and **DPIIT recognized Startups** across India for **prototyping, testing, validation, scale-up, field testing and pre-commercialization** of technology /product development in the field of **Intelligent Collaborative Systems (ICS)** with application to **Energy, Safety, Healthcare, Automotives, Agriculture, Defense and any other relevant domains of national importance** to the 2nd call under the **IMPACT** program of IPTIF.

IMPACT 2.0 is specially designed to attract and fund startups developing and scaling impactful products and technologies in the above domains. The funding support is available right from prototype stage till market introduction stage and beyond. IMPACT 2.0 is designed as an equity-based funding program for **DPIIT recognized startups and to-be-startups from academic and research institutions.**

III. Scope of IMPACT 2.0

Proposals focused on indigenous technology / product development are invited under the below **three** categories

a. Category 1: Prototype development, testing and early-stage validation

Applicants: Early Stage Startups and Faculties from Academic & Research Institutions planning to register a startup in next 3-months

Entry TRL: TRL-3 or above

End TRL: TRL- 4-6 (A design-iterated prototype with critical technology components and Bill of Materials (BoM) frozen & undergone limited field testing under real/simulated working environment and ready for applicable safety/quality regulatory certifications)

Funding: Up to **INR 30 Lakhs** against Equity

b. Category 2: Field Validation, Certification and Pilot Market Launch

Applicants: Mid-Stage Startups

Entry TRL: TRL- 4 & above

End TRL: \geq **TRL-7** (A robust product with frozen DFM with extensive field validation, certification and product performance data from real end-user settings along with all applicable regulatory approvals for scale-up manufacturing and market launch)

Funding: Up to **INR 50 Lakhs** against Equity

c. Category 3: Scale-up and Pre-commercialization

Applicants: Late-Stage Startups

Entry TRL: \geq **TRL-7** - Product is market-launched with initial revenue from sales for at least 1 year

End TRL: **TRL- 8/9 - Pre-commercialization** (Scale up manufacturing and enhanced market penetration and revenue from sales)

Funding: Up to **INR 100 Lakhs** against Equity or Royalty on sales

IV. Duration of support

Project duration to be maximum **24 months** & Funding support will be based on availability of Funds from NM - ICPS, Department of Science and Technology

V. Areas supported under this call

Proposals are invited for validation and market advancement of ICS technologies with applications to **energy, safety & other domains**

A. Intelligent Collaborative Systems (ICS) for Energy

ICS for Energy creation, Efficiency Enhancement, Grid Integration & Control, Distribution, Transportation, Storage and Conversion

B. Intelligent Collaborative Systems (ICS) for Safety

ICS based Autonomous Systems for Road Safety & heterogeneous traffic; ICS for Predictive health Monitoring of Roads, Bridges, Rails, Dams & public transport systems; Autonomous intervention class systems for railway networks & subsystems; Safety systems for connected and Autonomous vehicle

C. Intelligent Collaborative Systems (ICS) for other domains

ICS based technology solutions addressing challenges in other domains, including but not limited to, Automotives, Defense, Agriculture, Healthcare and any other domains of national importance

VI. Eligibility

- Proposals from Academic & R&D Institutions will be considered only with an undertaking of registering a startup within 3 months of receiving the funding support
- Indian Startups registered under Indian Companies Act 2013 and registered with Startup India and having a valid DPIIT registration
- Minimum 51% of the shares of the Company should be held by Indian Citizens holding Indian passport [Indian Citizens do not include Person of Indian Origin (PIO) and Overseas Citizenship of India (OCI) holders]
- Minimum entry and endpoint TRLs to be met for all categories
- For Category 2 & Category 3, startups who have received prior equity-linked funding from Institutions, Angel Investors or VCs will be preferred
- For Category-3, revenue from sales of market-launched products is a mandatory requirement. A mix of Equity and Royalty on annual sales shall be considered for Category 3 on a case-to-case basis.

VII. Funding Guidelines

- Funding support in all cases will be against equity (and/or royalty in Category-3) into IPTIF in Startups. Equity percentage will be decided based on the funding amount, stage of the startup and / or based on startup valuation report from registered valuer
- In case of Academic applicants leading to startup, equity agreed upon to IPTIF should be issued during the incorporation of the startups. Funds received in Academic Institution Accounts have to be transferred to the startup's project specific bank account.
- Flexibility is allowed in the budget break-up within the Recurring and Non-recurring head on a case-to-case basis with approval from the Technical and Finance committees
- Recurring budget heads generally includes Human Resource, Consumables, Outsourcing, Travel, Contingency and Patenting cost

- Non-recurring budget head includes any capital expenditure. **It is discouraged to propose capital assets more than 10% of the total funding in case of Category 1 & 2. Higher non-recurring budgets can be considered in Category 3, if deemed essential.** In all cases only an **approved list of equipment** by the technical expert committee will be supported under the Non-Recurring budget.
- Detailed guidelines will be provided in the Impact Program Agreement (IPA) to be signed for the funding

VIII. Acknowledgement of Funding support

Acknowledge the assistance received from IPTIF during product development or marketing the resultant product, publishing or presentation of any manner at all fora.

IX. Proposal Submission Guidelines

- Applications to be submitted online on the below link [IMPACT 2.0 Program - 2nd Call for Proposals - Forms](#) on or **before 28th January 2025, 11.59 PM IST** **(Proposals in any other format, including uploading company pick deck is discouraged and will be rejected).**
- Project Proposal Presentation template is downloadable here [Proposal Format IMPACT 2.0.pptx - Google Slides](#) (Download and fill in the proposal format and save as .pdf file (Max 10 MB) for uploading in the application form. Please name the file **Applicant Name_Proposal**)
- Undertaking/Authorization from Competent authority of the company [Authorization Letter Undertaking - IMPACT program](#) (To be uploaded as .pdf file on Institution/company letterhead with signature and seal of the Competent of the company/Institution)

Please prepare the below documents in .pdf format to be uploaded along with application:

1. KYC of Individual Applicant (**Copy of Aadhar/Passport/DL**) .pdf file Max 10MB
2. Company Documents (Merged .pdf file (Max 10 MB) of Certificate of Incorporation, Startup Certification, Shareholding certificate + any other relevant document)
3. CV of the Individual Project Investigator/Collaborator- Max 3 pages- .pdf file Max 10 MB
4. Project Proposal PPT (in the Prescribed Format, .pdf file, Max 10 MB)
5. Additional Background Information about the Company, Product/Technology or Data in support of TRLs claimed by the Applicant (.pdf file, Max 10 MB)
6. Details of Ongoing/Completed projects/Funding support on the proposed technology/product with support from other Funding agencies/ Institutional

Investors / Angel Investments / VC Investments (.pdf file of less than 10 MB size
(Please include a Table with Title of the project /Technology, Funder details,
Total Funding, Date of funding, Status (ongoing/Completed) File name:
Company name_List of funding)

7. Undertaking / Authorization Letter from Competent Authority (.pdf file, Max 10 MB)
8. Video of the product or Presentation Video, if any (Max 1 GB)

X. Tentative Schedule for the Proposal evaluation

Call opens on: 14th January 2025

Proposal Submission Deadline: 28th January, 2025

Screening and Shortlisting of Proposals: 5th February, 2025

Presentation to Technical Expert Committee: 10th- 20th February 2025

Negotiations and Announcement of Results: 25th February, 2025

Due-diligence, Signing of Agreements and Funding - 20th March 2025

XI. Contact Details

Please write to rnd@iptif.tech with a copy to office@iptif.tech for any queries related to the application process

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