



Invitation For EOI

This Expression of interest (EOI) is to invite proposals for Design of DTP (Drone Technology Park), to be developed at IIT Delhi Sonipat Campus. IHFC envisions DTP as a state-of-the-art drone facility for design, research, manufacturing, testing, standardization, certification, and training on Drones. The objectives of the DTP and EOI are explained in the document. The applicant is to propose the design of the DTP layout to IHFC for an open area of 200 x 200 m² (approx.) out of a total 40 acres gated area with boundary wall.

EOI No.	IHFC/EOI /DTP/022024-I
Opening Date	26 February 2024
Approx. Budget (Design)	~ 25 lacs
Current Scope	Only “Design” of Drone Tech Park
Closing date of EOI	20 March 2024
Duration of EOI	24 days
Phase -1 Budget for Development (Execution)	INR 250- 500 Lacs



**I-Hub Foundation for Cobotics
Indian Institute of Technology
Hauz Khas, New Delhi-110 016
Contact: 011-2654 8493, 7042654553**

Applicants are requested to send their proposal on dtp@ihfc.co.in along with company profile and details as desired in Annexure below.



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1. About IHFC

IHFC (I-Hub Foundation for Cobotics) is the Technology Innovation Hub (TIH) of IIT Delhi, established under the mandate of the Govt. of India through the Department of Science and Technology (Ministry of Science and Technology), under its NM-ICPS (National Mission on Interdisciplinary Cyber-Physical Systems) mission for promoting research and development, incubating/promoting individuals/start-ups, entrepreneurs, organizations and corporations individually or in collaboration with faculty and other parties for harnessing the new wave of technological innovation in India. It has been incorporated as a Section 8 company, registered under The Companies Act, 2013 having registered office at Room No. MZ-122 IIT Hauz Khas, Delhi, India-110016.

2. Objectives of EoI

This online EOI invites applications and commercial proposals from eligible and experienced partners to design the Drone Technology Park (DTP) on the IIT Delhi Sonapat campus. DTP is a project envisioned by IHFC to develop a one-of-a-kind facility to set up a drone manufacturing, testing, training, and certification facility.

This EOI is aiming to Design the complete layout for DTP in one go. But Execution and development will happen in different phases wherein the Phase -I approx. budget for development will be INR 250-500 Lacs. The development for Phase -II will open up post successful development of the phase -I.

The EOI aims to build a vibrant ecosystem for drone manufacturing in India and decrease dependability on imports. The ecosystem for drones includes manufacturing parts of drones and extended research in drone components like BLDC motors, Propellers, Sensors, Controllers and battery packs etc.

This EOI elaborates on various points like scope of work, eligibility, and duration, among others, for the ease of applicants understanding and applying against this EOI accordingly.

3. DTP Objectives

DTP shall be a multi-purpose facility for enhancing the research and development capabilities in technologies associated with UAVs (Unmanned Ariel Vehicles), Drones, Testing Simulation, Training, R&D, Service, etc. and related areas to provide best-in-class infrastructure for the same.

It is planned to be developed as an initiative to enable India to become a global hub of technology, software, and related services for drones and UAVs. As we progress, the country will also need the next generation of workforce to be ready to support, maintain and operate such technology and systems. DTP will offer a Green Zone for flying all types of drones.

DTP Core objectives are:

- A state-of-the-art facility for UAVs/Drone designing, manufacturing.
- A platform to test UAV/drones.
- A facility for Entrepreneurs in Drones (offering incubation, research/office space etc.).



- Certification of UAV/Drones.
- Training through workshops and flying competitions.
- RPTO (Remote Pilot Training Organization) capability.
- Research and Development.

4. DTP Setup

DTP is located near Sonipat and is an extended facility of IIT Delhi. This is around 50 - 55 km from IIT's main Delhi campus. DTP is proposed to have the following facilities –

➤ **Testing facilities:**

- Temperature testing
- Water ingress
- Vibration beds
- Thrust beds
- High Altitude Low-Temperature testing
- Wind Tunnels
- Endurance Testing
- Battery charging Lab etc.

➤ **Capability Focus of DTP**

- Simulation software like Catia, Ansys or Solidworks etc.
- 3D printing.
- Day and Night flying with illuminated Runways/Helipad.
- Outdoor /Indoor Flying zone.
- Drone Flying Competitions / Challenges.
- Drone helipads/landing pads for soft landing.
- Drone Component Testing.
- Battery charging and testing stations.
- Meeting rooms near the Testing field etc.

5. Scope of Work

The applicant will mainly focus on the facility needs and objectives of the DTP while submitting their proposals. A detailed plan of layout, along with related drawings and consultancy to develop DTP, is expected from each proposal. In line with its objectives defined above, the scope of work broadly covers the following:

- Layout drawings of the facility.
- The electrical and infrastructure development plan covers air conditioning, lighting, security, etc. Water drainage and sewage plan.
- Fencing of DTP area out of the total area.
- Space allocation for each facility, indoor or outdoor.
- Drawings for significant Civil and Electrical budgets and estimates.
- Presentations to IHFC for approval and making changes in layout plan wherever desired.
- Presentation and justification of plan and budgeting of each facility for acceptance by IHFC.



If necessary, visit to DTP space/facility can be made on request to IHFC and planned on either Tuesday or Friday from 10:00 hrs to 13:00 hrs (between 1 march -20th March)

6. Eligibility

- Applicant should have a successful track record of developing similar facilities in the last 3-5 years in UAV, drone and anti-drone or similar systems.
- Should have expertise in the design, execution, and development of civil and electrical infrastructure.
- Should have a clear understanding of UAV and its ecosystem, UTM (Unmanned vehicle Traffic Management), Long Endurance Technology, Testing and Certification of Standards.
- Should have an idea of flying and operational training and competitions.
- Should have experience in developing Drone/UAV testing/flying facilities.
- Understanding of the infrastructure required for designing, manufacturing, simulating, testing and manufacturing drones and UAV for sports and drone racing league events, manufacturing of drone components, and building new solutions and business models for drone application

Note: The applicant/company can hire drone experts wherever required, but they must disclose to IHFC their proposal and expert contribution to the proposal and their needs.

7. Payment Terms

- 10% Advance with PO of the Final Negotiated amount.
- 25% Post-submission of the First plan and first presentation.
- 25% Post 2nd review including changes incorporation from 1st review.
- 15% Post-final plan submission to IHFC or the Execution Party (there can be multiple iterations before making a final plan).
- 25% Balance while handing over the drawings to the Contractor company and after handshaking.

8. Selection Process

The proposals shall be selected on the basis of IHFC policies, rules, procedures and statutes and in conformity with the best practices through an objective selection procedure in line with the vision of IHFC w.r.t execution of DTP. IHFC reserves the right to begin its assessment of any received Expression of Interest immediately after its receipt, even before the closure date. IHFC reserves the right to start evaluation of submitted proposal even before the closer date of this EOI to save time. The proposals will be evaluated by the committee members formed by the IHFC.



9. Annexure

1	Name of the Institute/Company	:	ABC Pvt Limited
2	Category	:	Start-up/Company/ Industry
3	Complete Postal Address	:	
4	Profile of the Company/Institute/Industry	:	
5	Any previous project done similar to DTP	:	If Yes / Details not more than 100 words
6	Collaborative partner, if any. If yes, please provide partner's name and details.	:	Not more than 100 words
7	Any other contribution you want to make apart from the proposal	:	Suggestions/ Feedback
8	Email id Mobile phone of applicant SPOC	:	XXXX@XMAIL.com +91 (** * * * *)
9	Remarks, if any	:	Not more than 100 words