

TENDER NOTICE

**TUF /TENDR/1/2025
Mar 10, 2025**

The prospective bidders having registered with Income Tax, General Sales Tax, Provincial Sales Tax (if applicable) as well as with PPRA for E-Procurement on “e-Pak Acquisition and Disposal System (e-PADS), are invited to submit sealed tenders on the basis of Single Stage two envelop procedure, for the purchase of following Research Equipment according to details mentioned below. All E-bids must be submitted through E-PADS under the method by uploading PDF file for the Department of Electrical Engineering at The University of Faisalabad:-

Name of NRPU Project: Bio-inspired Unmanned Aerial Vehicle (UAV) Design for Deep Learning Based Monitoring, Assessment and Inspection of Civil infrastructures”

Particulars of Items	Quantity	Bid Security	Estimated Value	Date & Time	
				Closing	Opening
Drone (UAV) with multispectral camera system	One (1)	2% of Estimated Value of each item	1 Million	28-Mar-2025 At 11:00 am	28-Mar-2024 At 11:30 am
Differential Scanning Calorimeter (DSC)	One (1)		0.5 Million		

As per PPRA Rule 25(7), “The bidder shall download the bidding documents from the website of the authority and participate in the procurement process without paying any cost or fee.”

Tender Notice can be seen/ downloaded from PPRA website www.ppra.org.pk or from link <https://tuf.edu.pk/tenders>. This tender notice along with tender document has also been uploaded on E-PADS system.

Convener Tender Committee

Project No. TUF/NRPU/3-16789
The University of Faisalabad
Faisal Town, West Canal Road,
Faisalabad.
Contact # 0330-1980654

TUF /TENDR/1/2025

BID DOCUMENT

FOR

**PROCUREMENT OF. Drone (UAV) with multispectral
camera system and Differential Scanning Calorimeter (DSC)**

1. Introduction

The University of Faisalabad is a private institute imparting high quality higher education at undergraduate, graduate and postgraduate level.

2. Detail Specification

Detailed specifications and estimated quantity for required equipment is as under: -

Sr. No.	Item	Specification	Quantity	Estimated Value
1	Drone (UAV) with multispectral camera system	<p>1. Camera System:</p> <p>RGB Camera:</p> <ul style="list-style-type: none">• 20 MP, 4/3-inch CMOS sensor.• Effective pixels: 5280 × 3956.• FOV: 84°.• Aperture: f/2.8–f/11.• Video resolution: Up to 5.1K/50fps, 4K/120fps. <p>Multispectral Camera:</p> <ul style="list-style-type: none">• 5 lenses (Green, Red, Red Edge, Near-Infrared, Monochrome etc).• 4 multispectral bands (Green: 560 nm ± 16 nm, Red: 650 nm ± 16 nm, Red Edge: 730 nm ± 16 nm, NIR: 860 nm ± 26 nm).• Each band has a 5 MP sensor.• Allows NDVI and other vegetative indexes to be calculated. <p>2. Storage:</p> <ul style="list-style-type: none">• Internal Storage: 8 GB.• MicroSD Card Slot: Supports up to 512 GB. <p>3. Flight Time and Range:</p> <ul style="list-style-type: none">• Max Flight Time: Up to 43 minutes (in ideal conditions).• Max Transmission Range: Up to 15 km with O3+ transmission system. <p>4. Positioning and Sensors:</p> <ul style="list-style-type: none">• RTK Module: Supports real-time kinematic positioning for centimeter-level accuracy.• GNSS: GPS + Galileo + BeiDou.• Obstacle Sensing: Omnidirectional obstacle sensing (forward, backward, downward, upward, left, right).	1	1.Million

		5. Remote Controller: <ul style="list-style-type: none"> ●Controller Model: Integrated screen, 5.5-inch, 1080p ●Transmission System: O3+ (OcuSync 3.0) with low-latency HD video feed. 		
2	Differential Scanning Calorimeter (DSC)	DSC range: 0~±500mW Temperature range: Room temperature~600°C Heating rate: 0.1-80°C/min DSC sensitivity: 0.01mW Temperature repeatability: ±0.1°C DSC noise: 0.001mW DSC resolution: 0.001mW DSC accuracy: 0.01mW Temperature resolution: 0.1°C Warming up: Program control, parameters can be adjusted as needed Constant temperature: Program control, constant temperature time can be set arbitrarily Curve sweep: Warming scan Atmosphere control: Instrument automatic switching Gas flow: 0-200mL/min Gas pressure: 0.2MPa Display method: 24bit color 7-inch LCD touch screen display Data interface: Standard USB interface Parameter standard: Equipped with standard materials, with one-key calibration function, users can calibrate temperature and enthalpy by themselves Working power: AC 220V 50Hz or customized Power: 600W	1	0.5 Million

TERMS AND CONDITIONS

1. Bidders should provide the name of firm, complete postal address, Telephone No, Email address and web address (if any).
2. Bidders are required to upload their bids on EPADS systems as per laid down PPRA Procedure for single stage Two envelope method. Please note the documents shall be marked as “Financial Proposal” and “Technical Proposal
3. Bid security in shape of pay order/ CDR must be submitted at the address given in tender notice before closing date & time else tender will not be accepted and The bids without Earnest Money shall be rejected. Original pay order of Bid Security must reach before the closing date and time of tender otherwise the bid/s will be rejected. The of Pay Order/ Demand Draft shall be drawn in favor of “**The University of Faisalabad**”, which will be returned immediately after the completion of tendering process to the unsuccessful bidders and after satisfactory completion of delivery/supply to successful bidder (s) respectively.
4. The Purchaser will open all bids in the presence of available bidders ‘ representatives who choose to attend, at the time, on the date, Purchaser and at the place specified in the Tender Notice. The bidders ‘representatives who are present shall sign a register evidencing their attendance
5. Absence of bidder or their representative shall not impair the legality of the opening procedure.
6. Quoted rates will be evaluated as per our demand & terms and conditions. The Most advantageous Bid would be accepted.
7. Bidders shall not be permitted to withdraw their offer or modify the terms and conditions thereof. In case the bidder fails to observe and comply with the stipulations made herein or backs out after quoting the rates, the aforesaid ‘Bid Security’ shall be forfeited in the favor of The University of Faisalabad.
8. Bids shall remain valid and open for acceptance for a period of 60 days from the last date of submission of Bids.
9. The liquidated damages, if imposed, will be recovered at the rate of upto 0.67% of the value of goods supplied/installed/commission late per day or a part of a period exceeding the original delivery period, subject to the provision that the total liquidated damages thus Imposed will not exceed 10% of the total value of the goods delivered /installed/commission late.
10. The procuring agency reserves the right to increase or decrease the quantities of items depending upon the availability of budget and need/requirement.
11. Incomplete bids / conditional bids will be liable for rejection.
12. Refurbished/Used items shall not be accepted in any case.
13. The supplied Items as per demand will be checked by our technical department and if found otherwise will be rejected at once and the earnest money will be forfeited and blacklisting of the stated vendor be acted upon as per PPRA rules and laws.

14. All the bids must be inclusive of all government taxes and other charges.
15. Most Advantageous bidder will be required to deliver items within 30 Days after issuance of the Purchase Order.
16. Warranty of the items will start from the date of delivery. For goods offered from within Pakistan and abroad by the local agent by Pakistan the successful Bidder shall furnish the performance security @ 10% for the warranty period of the value of Supply Order or Contract in shape of CDR in favour of The University of Faisalabad, within Seven (07) days from the issuance of acceptance and 10% performance security letters from the Purchaser for equipment. In case the amount of bid security is equal or greater than the value of the performance security, then the bidder shall not require to furnish the performance security separately.
17. If the successful bidder fails to supply the items as per purchase order, the bid security will be forfeited.
18. Competent Authority reserves the right to reject all bids or proposal any time prior To the acceptance of a bid or proposal in the light of PPRA rules.
19. All the information provided by the bidder must be verifiable.
20. If the 1st lowest evaluated/ Most Advantageous bidder fails to sign the contract/Receive purchase order/ deliver the items then the bid money will be confiscated by the **The University of Faisalabad**. Accordingly, the old Purchase order will be cancelled and new Purchase Order will be issued to the 2nd lowest Evaluated Bidder/ 2nd Most Advantageous bidder with approval of the Competent Authority, as per PPRA rules.
21. Any bidder feeling aggrieved by any act of the procuring agency after the submission of his bid may lodge a written complaint concerning his grievances not later than 5 days after the announcement of the bid evaluation.

MANDATORY REQUIREMENTS

1. Firm must be registered with Tax authorities i.e. Sales tax & Income Tax
2. Firm must be registered with PPRA on e-PADS
3. Firm must not be Black listed by PPRA
4. Firm must have experience of at least 02 years for supplying required items
5. No re-furbished /used items will be accepted
6. Validity period of Bids must be at least 60 days
7. No bid shall be accepted without Draft/PO of Bid Security

Convener Tender Committee

University of Faisalabad

Canal Road Camps

Phoneno.0330-19806