

## Tender Notice for Procurement of Drones for Govt. ITI Thana Bhawan-2, Shamli

**Tender No.:** GITI/THANABHAWAN/1/2024

**Date:** 25 October 2024

**Organization:** Govt. ITI Thana Bhawan-2, Shamli

**Tender Closing Date:** 5 November 2024

### 1. Introduction

Our organization invites eligible companies to participate in this tender for the supply of **2 drones** to be deployed for

Govt. ITI Thana Bhawan-2, Shamli the drones must meet the specific requirements outlined below to support operations in agriculture, specifically for auto spray and seed spreading applications.

### 2. Drone Specifications

Companies are required to submit bids that meet or exceed the following specifications:

#### A. Physical Characteristics

1. **Role of RPA:** Auto Spray & Seed Spreading.
2. **Maximum Take-Off Weight:** 24-30 kg.
3. **Performance Characteristics:**
  - o **Endurance per flight:** 10-15 minutes with payload.
  - o **Minimum Operating Altitude:** 3-5 m AGL.
  - o **Maximum Operating Altitude:** 10-15 m AGL.
  - o **Maximum Operational Speed:** 10 m/s.
  - o **Maximum Separation Altitude:** 120 m AGL (as per DGCA guidelines).

#### B. Operational Characteristics

1. **Landing:** Vertical Take-Off and Landing (VTOL).
2. **Flight Modes:**
  - o Auto.
  - o Semi-Auto.
3. **Propulsion System:** Electric propulsion.
4. **Fail-Safe (FS) Features:**
  - o Return-to-home on prolonged communication failure.
  - o Auto-land for low battery (25% battery capacity).
  - o Hover mode on temporary signal loss.
5. **Night Vision Capability:** Yes, with IR/IR on headlights.
6. **Anti-collision Sensor:** Yes, with an obstacle detection range of 10 m (360 degrees).
7. **Packaging:** Standard casing for RPA and peripherals.
8. **Operating Temperature:** 0 to 50 °C.

#### C. Communication Link Characteristics

1. **Control Link (C-Link):** Transmit control commands from GCS to UAV.
2. **Data Link (D-Link):** Transmit telemetry data from UAV to GCS.

## D. Ground Control Station (GCS) Characteristics

1. **Hardware:**
  - Secured IP68.
  - Geographic map showing UAV location.
2. **Display:**
  - 7-inch or higher.
  - Night vision capable.
  - Support for all key parameters.
3. **Maps:** Digital & offline maps including UAV altitude.
4. **User Controls:**
  - Arm/disarm switch.
  - Flight mode switch.

## E. Other Specifications

1. **Power Backup:** Dual backup with GCS auto power source.
2. **Critical Alarms:** Visual/audio alerts for low battery, motor failure, etc.
3. **Compliance:** Must meet DGCA operational guidelines.
4. **Warranty:** Minimum of 12 months.

## 3. Eligibility Criteria

1. The bidder must be a registered entity capable of supplying drones as per the specifications listed above.
2. The bidder must have prior experience in supplying drones for similar purposes.
3. Compliance with DGCA guidelines is mandatory.

## 4. Submission Requirements

1. **Technical Proposal:** Outline the technical specifications of the proposed drones and evidence of compliance with the above requirements.
2. **Financial Proposal:** Include the total cost per drone, with a breakdown of costs including warranties and maintenance services.
3. **Documentation:**
  - Company registration certificate.
  - GST registration.
  - Previous work experience and references.
4. **Delivery Schedule:** Expected timeline for delivery post-order confirmation.

## 5. Evaluation Criteria

The bids will be evaluated based on:

- Compliance with technical specifications.
- Past experience and reputation.
- Financial proposal.
- Delivery timeline.
- Warranty and after-sales support.

## 6. Important Dates

- **Tender Release Date:** 25<sup>th</sup> October 2024
- **Bid Submission Deadline:** 5<sup>th</sup> November 2024
- **Bid Opening Date:** 26<sup>th</sup> October 2024
- **Result Release date:** 8<sup>th</sup> November 2024

## 7. Terms and Conditions

1. The organization reserves the right to accept or reject any bid, wholly or partially, without assigning any reason.
2. Late submissions will not be considered.
3. The successful bidder must adhere to all stipulated delivery and compliance requirements.
4. Warranty and support must be provided as specified.
5. These bids should be submitted by 5<sup>th</sup> of November positively with all the necessary documents.

**For any clarifications, please contact:**

Akash S. U  
Director  
gitithanabhawan2@gmail.com



**Director**

**Govt. Industrial Training Institute  
Thana Bhawan-2, Shamli**