

# Indian Institute of Technology Kanpur

## Department of Civil Engineering

### Tender for hiring UAV services

Enquiry No. : CE/GI/UAV01

Enquiry Date : 18.05.2018

Last Date : 08.06.2018 (Extended upto: 18.06.2018)

#### **Deliverables:**

Data type	Formats	Specification
Point Cloud	.las, .laz, .xyz, .ply	Georeferenced and real Textured 3D point cloud with at least 100 points per m <sup>2</sup>
Orthomosaic	.tif (Geotiff)	Resolution 3-4 cm/pixel
DSM	.tif (Geotiff)	Resolution 3-4 cm/pixel

#### **Area of the villages (Acc. to the Revenue records):**

1. Village 1- 293.63 Ha
2. Village 2- 243.67 Ha

### **ELIGIBILITY CRITERIA**

#### **General Criteria:**

1. The Bidder shall be Registered Company in India as per Indian Companies Act, 1956.
2. The Bidder shall have an experience in UAV/Drone industry for a minimum of 4 years in executing similar nature of works.
3. The Bidder shall hold valid PAN, GST Certificates. Copies of same to be submitted.
4. The Bidder should have not been black listed/defaulted by any of the Govt Department/Public sector enterprise. Self-Undertaking for the same to be submitted.

#### **Financial and Experience Criteria:**

1. Average Annual turnover for the successful bidder for the last 3 financial years that is 2015-16, 2016-17 and 2017-18 shall be minimum 50 Lacs. Copies of Balance sheet or Certificate from the CA to be submitted.
2. The Bidder shall have executed a minimum of 5 projects of similar nature as the scope of work, the cumulative area surveyed in these projects shall be minimum 100 Sq. Km. Copies of purchase order/completion certificates for the same to be submitted.
3. The Bidder shall have executed minimum of 3 projects of similar nature for the government organisations/PSUs. Copies of purchase order/completion certificates for the same to be submitted.

### **Technical Capabilities:**

1. The Bidder should own a PPK based fully autonomous UAV. Certificate from statutory Auditor/CA from OEM, copy of purchase invoice or lease agreement, should be attached.
2. The bidder should have the capability to cover an area of at least 50 sq. km per week. Suitable work order and work completion certificate with period of work commencement, should be attached.
3. Drone shall have the capability to cover area greater than 2 Sq. km. or 200 Hectares in single flight at 3 cm/pixel resolution or better.
4. Mapping Payload: 20 MP with 1” CMOS sensor or better
5. Absolute Accuracies achieved shall be as below:
  - a. Horizontal accuracy (X & Y Axes): 3-4 cm
  - b. Vertical accuracy (Z axis): 8-10 cm
6. The bidder should have permanently employed technical man power for UAV operational and data Processing. Certificate from Head or HR of the firm should be attached and PF details of the shown should be attached.

### **Terms and Conditions:**

- Offer should be made on for IIT Kanpur basis.
- Your quotation shall contain Authorization Letter.
- Quotation Validity : 30 days
- Delivery Period : 15 Days
- Delivery mode: Free at IIT Kanpur
- GST as per rules of IIT Kanpur
- The IIT Kanpur reserves the right to accept or reject any bid, in whole or in part and to avail or to suspend the bidding process and reject all bids at any time and without reason prior to award, without thereby incurring any liability to the affected Bidder or Bidders.

**Last date for submission of filled in tender document is 08.06.2018, 17:00 hours.** (Extended upto: 18.06.2018)

All queries should be addressed in writing to Aswani Kumar Munnangi, Civil Engineering Department, IIT Kanpur-208016, Email- [aswanikm@iitk.ac.in](mailto:aswanikm@iitk.ac.in). Telephone calls or personal visits are strictly banned and any attempt as such may lead to disqualification of the bidders.

Please send the quotations on below address:

Dr. Subhas Chandra Misra

WLE-115, Geoinformatics Laboratory

Department of Civil Engineering Engineering

Indian Institute of Technology Kanpur

Kanpur – 208016, India

Email: subhasm@iitk.ac.in