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Dr. Vinod Kumar
Director, Promotion Directorate
IN-SPACE

Sub: IN-SPACE Seed Fund Scheme Call for Proposals: Announcement of Opportunities in Urban Development and Disaster Management using Space Technology

Dear Innovators and Researchers

Greetings from IN-SPACE!!!

The Indian National Space Promotion and Authorization Centre (IN-SPACE) has been formed under department of space (DOS), to promote, enable, authorize and supervise non-government entities (NGE's) to undertake space activities. As mandated, IN-SPACE would like to promote the excitement and benefits of space technology applications and explorations to common man i.e., अन्त्योदय |

As mandated, IN-SPACE in its endeavor to develop private space ecosystem in the country is pleased to announce exciting opportunities in the fields of Urban Development and Disaster Management using cutting-edge Space Technology. The Seed Fund Scheme is a pioneering program of IN-SPACE, that seeks to harness the power of space technology under various sectors.

At IN-SPACE, we are committed to promote and work with space startups that share our vision of using technology to solve the challenges faced by common man. We believe that satellite data, geospatial analysis, and remote sensing technology hold the key to solving complex urban issues and enhancing disaster preparedness. Hence, in this announcement of opportunities we have combined urban development and disaster management, please apply **separately** for each sector. We will provide the necessary resources, mentorship, and grant-in-aid to your startup develop and scale your solutions

The detailed guidelines for the seed fund scheme are announced vide *IN-SPACE/PD/SeedFund02 dated March 14, 2023 (refer annexure I for details)*. These guidelines are also available at IN-SPACE digital platform.

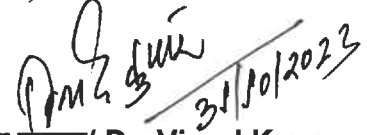


If you have an innovative idea or project related to urban development or disaster management using space technology, we encourage you to participate. To apply for this seed fund scheme online, please visit our website at www.inspace.gov.in and submit separate proposal for urban development and disaster management.

Some areas of opportunity in these sectors for space startups along with application submission, evaluation criteria etc. are provided in the annexure -II.

We look forward to your applications with innovative ideas that uses space technology to drive progress and improve the quality of life for people and communities around the world.

The last date to receive completed applications is **November 30, 2023**.


31/10/2023

डॉ. विनोद कुमार/ Dr. Vinod Kumar
निदेशक, संवर्धन निदेशालय/ Director, Promotion Directorate



ANNEXURE - I



डॉ. विनोद कुमार,
निदेशक, संवर्धन निदेशालय,
इन-स्पेस

Dr. Vinod Kumar
Director, Promotion Directorate
IN-SPACE

Sub: Announcement of IN-SPACE Seed Fund Scheme for Innovation in India

Dear Sir/Madam,

Greetings from IN-SPACE!!!

The Indian National Space Promotion and Authorization Centre (IN-SPACE) has been formed under department of space (DOS), to promote, enable, authorize and supervise non-government entities (NGE's) to undertake space activities. As mandated, IN-SPACE would like to promote the excitement and benefits of space applications and explorations to common man i.e., अन्त्योदय |

IN-SPACE in its endeavor to develop private space ecosystem in the country is pleased to announce a seed fund scheme aimed at promoting space technology. This scheme is designed to support space start-ups, those aims to develop innovative space products and services that can improve the quality of life of people and communities in India and around the world.

Eligible applicants include early-stage start-ups with innovative ideas and projects that use space technology to address up-stream/ mid-stream and down-stream challenges in the Space Sector.

The seed fund will provide financial support to selected applicants to help them bring their ideas to life and get their projects off the ground. This support will include access to **funding, mentorship, training, and networking opportunities.**

IN-SPACE will announce sector specific opportunities periodically. We are looking for projects that demonstrate a strong understanding of the challenges in the sector and a clear vision for how space technology can be used to address these challenges. Ideal applicants will have a clear business plan, a well-defined target market, and a detailed implementation strategy.

Please keep visiting IN-SPACE digital platform www.inspace.gov.in for more information. We look forward to receiving your applications and supporting innovative projects that use space technology to drive progress of nation.

The detailed guidelines for the scheme are provided in the annexure.



Dr. Vinod Kumar
14/03/2023

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निदेशक, संवर्धन निदेशालय/ Director, Promotion Directorate



Indian National Space Promotion and Authorization Centre



IN-SPACe/PD/Seed Fund/02

14-03-2023

Annexure

Guidelines for IN-SPACe Seed Fund Scheme for Indian Space Start Ups



भारत सरकार, भारतीय राष्ट्रीय अंतरिक्ष संवर्धन और प्राधिकरण केंद्र
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Government of India, Indian National Space Promotion and
Authorization Centre

Headquarter, Bopal Ahmedabad -380058

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Indian National Space Promotion and Authorization Centre



Guidelines for IN-SPACe Seed Fund Scheme for Indian Space Start ups

1. Introduction

As a part of space sector reforms, Indian National Space Promotion and Authorization Centre (IN-SPACe) has been setup vide Gazette notification dated 02-10-2021, as an autonomous agency in the Department of Space, to promote, enable, authorize and supervise the non-Government entities in space sector. To fulfill its mandate IN-SPACe board has approved the “IN-SPACe Seed Fund Scheme for Indian Space Start-ups” to promote space start-ups in the country.

During the initial stages a start-up faces funds crunch, as financial institutions or commercial banks do not come forward due to lack of clarity on the future prospects. In order to overcome this, IN-SPACe plans to provide initial financial assistance to few Indian space start-ups that have novel concept. This scheme will enable space start-ups to demonstrate their novel idea and move to next level, where they can seek loans from commercial banks or financial institutions or funding from investors. To be eligible for seed funding, start-ups should meet the criteria defined in this document.

The scheme shall be administered by the Promotion Directorate of IN-SPACe. The budgetary support for the said scheme is provided in the IN-SPACe budget, for the year 2023-24.

2. Objectives of the Scheme

The core objectives of the scheme are:

- i. to promote use of space technology by space start-ups in India
- ii. to facilitate new and innovative technologies development in the space sector
- iii. to create a framework to engage with space start-ups
- iv. to encourage a culture of technology co-creation in space Sector

3. Eligibility

The eligibility criteria for a start-up to apply under the “IN-SPACe Seed Fund Scheme for Indian Space Start-ups” shall be as follows:

- i. Only Department for Promotion of Industry and Internal Trade (DPIIT) registered start-ups are eligible to apply.
- ii. Start-up must possess an innovative business idea to develop and demonstrate a



Indian National Space Promotion and Authorization Centre



product or a service with market fit in space domain. The product should have viability for commercialization with scope of scaling.

- iii. Start-up should be using technology as the core in its product or service.
- iv. Shareholding in the startup by Indians (employees, promoters and angel investors) should be at least 80% and company should not have gone through a funding round. However, investment from venture capitalist is permitted.
- v. Promoters' and angel investors investment in the start-up at the time of application must at least match the grant requested.
- vi. Start-up should not have received more than Rs 50 lakh of monetary support under any other Central or State Government schemes. This does not include prize money from competitions and grand challenges, subsidized working space, access to labs, or access to prototype facility.
- vii. Any additional criteria as may be decided by IN-SPACe.

4. Nature of Financial Assistance

- i. A grant of up to Rs. 1,00,00,000.00 (Rupees One Crore only) would be provided to selected start-ups on milestone-basis, in three or more instalments.
- ii. The exact quantum of grant and instalments for each start-up shall be decided by the Experts Committee (EC) based on the progress of the project.
- iii. Instalments shall be released to start-up upon submission of proof of achievement of milestones as decided by EC.
- iv. The quantum off first instalment may be up to 40% of total approved commitment.
- v. The grant should be utilized fully by the start-up within a period of three years from the date of receipt of the first instalment of the assistance.
- vi. The start-up receiving grant under this scheme will be required to maintain proper accounts and submit fund utilization certificate, which shall be subject to verification/ audit by IN-SPACe or IN-SPACe appointed agency.
- vii. Start-up shall submit final report and audited fund utilization certificate at the end of the project.
- viii. The IPR generated under the program shall be owned by start-up.

5. Application Submission and Selection Criteria

- i. "Announcement of opportunities" for the seed fund scheme will be made from



Indian National Space Promotion and Authorization Centre



time to time by IN-SPACe on IN-SPACe Digital Platform (IDP) viz. www.inspace.gov.in along with timeline for application submission and processing etc.

- ii. Please note that the application will be accepted through IDP only.
- iii. An EC will be constituted by the Chairman IN-SPACe, which will be responsible for the evaluation, selection, execution and monitoring of the **IN-SPACe Seed Fund Scheme for Indian Space Start-ups**. EC shall consist of members from IN-SPACe Board, IN-SPACe, Senior Government officials, industry and venture capitalists.
- iv. The EC shall evaluate the innovation and novelty of the proposal as per following broad guidelines:
 - a. The proposal should have potential to meet future or existing needs of society and Indian space sector
 - b. Development and commercialization of a new product/ process/ application through indigenous technology
 - c. Significant and quantifiable improvements in the existing product/ process/ application
 - d. Potential to scale up
- v. Progress of the proposals selected by EC shall be further reviewed and monitored by Project Facilitation and Monitoring Committee (PFMC). PFMC shall consist of IN-SPACe Directors, Joint Secretary and Deputy Directors and senior scientists from ISRO.



6. Monitoring & Evaluation

- i. PFMC will review the progress periodically.
- ii. The start-up will provide the reports as may be directed by the PFMC after evaluation.
- iii. In case of poor performance of any selected start-up, PFMC may decide to discontinue seed fund support.

NB: In case of any dispute the decision of IN-SPACe board shall be final and binding.

7. Expected Outcome

Fostering innovation and technology development in space sector by engaging Indian start-ups.



ANNEXURE - II
**Indian National Space Promotion
and Authorization Centre**



IN-SPACe/PD/SeedFund/04

31/10/2023

**IN-SPACe Seed Fund Scheme:
Announcement of Opportunities in Urban Development,
and Disaster Management using Space Technology**

October 2023

भारत सरकार, भारतीय राष्ट्रीय अंतरिक्ष संवर्धन और प्राधिकरण केंद्र
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**Government of India, Indian National Space Promotion and
Authorization Centre**

Headquarter, Bopal Ahmedabad -380058

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1 Introduction

The role of the Space sector is very important in overall development of national economy and there is a need to give special thrust to increase the space activity capabilities with participation of private industries. To harness the huge untapped potential and to enable seamless participation from private players in India's space sector, the Indian National Space Promotion and Authorization Centre (IN-SPACE) was constituted on 24th June, 2020. IN-SPACE, is responsible to promote, enable authorize and supervise space activities of the Non-Government Entities (NGEs). As mandated, IN-SPACE would like to promote the use of space technology for the benefit of common man i.e., अन्त्योदय |

By leveraging space technology for societal and economic benefits, India is poised to shape the trajectory of the future, paving the way for an 'AatmaNirbhar' Bharat. This scheme is designed to support Indian space start-ups, those aims to develop innovative space products and services, that can improve the quality of life of people and communities in India and around the world.

IN-SPACE in collaboration with National Remote Sensing Centre (NRSC), Space Application Sector (SAC) is pleased to *announce exciting opportunities for NGE's to innovate in the following sectors, using space technology.*

- Urban Development and
- Disaster Management

This opportunity will enable start-ups to demonstrate the novel idea and graduate to the next level.

2 Purpose of Present Announcement of Opportunities

In this call for proposals, IN-SPACE announces the opportunities for Indian space start-ups with an ingenious concept to promote use of space technology in Urban Development, and Disaster Management.

2.1 Suggested list of areas

The tentative list of the areas, but not limited to, in the proposed sectors are:



a) Urban Development

Domain	Opportunities
Urban Planning, Monitoring and Infrastructure Management	Utilizing satellite data for the planning, monitoring, maintenance and management of urban infrastructure, including roads, bridges, and utility networks, Development of 3D City models, terrain modelling, Development of Building Information Model, Traffic Management and Transportation, Environment monitoring and applications, Mapping of Heat Island, Vegetation, flood, blue and green infrastructure, utility, building height etc., Integration of space technology for smart city infrastructure, such as utility monitoring, waste management, and energy distribution
Telecommunication, Navigation and Broadband Connectivity	Urban Broadband and 5-G/6-G coverage through satellite-based technologies in underserved and remote urban areas, Enhancing emergency communication and disaster response using satellite based technologies, Survey map, location-based services and application
Water Resources Management	Monitoring and managing urban water resources, including water quality assessment, flood risk mapping, and groundwater management using satellite data. Remote sensing for efficient water distribution and leak detection in urban water supply systems. River bank and basin management
Energy Efficiency	Using satellite imagery and data to assess urban energy consumption, identify energy-efficient practices, and promote renewable energy solutions. Integration of satellite-based weather forecasting for optimizing energy generation and distribution.
Climate and weather monitoring	Weather forecasting, climate monitoring and decision-making
Disaster Risk Reduction	Using satellite data for disaster risk assessment, early warning systems, and post-disaster damage assessment in urban areas,



	Developing satellite-based systems for urban search and rescue operations during disasters.
Public Health and Healthcare	Tracking disease outbreaks and monitoring urban health indicators using satellite data, Facilitating telemedicine and remote health services in urban and underserved areas through satellite communication.

b) Disaster Management

Domain	Opportunities
Geographical Information System (GIS)	Integration of satellite imagery and GIS technologies to create detailed disaster maps and support decision-making by identifying high-risk areas and vulnerable populations. Real-time GIS platforms for tracking disaster-related data and resources.
Early Warning and Monitoring Systems	Development of satellite-based early warning systems for various natural disasters, including hurricanes, landslides, tsunamis, and earthquake detection and warning. Advancements in weather forecasting using satellite data to predict extreme weather events and assess their impact.
Insurance and Risk Assessment	Insurance and Risk Assessment, Agricultural Disaster Management, Infrastructure Damage Assessment, Environmental Impact Assessment, Public Awareness and Education Vulnerability Assessment
Communication and Navigation Systems	Enhancement of satellite-based communication systems to ensure continuous connectivity during and after disasters, enabling better coordination among response teams. Development of navigation and geolocation systems to guide first responders and affected populations to safety, Search and rescue systems applications
Climate change monitoring	Satellite-based monitoring of climate change indicators, such as sea-level rise, temperature changes, and greenhouse gas emissions, to predict and mitigate the impact of long-term climate-related disasters.
Search and Rescue Operations	Development of satellite technology for improving search and rescue operations by providing real-time imagery and data to locate and assist



	affected individuals. Enhanced satellite-based tracking of missing persons in disaster-stricken areas.
Spaceborne Sensors and Instruments	Research and development of specialized sensors and instruments for detecting specific disaster-related parameters, such as pollutants, radiation, and seismic activity. Miniaturization and cost reduction of satellite payloads to enable more frequent and cost-effective missions.

The following support shall be extended under each sector to the selected start-ups

- 1 Seed funds as given in IN-SPACE Seed Fund Scheme, for transforming an original idea into a prototype using space technology
- 2 ISRO facility support including experimental EO data for validation of the concept
- 3 Mentorship support for the development of the concept
- 4 Access to the data algorithm as transfer of technology from the Department of Space

3 Proposal Submission and Eligibility Criteria

The application for the grant of seed fund scheme should be made, in the prescribed form, available on IN-SPACE Digital Platform (IDP) viz. www.inspace.gov.in. Please note that applications will be accepted through IDP only. Please refer **IN-SPACE seed fund scheme for Indian space start-ups**, for eligibility criteria, nature of financial assistance etc., before applying. **The last date for proposal submission is November 30, 2023.**

Applicants are advised to submit the proposals as per the prescribed format, incomplete proposals or proposals not as per the format shall be summarily rejected.

4 Selection Criteria

An Expert Committee (EC) constituted by the Chairman IN-SPACE, consisting of the members from IN-SPACE Board, IN-SPACE officials, Senior Government officials, industry, and venture capitalists shall evaluate and recommend the proposals for seed fund. The broad evaluation guidelines are given below:

- a) The proposal should have the potential to meet the future or existing needs existing community and the Indian space sector with socio-economic benefits.



- b) Development and commercialization of a new product/ process/ application through **indigenous** technology and innovation.
- c) Significant and quantifiable **improvements** in the existing product/ process/ application.
- d) The proposal should have the potential for scale-up.

The proposals for other supports shall be evaluated and recommended by an internal committee. The successful applicants need to submit the prescribed fee for obtaining support in terms of facilities, EO data, mentorship and transfer of technology.

The proposals recommended for the transfer of technology need to pay the required technology transfer charges, as per existing guidelines.

5 Monitoring & Evaluation

The progress of the proposals selected against this AO shall be monitored by the Project Facilitation and Monitoring Committee (PFMC). PFMC shall consist of IN-SPACE Directors, Joint Secretary, Deputy Directors, and senior scientists.

- a) PFMC will review the progress periodically.
- b) The start-up will provide the reports as may be directed by the PFMC after evaluation.
- c) In case of poor performance of any selected start-up, PFMC may decide to discontinue seed fund and other support.

NB: In case of any dispute the decision of IN-SPACE board shall be final and binding.

