



International Centre for Free and Open Source Solutions

Swatantra,
South Pavilion, Sports Hub, Karyavattom,
Trivandrum - 695 581
Kerala, India.
Phone No: +91 471 2700013
Email: info@icfoss.in

NOTICE INVITING TENDER

UAV LiDAR Survey – Technopark Campus

Tender No: ICFOSS/174/2022-TC4(IT) Part(1) Dated 31/05/2025

Name of the Work	UAV LiDAR Survey – Technopark Campus
Location	Technopark Phase I & Phase III Campus, Trivandrum, Kerala
Total Area	250 Acres Approx.
Project Duration	20 Days from the date of award of contract
Date of Publishing	31/05/2025
Availability of Tender documents	Can be downloaded from the website http://icfoss.in up to 09/06/2025 03:00 PM
Last date & time of submission of bids	09/06/2025 at 04:00PM
Date & time of opening of bids	09/06/2025, 04:30PM
EMD (Earnest Money Deposit) Amount	1 % (rounded to the nearest rupees) of the total Quoted amount or Rs.1,500/- whichever is maximum.
Tender Fee	Rs. 400/-
Tender Validity	6 Months



All communications shall be addressed to the Secretary & Registrar, ICFOSS, Swatantra, South Pavilion, Sports Hub, Karyavattom, Trivandrum - 695 581 Kerala, India.

The bid documents and other details may be downloaded from the website <http://icfoss.in/tenders>. All bid documents along with EMD and Tender fee are to be submitted as **hard copy** and in the designated covers/envelops on the below address. The EMD amount and non-refundable Tender fee of Rs. 400.00/- shall be remitted only as Demand Draft separately in favour of **"ICFOSS"** and payable at Thiruvananthapuram. Bidder should ensure that Tender fees and EMD are remitted as separate transactions/DDs, such that EMD should be a separate DD and Tender Fee shall be separate DD. Combined remittance for Tender fee and EMD shall be treated as invalid transaction. Only manual submission shall be entertained. Late submissions will not be considered

Secretary & Registrar

Swatantra,
South Pavilion, Sports Hub,
Karyavattom, Trivandrum - 695 581
Kerala, India.
Phone No: +91 471 2700013
Email : info@icfoss.in

A handwritten signature in blue ink, appearing to read 'Bijumon'.

Procurement Officer
ICFOSS

Place: Trivandrum
Date: 31/05/2025

Note: - If the date of opening of bids happens to be a holiday; the actual date for the same will be the next working day. No separate intimation in this regard will be issued.



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TENDER DOCUMENT

Tender No: ICFOSS/174/2022-TC4(IT) Part(1) Dated 31/05/2025
(e-Procurement)

ICFOSS (International Centre for Free and Open Source Solutions) invites sealed tenders from eligible and qualified firms/organizations for conducting a **UAV LiDAR Survey** at Technopark Phase I & Phase III Campus, Trivandrum.

Scope of Work

- Conduct a high-resolution airborne LiDAR survey covering approximately 250 acres.
- Generate precise 3D geospatial data and topographic models suitable for detailed spatial analysis and planning.
- Ensure data quality meets professional surveying standards and geospatial accuracy.

Deliverables

The selected agency shall provide the following outputs:

1. **Raw LiDAR data** (LAS/LAZ format)
2. **Georeferenced classified point cloud data** with at least the following classes: ground, vegetation, buildings, and other man-made structures
3. **Digital Terrain Model (DTM)** of 10 centimeter resolution
4. **Digital Surface Model (DSM)** of 10 centimeter resolution



5. **Topographical Map** in the format of shapefiles and DWG files
6. **Orthorectified imagery**, if captured
7. Final deliverables should be compatible with a common GIS software (QGIS)

Technical Qualification Criteria

- **Registered Firm**
 - The bidder must be a registered firm or organization with valid **GST registration in Kerala**.
- **Prior execution of Government Projects with Advanced LiDAR Survey Capabilities**
 - Must have successfully completed **at least 3 Government-authorized projects** involving LiDAR-based topographic surveys.
 - Each project must cover a **minimum of 500 acres** and be valued at **₹2 Lakhs or more**.
 - Each project must include:
 - Data classification
 - DEM/DSM generation
 - Contour creation from LiDAR datasets
 - Supporting documents: Completion certificates, work orders, or client references.
- **Drone Operations & Regulatory Compliance**
 - **The bidder must handle all permissions and approvals** required for drone operations, including application to the regulatory bodies.
 - The firm must have **DGCA certified drone pilot(s)** with valid credentials.
 - Proof of valid drone pilot license(s) and past drone operations must be submitted.
- **Presence of Operational Office in Kerala** (*For Local Facilitation & Coordination*)
 - Bidders must have a **registered and functional office in Kerala**, with local technical manpower. This ensures efficient coordination, site access, data transfer, and communication with local stakeholders.
 - Proof of office address and infrastructure must be submitted (utility bills, registration documents, staff listing).
- **Minimum 3 Years of Experience in Similar LiDAR and Geo-Spatial Projects**
 - The firm must have **at least 3 years of experience** in LiDAR survey execution, post-processing, and GIS integration.



- Experience should be substantiated with **work orders, MoUs, or completion certificates.****Project Completion Capability**
- Bidders must be capable of **completing the project within 20 days** of the work order.
- **Preference for Startups**
 - **Startups registered in Kerala Startup Mission (KSUM)**, working in the field of LiDAR and geospatial technologies, are strongly encouraged to apply.
 - Preference will be given to eligible startups meeting all technical requirements.

Terms & Conditions

- **Submission of bids**

The Tender should be submitted with the following documents. The documents shall include the following:

- 1) Company registration details *
- 2) All supporting documents to satisfy the above criteria (In page 3 to 5) *
- 3) Copy of Permanent Account Number (PAN) *
- 4) Copy Of GST Registration Documents *
- 5) Signed Tender document with Tender form. *
- 6) Financial bid in format given in **Annexure I** (BOQ Template) *

- **Earnest Money Deposit (EMD)**

The Tender should submit an EMD amount of 1 % (rounded to the nearest rupees) of the total Quoted amount or Rs.1,500/- whichever is maximum. The EMD amount should only be remitted as Bank Drafts in favour of “**ICFOSS**” payable at Thiruvananthapuram and shall be enclosed with the bid.



Forfeiture of EMD

EMD of a tenderer shall be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender. Further, if the successful tenderer fails to furnish the required performance security within the specified period, its EMD shall be forfeited.

Refund of EMD

EMD furnished by all unsuccessful tenderer shall be returned to them without any interest whatsoever, at the earliest after expiry of the final tender validity period but not later than 30 days after conclusion of the contract. EMD of the successful tenderer shall be returned, without any interest whatsoever, after receipt of performance security from it as called for in the contract.

- **Tender Fee**

The Tender should submit an non-refundable Tender Fee of Rs.400/- . The Tender Fee should only be remitted as Bank Drafts in name of “**ICFOSS**” payable at Thiruvananthapuram and shall be enclosed with the bid.

- The supplier should avail their service with the same rate for a period of six months, against the purchase order.
- The data offered must be standard, proven product and already available in the market.
- The data offered must follow the required specifications
- Tender Documents shall be available only on the Internet and shall not be available for sales elsewhere.
- No price rise except Govt. levies will be allowed once order has been placed during the validity of the claim.
- Supplier will have to pay penalty on non-delivery after expiry of delivery date @ 1% of quoted price per week subject to maximum of 10%.
- Data should be submitted to the “The Director, ICFOSS, Swatantra, South Pavilion, Sports Hub, Karyavattom, Trivandrum - 695 581 Kerala, India”.
- If any data or any part thereof is lost or rendered defective during the hand over period, the supplier shall immediately arrange for the supply of the data or part thereof as the case may be.
- **Payment:** The payment shall be made against completion of the entire supplies. The complete payment shall only be made against successful checking of the data supplied. In



case of any defects the L1 bidder shall immediately arrange for the supply of the data or part thereof as the case may be, prior to the payment.

- **Quoted rate:** The quoted rates shall be **inclusive** of all taxes.

Note: ICFOSS holds the DSIR certificate which makes ICFOSS eligible for tax exemptions, Seller is responsible for cross checking the category codes and HSN numbers and apply appropriate exemptions

The Taxes may include (excise duty, sales tax, service tax, entry tax etc), duties, levies, freight, handling, loading, unloading, insurance premiums etc complete and shall remain firm throughout the contract period. No compensation will be paid in case of any upward revision in the statutory taxes and levies or introduction of new taxes and levies.

I / We hereby declare that I/We have read and understood the above instructions for the guidance of tenders.

Place :

Date :

Name, Signature and seal of Tenderer

Please submit the hardcopy of this document duly signed by the authorized signatory to the following address:

**Secretary & Registrar
ICFOSS
Swatantra,
South Pavilion, Sports Hub,
Karyavattom,
Trivandrum - 695 581
Kerala, India.**



TENDER FORM

To,
Secretary & Registrar
Swatantra,
South Pavilion, Sports Hub,
Karyavattom,
Trivandrum - 695 581
Kerala, India.

Dear Sir,

Sub: Bid form

Ref:

1. Having examined the conditions of tender contract, the receipt of which is hereby duly acknowledged. i/we undersigned, offer to supply all data and execute all works in conformity with tender specifications referred above and also to the said terms & conditions from the sum shown in the commercial bid(s) attached herewith and made part of this bid.
2. I / We undertake, if our Bid is accepted to complete delivery of all required data specified in the contract within 20 days calculated from the date of issue of your purchase order/LOI.
3. We understand that you are not bound to accept the lowest or any bid, you may receive.
4. I / We affirm that I / We have enclosed the acceptance of all terms and conditions and also all brochures detailing the technical specification of the items quoted by me/us.
5. I / We hereby confirm that all the items supplied are in proper standards format mentioned in the tender document and tested successfully.
6. The tender document for the works mentioned above have been obtained by me from the URL: <http://icfoss.in/tenders>, the official website of ICFOSS and I / we hereby certify that I / we have read the entire terms and conditions of the tender document, which shall form part of the contract agreement and I / we shall abide by the conditions / clauses contained therein.
7. My /our GST & PAN Numbers are as follows.
8. GST Registration Number.



9. PAN Number.

10. Dated/...../ 2025

11. Duly authorized to sign the bid for and on behalf of

12. Witness 1.

13. Signature

14. Witness 2.

15. Signature

ANNEXURE I (BOQ TEMPLATE)

Date:

Tender Inviting Authority: ICFOSS					
Name of Work: UAV LiDAR Survey – Technopark Campus					
Contract No: ICFOSS/174/2022-TC4(IT) Part(1) Dated 31/05/2025					
Bidder Name :					
<u>PRICE SCHEDULE</u> <u>(This BOQ template must not be modified/replaced by the bidder and the same should be submitted after filling)</u>					
Sl. No.	Item Description (as specified in Tender documents)	Quantity	Units	BASIC RATE Per Acre (inclusive of all Taxes)	TOTAL AMOUNT (inclusive of all Taxes)
1	UAV LiDAR Survey – Technopark Campus	250	Acres		
Grand Total (inclusive of all Taxes)					
Quoted Rate in Words					

Authorized Signature
(With Signature and Seal)

***Envelope should be marked with the heading ‘Tender for UAV LiDAR Survey – Technopark Campus’**