

<u>TENDER DOCUMENTS</u> <u>Equipment for Artificial Intelligence from NRPU Project 17332</u> <u>NUTECH / SCM / Drone & Battery 23-24 / TD-325</u>

NATIONAL UNIVERSITY OF TECHNOLOGY

TENDER NOTICE

National University of Technology (NUTECH) NUTECH / SCM / Drone & Battery 23-24 / TD-325

- Sealed bids are invited from Government / FBR Registered Firms for the procurement of Lab Equipment from NRPU Project on FOR Basis. Tender documents (& draft contract) can be downloaded from NUTECH Website "https://nutech.edu.pk/downloads/procurement/scm tenders/ w.e.f 24 July 2024 and quotations shall be submitted as per requirement.
- 2. Bidders will be required to submit **Bank Draft/CDR/BC/PO/SDR** equal to **5%** of quoted value as Bid Bond in favor of National University of Technology (NUTECH).
- 3. Detail of bids and submission of tender is provided below: -

Ser	Description	Bank Account Details	Processing Fee	Submission	Tender Opening	Completion Days				
a. NUTECH / SCM / Drone & Battery 23-24 / TD-325 HBL, Tendering and Contracts, A/C # 5037-7000210755 Rs 3,000/- 1030 hrs on 08 Aug 24 1100 hrs on 08 Aug 24 15 Days										
(Tender fee in shape of CDR/BC/PO/SDR etc. will not be acceptable. Only <u>deposit receipt</u> shall be considered)										

Note: - Please attach bank receipt with technical offer. Offers will not be entertained without payment of processing fee.

Director (Supply Chain Management) NATIONAL

UNIVERSITY OF TECHNOLOGY, IJP ROAD, I-12, ISLAMABAD

Tel: 0092-51-5476768, Ext: 278

scm.office@nutech.edu.pk

Compliance – Check List

Offer must be quoted and arranged in accordance with below mentioned sequence.

Non- compliance & non-provision of following documents may lead to disqualification.

	Required Particulars	Documents	ts Attached	
Sr.		Yes / No	Page #	
1.	Tender Fee Original Receipt (Rs 3,000/-)			
2.	Technical & Financial Offer separately			
3.	NTN/GST Registration	No		
4.	All Annexures & Special Conditions Compliance Note: All annexures must be as per given format.	OL		
5.	OEM Registration / Authorization Certificate (if applicable)			
6.	OEM Details (if applicable)			
7.	Copy of Earnest Money (prices hidden)			
8.	Proforma Invoice (if applicable) (prices hidden)			
9.	OEM / Equipment brochures & details			
10.	Non-Blacklisting Certificate			
11.	Firm [®] s Complete details (address, contacts & email)			

NATIONAL UNIVERSITY OF TECHNOLOGY SUPPLY CHAIN MANAGEMENT

INVITATION TO TENDER

Tender submission time: 1030 hrs on 08 Aug 2024

- 1. NUTECH desires to procure the list of item(s) / Store(s) on <u>FORBasis</u> as per Annexure-A. Interested bidders are requested to send their bids through courier or deliver at NUTECH under "<u>Single Stage Two Envelopes</u>" (two envelopes placed together in third envelope), marked clearly as "Technical <u>Offer</u>" and "Commercial Offer" respectively to the undersigned, latest by or before above mentioned due date.
- 2. <u>Conditions Governing Contracts.</u> The contract made as result of this IT will be in accordance with the draft contract published on NUTECH University website and other special conditions (Mentioned in this document) that may be added to given contract for the supply of equipment.
- 3. <u>Delivery of Tender.</u> The offer is to be submitted as under:-

a. <u>Technical Offer.</u> Technical Offer should contain only Annexure-A,
 & Annexure B duly filled in (supported with relevant technical literature / details / catalogues etc) and receipt of tender processing fee. Copy of bid bond
 WITHOUT MENTIONING PRICE should be attached with technical offer.

Only relevant technical details

i.e literature/brochures) without mentioning the financial aspect of the offer should be enclosed in an envelope. In technical proposal, all items must have the brand names, model number, manufacturer's name, country of origin, manufacturer's warranty including parts with complete specs and brochures. Re-conditioned and re-furbished equipment shall not be acceptable. Following information will be clearly marked on the envelope:

- (1) Technical Offer
- (2) Original Performa Invoice (without price)
- (3) Tender number
- (4) Date/ time of opening
- b. <u>Commercial Offer.</u> Commercial Offer will contain Annexure-C and bid bond (Dully mentioned and placed in separate envelope. The offer indicating the quoted price FE/Local Currency (in Local Currency for FOR cases & in FE for FOB cases) in figures as well as in words would be enclosed in

an envelope. Following information will be clearly marked on the envelope;

- (1) Commercial Offer
- (2) Original Performa invoice with price
- (3) Tender number
- c. Both the envelopes i.e. commercial offer and technical offer would be enclosed in yet another properly sealed envelope that will be marked with address of this office only. There should be clear indication that this envelope contains tender documents.
- d. The tender duly sealed will be addressed to the following:-Deputy Director (Supply Chain Management Office) NATIONAL UNIVERSITYOF TECHNOLOGY (NUTECH) IJ P ROAD, I-12, ISLAMABAD Tel: 0092-51-5476768, Ext: 278
- 4. <u>Date and Time for Receipt of Tender.</u> Sealed bids with detailed specifications should reach SCM office latest by 1030 hours on 08 Aug 2024. Delay occurring in post shall not be accepted. Tenders received after the appointed / fixed time will NOT be entertained. The appointed time will, however, fall on next working day in case of closed / forced holiday.
- 5. <u>Tender Opening.</u> The offers shall be opened **30 minutes** after submission time. Commercial offers will be opened at later stage if Technical Offer is found acceptable on examination by technical authorities. Date and time for opening of commercial offer shall intimate later. Only legitimate / registered representatives of firm will be allowed to attend tender opening.
- Validity of Offer. The validity period of quotations must be indicated and should be 90 days from the date of opening of financial offer.
- 7. <u>Withdrawal of offer</u> If the firm withdraws its offer within validity period the competent authority may place such firm under embargo for a period, which may be extended up to one year. Moreover, the Earnest Money of the firm will be confiscated.
- 8. <u>Documents.</u> Following information / copy of documents must be provided / attached with offer:
 - a. A copy of letter showing firm"s financial capability.
 - b. NTN/GST number be mentioned on the offer and copy of registration Certificate issued by Sales Tax Department, attached.

- c. Foreign supplier to provide its Registration Number issued by respective
 Department of Commerce authorizing export of subject stores (in FOB cases).
- d. Annexes A, B and C and special conditions must be signed and stamped. ATTACH ONLY RELEVANT DOCUMENTS.
- e. Complete all Annexes as per given format. Do not use your format or letter head. Offer may be rejected if given format is not followed.
- f. OEM/principal agency agreement must be provided.
- 9. <u>Disgualification.</u> Offers are liable to be rejected if:
 - a. Validity of offer is not quoted as required in IT documents.
 - b. Any deviation from the General/ Special / Technical Instructions.
 - c. Offers are found conditional or incomplete in any respect.
 - d. Copy of EM/Bid Bond & Tender processing fee (with tech offer) and original EM/Bid Bond (with fin offer) are NOT attached.
 - e. Multiple rates/items are quoted against one item. Deleted
 - f. Manufacturer's relevant brochures and technical details on major equipment assemblies are not attached in support of specifications.
 - g. Offer received later than appointed / fixed date and time.
 - h. Subject to restriction of export license.
 - Offers (Commercial / technical) containing non-initialed / unauthenticated amendments / corrections / overwriting. If the validity of the agency agreement has expired. The commercial offer against FOB / CIF / C&F tender quoted in local currency.
 - j. If the offer is found to be based on cartel action in connivance with other sources/participants of the tender.
- 10. Earnest Money / Bid Bond. Commercial Offer must be accompanied with a Bid Bond (CDR/Pay Order/Bank Draft) in agreement of faithful compliance of the conditions of Contract. This amount will be equivalent to 5% of the total quoted value. The Bid Bond amount submitted by the successful bidder will however be refunded on effective termination of Contract. (The Bid Bond will be forfeited in case of default by the bidder from his commitments made through his offer). Submission of Bid Bond is mandatory; otherwise your offer will be rejected. Bid Bond will be used as performance guarantee till the delivery of stores, otherwise separate performance guarantee valued at 5 % of contract will be submitted by successful firm till stores are delivered and inspected.

11. <u>Return of Earnest Money/Bid Bond.</u>

- a. Bid Bond to the unsuccessful bidders will be returned on finalization of the lowest evaluated bidder.
- Bid Bond of the successful bidder/bidders will be returned on submission of Bank Guarantee/Bid bond against warranty period OR Bid bond retained for the warranty period as the case may be.

12. Terms of Payment/ LC Charges

(In FOB cases)

 All categories payment will be made through letter of credit (LC). LC opening charges in Pakistan are to be borne by NUTECH. Payment will be made through irrevocable LC in favour of Manufacturer.

In FOR cases

- b. 20% advance payment will be made to the Seller on provision of unconditional Bank Guarantee/ CDR/ DD/ Pay order. Advance BG/CDR/DD/Pay order will be submitted at the time of signing the contract.
- c. 80% payment will made to the Seller after receipt and confirming the correctness of ordered specifications, installation, commissioning.
- <u>Warranty: -</u> 01 Year Warranty will be required from the successful bidders from the date of commissioning.
- 14. <u>Taxes/ Duties/ Custom clearance</u> All taxes /duties /import Licenses Fee as applicable under government laws in Pakistan as well as country of supplier shall be on Seller (in FOR Case). NUTECH will provide applicable exemption certificates and documents (In FOB Cases only).
- **15.** <u>Insurance: -</u> Insurance will be Seller^s Responsibility (in FOR Cases) and NUTECH^s responsibility through NICL (in FOB Cases).
- 16. <u>Freight charges /Misc charges:</u> All charges such as packing, forwarding, local freight, loading and unloading, installation and commissioning, custom clearance, orientations, on job training or any other will be part of quoted price. Delivery till NUTECH will be seller^s responsibility and all associated costs will be part of quotation as well.
- 17. <u>Delivery Schedule.</u> Store will be delivered within 30 Days from contract signing date.
- **18.** <u>Force Majeure.</u> If non-compliance with the period of delivery or services can be proved to be due to Force Majeure, such as but not limited to mobilization, war,

riot, strike, lockout, pandemics/epidemics or the occurrence of unforeseen events, the period shall be reasonably extended.

- **19.** <u>Subletting</u> Suppliers are not allowed to sublet wholly or part of the contract to any other firm /company without prior permission by NUTECH. Firm found in breach of the clause will be dealt with as per purchaser^s right and discretion.
- 20. Arbitration. Will be as under:-

"All Claims ,disputes ,controversies, differences arising out of or in connection with this contract ,including any question regarding its existence, validity, interpretation performance, breach or termination ,shall be referred to and shall finally be solved by binding arbitration. An Arbitration Committee Shall be constituted comprising Rector NUTECH and two Arbitration to be nominated on mutual agreement by each party. The venue of the Arbitration shall be the place of issuance of this contract or as Rector NUTECH may determine. In case of any difference, the clauses of Arbitration Act 1940, Rules and Regulation made thereof for time being enforce shall prevail. The award shall be final and binding on both parties.

- a. Provided that written record of any such arbitration and its award shall be arranged properly.
 An award of such arbitration may be confirmed in a court of competent jurisdiction at Islamabad.
- b. Provided further that incase of any other question /dispute not covered under this clause, the decision of Rector NUTECH shall be final."
- 21. <u>Redress Of Grievance.</u> In case of dispute, case shall be reviewed by NUTECH Redress of grievance committee and decision of NUTECH shall be final and binding on both parties.
- 22. <u>Export License/Permit /End User Cert.</u> It shall be the responsibility of the Supplier to obtain from the Government concerned all permits and export licenses, etc required to enable each consignment to be shipped immediately as per the delivery schedule. In case the supplier fails to arrange export license within 30 days of signing the contract the purchaser reserves the right to cancel the contract on the risk and expense of the supplier without prior notice. The purchaser will provide End User Certificate for acquisition of export license to the supplier (format to be provided by the supplier for respective country within 10 day of signing of the contract).

23. <u>Technical Specification:</u> The supplier will provide OEM certificate, quality certificate

/inspection document to the purchaser confirming the quality of the product being supplied under this contract. Store must bear the manufacturer's identification marking /monogram.

- 24. Inspection /Testing of Store: Inspection testing will be carried out at NUTECH by the concerned inspection team as detailed by the respective department in accordance with the laid down Acceptance Criteria. (Acceptance Test Procedure (ATPs)/Drawing /Test standard and specification). The supplier will provide ATPs with technical offer. Mutually agreed/approved ATPs will form part of contract to govern the inspection of store subsequently.
- 25. <u>Change In Specification /Mfr /Model.</u> No alternation marked/brand and quality of store will be entertained after the tender have been opened.
- 26. Checking of Store at Consignee/User End. All stores will be checked at Consignee's end in the presence of the supplier's representative. If for some reason, the supplier decides not to nominate his representative for such checking, an advance written notice to this effect will be given by the supplier to the consignee prior to immediately on shipment of store. In such an event the supplier will clearly undertake that decision of consignee with regard to quantities and description of consignment will be taken as final and discrepancy found will be accordingly made up by supplier. In all other cases the consignee will inform the supplier about arrival of consignment immediately on receipt of store through registered email/letter and telephone. If no response from the supplier is received within 15 days from initiation letter the consignee will have the right to proceed with the checking without supplier's representative. User/Consignee's report on checking of the stores will be binding on the seller in such cases.
- 27. <u>Packing /Marking.</u> The supplier shall be responsible for proper packing of the Store in standard export packing worthy of transportation by sea /air /road rail so as to ensure their content being free from lose or damages due to faulty packing on arrival at the ultimate destination. Packing of stores will be done at the expenses of the supplier. All packing cases, containers and other packing material shall become the property of the NUTECH on receipt. Any loss occurred /demurrage paid due to wrong marking will be made good by the supplier.

28. <u>Original Performa Invoice</u>: Original Performa invoice must have following

components incorporated: -

- a. HS Code
- b. Incoterm
- c. Payment Terms
- d. Origin of good
- e. Port of shipment
- f. Address of OEM
- g. Seller acceptance (on Performa Invoice)
- h. Invoice Date
- i. Latest date of shipment
- j. Seller complete bank detail

Note: Performa Invoice in the name of NUTECH in case of FOB cases & in the name of local partner in case of FOR cases.

29. General Instructions: Following must be noted:-

- a. The firm should provide point to point acceptance of each clause of IT and special instructions attached with IT.
- Firm will render a certificate with technical offer that firm is neither defaulter nor blacklisted by any Government / semi Government organization directly or indirectly. (On Judicial Paper)
- c. Rates should be quoted on Free Delivery basis at NUTECH Islamabad.
- d. **01Year Warranty** will be required from the successful bidders from the date of commissioning as performance bond.
- e. The stipulated delivery period should be strictly adhered to. Any anticipated delay that is beyond the control of Seller will be informed (in writing) well in advance of the expiry of the due date of the activity along with reasons thereof, requesting for the grant of extension in delivery period. If the Seller fails to do so, or the Buyer is not convinced with the rationale provided by the Seller, Liquidated Damages up to/at 2% per month or part thereof, will be imposed. However, the maximum limit of the Liquidated Damages will not exceed 10% of the delayed store value.
- f. If even after applicability of 10% LD, the Seller fails to deliver the required stores, the Buyer will be at liberty to Cancel the contract, and /or procure the

of stores from an alternate source, on the Seller's "Risk & Cost/Expense". In that case, the Seller will be bound to make payment to the new source through NUTECH. The purchaser's decision under this clause shall NOT be subjected to arbitration.

- g. NUTECH reserves the right to cancel the Contract without assigning any reason whatsoever during its currency / execution / after placement, if the firm is found to be involved in any dubious activity, litigation, lacking to meet contractual obligations with the purchaser or is blacklisted with any other Public procurement agency. No claims / loss /damage of whatsoever nature shall be entertained and NUTECH's decision in this regard will be final / binding on the Seller.
- h. An appropriate amount may be paid for mobilization against Bank Guarantee/CDR/Demand Draft/Pay Order.
- Firms with previous pending/outstanding projects/business and unsatisfactory performance with NUTECH may not be considered for award of any further business.
- j. Lowest evaluated bidders must send their authorized representatives (with authorization letter) for signing of the contract within three days of sharing of the draft contract.
- k. For technical opening firm will send a representative who has knowledge about the quoted items otherwise representative will not be allowed to sit in tender opening.
- I. Stamp duty for Contract will be taken as per Section 22-A of Stamp Act 1899 Pakistan.

Deputy Director Supply Chain Management Office

Annex-A

Technical Specification NUTECH/SCM/Drone & Battery 23-24/TD-325

Sr. #	Item Name	Specification	A/U	Country of Origin	Qty Re q	OEM Auth Req (Yes/ No)	Bidd Comp Yes	ler Iliance No
1	Drone - DJI Mavic 3M Multispectral drone (OR) Equivalent	LOT A Drone Net Weight (with propellers and RTK module) 951 g Max Takeoff Weight 1,050 g Max Ascent Speed 6 m/s (Normal Mode) 8 m/s (Sport Mode) Max Descent Speed 6 m/s (Normal Mode) 6 m/s (Sport Mode) Max Flight Speed (at sea level, no wind) 15 m/s (Normal Mode) Flying forward: 21 m/s, flying sideways: 20 m/s, flying backwards: 19 m/s (Sport mode) Max Wind Speed Resistance 12 m/s Max Take-off Altitude Above Sea Level 6000 m (without a payload) Max Flight Time (without wind) 43 minutes Max Hover Time (without wind) 37 minutes Max Flight Distance 32 km Max Pitch Angle 30° (Normal Mode) S5° (Sport Mode) Max Angular Velocity 200°/s GNSS GPS + Galileo + BeiDou + GLONASS (GLONASS is supported only when RTK module is enabled)	No	Asian	1			

 Hovering Accuracy Range Vertical: ±0.1 m (Vision Positioning enabled); ±0.5 m (GNSS Positioning enabled); ±0.1 m (D-RTK enabled) Horizontal: ±0.3 m (Vision Positioning enabled); ±0.5 m (HD Positioning enabled); ±0.1 m (RTK enabled) Operating Temperature -10° to 40° C (14° to 104° F) Motor Model Number 2008 Propeller Model Number 9453F Enterprise Edition Light Sensor Built-in module 			
RGB Camera			
 Image Sensor 4/3 CMOS Effective Pixels: 20 MP Lens FOV: 84° Equivalent focal length: 24 mm Aperture: f/2.8 to f/11 Focus: 1 m to ∞ ISO Range 100-6400 Shutter speed Electronic shutter: 8-1/8000 s Mechanical shutter: 8-1/2000 s Max Image Size 5280×3956 Photo Shooting Mode Single shot: 20 MP Timelapse: 20 MP JPEG: 0.7/1/2/3/5/7/10/15/20/30/60 s JPEG + RAW: 3/5/7/10/15/20/30/60 s Panorama: 20 MP (original material) 			
 Video Resolution H.264: 4K: 3840×2160@30fps FHD: 1920×1080@30fps 			
Max Video Bitrate			

	4K: 130Mbps FHD: 70Mbps			
•	Supported File System ex FAT Image Format JPEG/DNG (RAW) Video Format MP4 (MPEG-4 AVC/H.264) Multispectral Camera Image Sensor 1/2.8-inch CMOS, effective pixels: 5 MP Lens FOV: 73.91° (61.2° x 48.10°) Equivalent focal length: 25 mm Aperture: f/2.0 Focus: Fixed Focus			
•	Multispectral Camera Band Green (G): 560 ± 16 nm; Red (R): 650 ± 16 nm; Red Edge (RE): 730 ± 16 nm; Near infrared (NIR): 860 ± 26 nm;			
•	Gain Range 1x-32x Shutter Speed Electronic Shutter: 1/30~1/12800 s			
•	Max Image Size 2592×1944 Image Format TIFF Video Format MP4 (MPEG-4 AVC/H.264) Photo Shooting Mode Single shot: 5 MP Timelapse: 5 MP TIFF: 2/3/5/7/10/15/20/30/60 s			
•	Video Resolution			

H 264 FHD: 1920 x 1080@30fps Video content: NDVI/GNDVI/NDRE • Max Video Bitrate Stream: 60 Mbps Video Transmission DI O3 Image Transmission Industry Edition • Live View Quality Remote Controller: 1080p/30fps • Operating Band 2.400-2.4835 GHz 5.725-5.850 GHz • Max Effective Signal Distance (Unobstructed, No interference) ^[8] FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km • Max Transmission Distance (Obstructed) Strong Interference (urban landscapes, residential areas, etc.): 1.5-3 km (FCC/CE/SRRC/MIC) Medium Interference (suburban landscapes, city parks, etc.): 3-9 km (FCC), 3-6 km (CE/SRRC/MIC)			 -		
Stream: 60 Mbps Video Transmission • Video Transmission System DJI 03 Image Transmission Industry Edition • Live View Quality Remote Controller: 1080p/30fps • Operating Band 2.400-2.4835 GHz 5.725-5.850 GHz • Max Effective Signal Distance (Unobstructed, No interference) ^[8] FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km • Max Transmission Distance (Obstructed) Strong Interference (urban landscapes, residential areas, etc.): 1.5-3 km (FCC/CE/SRRC/MIC) Medium Interference (suburban landscapes, city parks, etc.): 3-9 km (FCC), 3-6 km (CE/SRRC/MIC)		FHD: 1920 x 1080@30fps			
 Video Transmission System DJI 03 Image Transmission Industry Edition Live View Quality Remote Controller: 1080p/30fps Operating Band 2.400-2.4835 GHz 5.725-5.850 GHz Max Effective Signal Distance (Unobstructed, No interference) ^[8] FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km Max Transmission Distance (Obstructed) Strong Interference (urban landscapes, residential areas, etc.): 1.5-3 km (FCC/CE/SRRC/MIC) Medium Interference (suburban landscapes, city parks, etc.): 3-9 km (FCC), 3-6 km (CE/SRRC/MIC) 					
DJI O3 Image Transmission Industry Edition Live View Quality Remote Controller: 1080p/30fps Operating Band 2.400-2.4835 GHz 5.725-5.850 GHz Max Effective Signal Distance (Unobstructed, No interference) ^[8] FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km Max Transmission Distance (Obstructed) Strong Interference (urban landscapes, residential areas, etc.): 1.5-3 km (FCC/CE/SRRC/MIC) Medium Interference (suburban landscapes, city parks, etc.): 3-9 km (FCC), 3-6 km (CE/SRRC/MIC)		Video Transmission			
 Operating Band 2.400-2.4835 GHz 5.725-5.850 GHz Max Effective Signal Distance (Unobstructed, No interference) ^[8] FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km Max Transmission Distance (Obstructed) Strong Interference (urban landscapes, residential areas, etc.): 1.5-3 km (FCC/CE/SRRC/MIC) Medium Interference (suburban landscapes, city parks, etc.): 3-9 km (FCC), 3-6 km (CE/SRRC/MIC) 		-			
 interference) ^[8] FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km Max Transmission Distance (Obstructed) Strong Interference (urban landscapes, residential areas, etc.): 1.5-3 km (FCC/CE/SRRC/MIC) Medium Interference (suburban landscapes, city parks, etc.): 3-9 km (FCC), 3-6 km (CE/SRRC/MIC) 		Operating Band 2.400-2.4835 GHz			
Strong Interference (urban landscapes, residential areas, etc.): 1.5-3 km (FCC/CE/SRRC/MIC) Medium Interference (suburban landscapes, city parks, etc.): 3-9 km (FCC), 3-6 km (CE/SRRC/MIC)		interference) ^[8] FCC: 15 km CE: 8 km SRRC: 8 km			
Medium Interference (suburban landscapes, city parks, etc.): 3-9 km (FCC), 3-6 km (CE/SRRC/MIC)		Strong Interference (urban landscapes, residential			
etc.): 9-15 km (FCC), 6-8 km (CE/SRRC/MIC)		Medium Interference (suburban landscapes, city parks, etc.): 3-9 km (FCC), 3-6 km (CE/SRRC/MIC) Weak Interference (remote fields, open farmland,			
Max Download Speed 15 MB/s (with DJI RC Pro Industry Edition)					
Latency (depending on environment and mobile		 Latency (depending on environment and mobile 			

•	device) Approximately 200 milliseconds Antennas 4 antennas, 2 transmitting and 4 receiving Transmitter Power (EIRP) 2.4 GHz: <33 dBm (FCC), <20 dBm (CE/SRRC/MIC) 5.8 GHz: <33 dBm (FCC), <30 dBm (SRRC), <14 dBm (CE)			
•	Other Supports the DJI Cellular module			
Bi	attery			
	Capacity 5000 mAh Standard Voltage 15.4 V Max Charging Voltage 17.6 V Battery Type LiPo 4S Chemical System Lithium Cobalt Energy 77 watt-hours Weight 335.5 g Charging Temperature 5° to 40° C (41° to 104° F) attery Charger			
•	Input 100V to 240V (AC), 50Hz to 60Hz, 2.5A			
•	Output Power 100 Watts			
•	Output Maximum output power of 100 Watts (total) When both the ports are used, the maximum output power of one interface is 82 W, and the charger will			

dynamically allocate the output power of the two
interfaces according to load power.
Charging Hub
Input
USB-C: 5V to 20V, 5.0A
Output
Battery Port: 12V to 17.6V, 8.0A
Rated Power
100 Watts
Charging Type
3 batteries on charging rotation
Charging Temperature
5° to 40° C (41° to 104° F)
RTK Module
Dimensions
50.2×40.2×66.2 mm (Length ×Width × Height)
Weight
24±2 g
Interface
USB-C
Power
Approximately 1.2 watts
RTK Position Accuracy
Fixed RTK:
Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm
including:
DJI Terra Full-Featured 3-Month 1-Device

		 DJI SmartFarm Platform (1-year access) Warranty: 1 Year Warranty 				
		Battery				
2	Battery - DJI Mavic 3M Multispectral OEM Battery	 Capacity 5000 mAh Standard Voltage 15.4 V Max Charging Voltage 17.6 V Battery Type LiPo 4S Chemical System Lithium Cobalt Energy 77 watt-hours Weight 335.5 g Charging Temperature 5° to 40° C (41° to 104° F) Warranty: 1 Year Warranty 	Asia	n 1		

<u>Annex-B</u>

Technical Offer NUTECH/SCM/Drone & Battery 23-24/TD-325

	Fill in following essential Parameters: -	
1.	Validity of Offer:	Days (Should not be less than 30 days)
2.	Delivery period:	Days (After placement of order)
3.	Country of Origin:	
4. Gene	Warranty Period	
1.	GST Number:	(Enclose Copy)
2.	NTN / CNIC: Payment Terms (In continuation of IT D	(if exempted, provide valid exemption certificate cument clause 12)

In FOR Cases

20% advance payment against BG/CDR/Pay Order/DD

Remaining 80% payment after delivery, installation / commissioning /user satisfaction certificate

Details of Foreign Principal Information with account details)

- 1. Name / Title:
- 2. Address:

Annex C

OEM Name:	Firm Name:	Signature:
OEM Focal Person:	Firm Focal Person:	Official Seal:
OEM Phone Number:	Firm Phone Number:	Name & CNIC:
OEM Email Id:	Firm Email Id:	Designation:

FINANCIAL OFFER NUTECH/SCM/Drone & Battery 23-24/TD-325

Sr. #	Item Name	Specification	A/U	Country of Origin	Qty Re q	Unit Price PKR (Including Tax)	Total Price PKR (Including Tax)
		LOT A					
1			No	Asian	1		

•	Positioning enabled); ±0.5 m (GNSS Positioning enabled); ±0.1 m (D-RTK enabled) Horizontal: ±0.3 m (Vision Positioning enabled); ±0.5 m (HD Positioning enabled); ±0.1 m (RTK enabled) Operating Temperature -10° to 40° C (14° to 104° F) Motor Model Number 2008 Propeller Model Number 9453F Enterprise Edition Light Sensor Built-in module
•	ICBE Camera Image Sensor 4/3 CMOS Effective Pixels: 20 MP Lens FOV: 84° Equivalent focal length: 24 mm Aperture: f/2.8 to f/11 Focus: 1 m to ~ ISO Range 100-6400 Shutter speed Electronic shutter: 8-1/8000 s Mechanical shutter: 8-1/2000 s Max Image Size 5280×3956 Photo Shooting Mode Single shot: 20 MP JPEG: 0.7/1/2/3/5/7/10/15/20/30/60 s JPEG + RAW: 3/5/7/10/15/20/30/60 s Panorama: 20 MP (original material) Video Resolution H.264: 4K: 3840×2160@30fps FHD: 1920×1080@30fps Max Video Bitrate

	_
4K: 130Mbps	
FHD: 70Mbps	
Supported File System exFAT	
Image Format JPEG/DNG (RAW)	
Video Format MP4 (MPEG-4 AVC/H.264) Multispectral	
Camera	
Image Sensor 1/2.8-inch CMOS, effective pixels: 5 MP	
• Lens	
FOV: 73.91° (61.2° x 48.10°)	
Equivalent focal length: 25 mm	
Aperture: f/2.0	
Focus: Fixed Focus	
Multispectral Camera Band	
Green (G): 560 ± 16 nm;	
Red (R): 650 ± 16 nm;	
Red Edge (RE): 730 ± 16 nm;	
Near infrared (NIR): 860 ± 26 nm;	
 Gain Range 1x-32x 	
Shutter Speed	
Electronic Shutter: 1/30~1/12800 s	
Max Image Size 2592×1944	
Image Format TIFF	
Video Format MP4 (MPEG-4 AVC/H.264)	
Photo Shooting Mode	
Single shot: 5 MP	
Timelapse: 5 MP	
TIFF: 2/3/5/7/10/15/20/30/60 s	
Video Resolution	
H.264	
FHD: 1920 x 1080@30fps	
Video content: NDVI/GNDVI/NDRE	

 Max Video Bitrate Stream: 60 Mbps <u>Video Transmission</u> Video Transmission System DJI 03 Image Transmission Industry Edition Live View Quality Remote Controller: 1080p/30fps Operating Band 2.400-2.4835 GHz 5.725-5.850 GHz Max Effective Signal Distance (Unobstructed, No interference) ^[8] FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km Max Transmission Distance (Obstructed) Strong Interference (urban landscapes, residential areas, etc.): 1.5-3 km (FCC/CE/SRRC/MIC) Medium Interference (urban landscapes, cresidential areas, etc.): 3-9 km (FCC), 3-6 km (CE/SRRC/MIC) Weak Interference (remote fields, open farmland, etc.): 9-15 km (FCC), 6-8 km (CE/SRRC/MIC) Max Download Speed 15 KmB/s (with DJI RC Pro Industry Edition) Latency (depending on environment and mobile device) Approximately 200 milliseconds Antennas 4 antennas, 2 transmitting and 4 receiving 				
Video Transmission System DJI 03 Image Transmission Industry Edition Live View Quality Remote Controller: 1080p/30fps Operating Band 2:400-2:4835 GHz 5.725-5.850 GHz Max Effective Signal Distance (Unobstructed, No interference) ^[8] FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km Mix: 8 km Mix: 15.3 km (CC): 15.4 (CE): 15.53 km MIC: 8 km Mix: 7 ransmission Distance (Obstructed) Strong Interference (subturban landscapes, residential areas, etc.): 1.5-3 km (FCC/CE/SRRC/MIC) Meak Interference (remote fields, open farmland, etc.): 9-15 km (FCC), 6-8 km (CE/SRRC/MIC) Wax Download Speed 15 MB/s (with DJI RC Pro Industry Edition) Latency (depending on environment and mobile device) Approximately 200 milliseconds Antennas				
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		Antennas		
4 antennas, 2 transmitting and 4 receiving				
		4 antennas, 2 transmitting and 4 receiving		
		,		

	er Power (EIRP)		
	<33 dBm (FCC), <20 dBm (CE/SRRC/MIC)		
5.8 GHz:	<33 dBm (FCC), <30 dBm (SRRC), <14 dBm		
(CE)			
Other			
Supports t	he DJI Cellular module		
Battery			
Capacity 5	000 mAh		
	Voltage 15.4 V		
	ging Voltage 17.6 V		
	pe LiPo 4S		
	System Lithium Cobalt		
	watt-hours		
Weight 33			
	Temperature 5° to 40° C (41° to 104° F)		
Battery Char	• • • • •		
Input	—		
100V to 24	0V (AC), 50Hz to 60Hz, 2.5A		
Output Pov			
100 Watts			
Output			
Maximum	output power of 100 Watts (total)		
	h the ports are used, the maximum output		
	one interface is 82 W, and the charger will		
	ly allocate the output power of the two		
	according to load power.		
Charging Hu	•		
● Input	*		
	/ to 20V, 5.0A		
030-0.37		1	

		Output					
		Output					
		Battery Port: 12V to 17.6V, 8.0A					
		Rated Power					
		100 Watts					
		3 batteries on charging rotation					
		Charging Temperature					
		5° to 40° C (41° to 104° F)					
	E	RTK Module					
		Dimensions					
		50.2×40.2×66.2 mm (Length×Width×Height)					
		Weight					
		24±2 g					
		Interface					
		USB-C					
	Power						
		Approximately 1.2 watts					
		RTK Position Accuracy					
		Fixed RTK:					
		Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm					
		including:					
	 DJI Terra Full-Featured 3-Month 1-Device 						
 DJI SmartFarm Platform (1-year access) 							
		Warranty: 1 Year Warranty					
	Battory C	Battery					
				Asian			
2		Capacity 5000 mAh			I	1	
	3M	Standard Voltage 15.4 V					

Multispectr	Max Charging Voltage 17.6 V			
al OEM	 Battery Type LiPo 4S 			
Battery	Chemical System Lithium Cobalt			
	 Energy 77 watt-hours 			
	• Weight 335.5 g			
	 Charging Temperature 5° to 40° C (41° to 104° F) 			
	Warranty: 1 Year Warranty			

Tender No	
Name of the Firm _	
Firm Address	
Date	
Telephone No	
E-Mail	

To, DD SCM Office NUTECH University I- 2, Main IJP Road, Islamabad.

Dear Sir

- 1. I / We hereby offer to supply to the NUTECH University the stores detailed in schedule to the tender inquiry or such portion thereof as you may specify in the acceptance of tender at the price offered against the said schedule and further agree that this offer will remain valid up to 90 days after opening of Financial offer and will not be withdrawn or altered in terms of rates quoted and the conditions already stated therein or on before this date. I / we shall be bound by a communication of acceptance to be dispatched within he prescribed time.
- 2. I / we have understood the instructions to Tenders and General Conditions Governing Contract available at NUTECH website and have thoroughly examined the specifications / drawing and / or patterns quoted in the schedule here to and am/are fully aware of the nature of the stores required and my/ our offer is to supply stores strictly in accordance with the requirements.

Yours Faithfully.

(Signature of Tenderer) Designation Date:

Individual signing tender and / or other documents connected with a contract must be signed by principal authorized rep/ OEM rep/ Authorized partner firm rep.

SPECIMEN FOR "ADVANCE PAYMENT BANK GUARANTEE"

Guarantee No: ____Date ____Amount: _____Valid upto: _____

In Favour of:

National University of Technology (NUTECH), IJP Road, I-12, Islamabad

Subject: Advance Payment Bank Guarantee

Contract No:_____DATED.____

Dear Sir,

1. We [Name of Guarantor] understand that you have entered into contract with <u>M/S [Name of Firm]</u> (hereinafter called Our Client), for provision of [Name of Stores]. And as per the above mentioned Contract, you are liable to pay to Our Client an amount of [Amount of Guarantee] in advance, which shall be released against a Bank Guarantee. 2. Bank & seller firm shall inform your office regarding termination of the validity of this bank Guarantee one clear month before the actual expiry date of this Bank Guarantee.

3. Now, we hereby irrevocably undertake to immediately make payment on to your orders, merely upon receipt of your first written notice, an amount not exceeding [Amount of Guarantee] that may be claimed by you at your own discretion without it being necessary for you to prove or even assert to the Bank any default whatsoever of Our Client under the Contract.

4. Claims against this Guarantee shall be lodged on us through written request/s on your proper Letter Head. Unless claims are not presented on or before the Validity Date, all rights and benefits under this guarantee shall be forfeited and we shall be released from all claims, demands or liabilities of any kind whatsoever.

5. This Guarantee shall remain in force up to the above mentioned Validity Date which can however, be extended upon request of Our Client.

Yours faithfully,

Signature:
Name:
Designation:
Bank Stamp:

<u>"SPECIMEN FOR BANK GUARANTEE AGAINST PERFORMANCE/WARRANTY</u> <u>GUARANTEE"</u>

Guarantee No:_____Date_____Amount:_____Valid upto:_____

In Favour of: National University of Technology (NUTECH), IJP Road, I-12, Islamabad

Subject: In compliance with terms of Performance/Warranty Guarantee Bank Guarantee

Contract No:_____dated_____

Dear Sir,

- Whereas your good-self have entered into Contract No <u>dated with</u> M/s [Firm Name] Located at [Firm Address], Herein after referred to as our customer and that one of the conditions of the Contract is submission of Bank Guarantee by our customer to your good-self for a sum of [Amount].
- 2. Incompliance with this stipulation of subj contract, we hereby agree and undertake as under:
 - a. To pay to you unconditionally on demand and / or without any reference to our Customer an amount not exceeding the sum of [Amount] as would be mentioned in your written Demand Notice.
 - b. To keep this Guarantee in force till [Validity Date].
 - c. That the validity of this Bank guarantee shall be kept two clear year ahead of the original / extended delivery period or the warrantee of the stores which so ever is later in duration on receipt of information from your office. Our liability under this Bank Guarantee shall cease on the closing of banking hours on the last date of validity of this Bank Guarantee. Claim received there after shall not been entertained by us whether you suffer a loss or not. On receipt of payment under this Guarantee, this documents i.e., Bank Guarantee must be clearly cancelled, discharged and returned to us.
 - d. That we shall inform your office regarding termination of the validity of this bank Guarantee on clear month before the actual expiry date of this Bank Guarantee.
 - e. That with the consent of our customer you may amend / alter any term / cause of the contractor add / delete any term / clause to / from this contract

without making any reference to us. We do not reserve any right to receive any such amendment / alternation or addition / deletion

provided such like actions do not increase our monetary liability under this Bank Guarantee which shall be limited only [Amount].

- f. That the bank guarantee herein before given shall not be affected by any change in the constitution of the Bank or Customer / Supplier or Vendor.
- g. That this is an unconditional Bank guarantee, which shall been cashed on sight on presentation without any reference to our Customer / Supplier or Vendor.

Signature	
-	

Name_____

- .	
Desig_	

Bank Stamp_____

Note: No changes in the above given BG format shall be accepted.

"SELLER'S WARRANTY CERTIFICATE"

(To be provided on stamp paper) Dated:

Contract No:

Validity 01 year from the date of final acceptance of the Stores.

We hereby guarantee that we are the genuine and original Source of provisioning the Stores to our Buyer. We also undertake that nothing in the manufacturing of these Stores has been obtained through unauthorized means.

1. We hereby warrant and undertake that the Stores and all the associated spares/ accessories supplied under the terms and conditions of the above Contract, are:

- a. brand new, complete in all respects, possessing good quality and standard workmanship; and
- b. liable for replacement/rectification free of charge, if during the Warranty period the same are found defective before or under normal use or these do not remain within the limits and tolerances stated under the specifications or in any way not in accordance with the terms of this Contract. All expenses incurred in removal, re- provisioning and reinstallation of such defective Stores or their parts shall also be borne by us.

2. The Warranty shall remain valid for a period of _years from the date of final acceptance of the Stores.

Signature & Stamp	
Name & CNIC	
Designation:	
Date:	

**Sellers warranty must be provided by the Seller (firm) on Rs 100 stamp paper along with bank guarantee/CDR/Pay Order without changing a word. BG with additional clauses will be rejected.

<u>CHECK LIST</u>

(This checked list must be attached with your technical offer, duly filled and

Signed by authorized signatory)

Tender No_____

Date_____

1	Tender Processing	a. Tender processing fee ref no			
	Fee	b. Bank			
		c. Amount			
2	EM/ Bid Bond	a. EM/ Bid Bond ref no			
		b. Bank			
3	Form Annex A, B and G	C signed by Authorized	Yes	No	
	Signatory				
4	Offering specification of	f items as per IT	Yes	No	
5	Quoted Currency as pe	er IT	Yes	No	
6	Accounting unit/Qty as	per IT	Yes	No	
7	Delivery Schedule as p	er IT	Yes	No	
8	Country of origin of store				
9	Name of OEM:-		_		
10	Original Performa invo	ce (Mandatory)	Yes	No	
11		o Deviation from IT conditions/	Yes	No	
	there is deviation from IT condition as per fol details				
12	2 Blacklisting certificate. Yes No			No	
13	Verifiable OEM Certificate Yes No			Νο	
14	Warranty Period as per ITYesNo			No	
15	ATPs provided		Yes	No	

Note: Fill and/or mark Yes/No where required.

Signature of Firm Auth Signatory

Special Instructions

Special Instructions(Applicable to all Items except Item Sr. 3.4.5)						
Description	Bidder			Tech Scrutiny to be done by User		
	Yes	No	Alternate Offer	Accepte d	Rejected	Reasons of Rejection
Commissioning						
 a) Commissioning of the equipment will be carried out by OEM rep at his own cost and risk at designated place at NUTECH. 						
b) Any special requirement for installation, operation and commissioning must be specified in the offer by the supplier.						
Warranty period 1 Year from the date of commissioning.						
Physical Inspection Criteria						
 100% Physical inspection of store will be carried out before commissioning of the equipment for following details: a) For physical damage, scratches and deformity. b) Accessories/Components as per contractual Specifications c) Technical manuals (Operation manual, user guide). d) OEM certificate and verifiable documents by the supplier that store has been procured from the certified source and is factory new and from latest production. e) Brand name and country of origin. 						
Spares / Technical Support						
 a) Supplier to have in-country spares / technical support and ensure spares and technical support / assistance during warranty period (support should be provided within 3 to 5 days of reporting of an issue). 						
 b) Comprehensive list of spares required for scheduled maintenance of equipment is to be provided. 						
 c) Any software provided must have its license. d) Supplier must also provide calibration service during warranty period. e) Supplier should visit the facility before installation. 						

 Additional Spare / Replaceable parts. a) Replaceable spare / parts during scheduled inspections are to be identified and provided as per requirement along with equipment sufficient to cater two years consumption after commissioning. b) All specialized / standard tools required for inspection / repair / servicing must be supplied along with equipment. 			
Improvement and Safety Measures: Any improvement and safety measures suggested by NUTECH during commissioning are to be resolved by the supplier / manufacturer at no extra cost.			
 Liability of Supplier a) OEM certificate of authorized dealership Supplier is to provide original OEM certificate of subject equipment bought directly from the manufacturer and being an authorized dealer. b) In case the equipment supplied is not compatible with specifications, the supplier will be obliged to call his representatives at his own cost for consultation and corrective action. 			

Special Notes	
a) Additional requirements for the maintenance of equipment (if any) must be intimated by the supplier in technical offer.	
 b) Supplier must provide the list of organizations using the same equipment in Pakistan (if any). 	
c) Equipment must be a standard product of OEM available at web Address of OEM.	
 In case of premature failure of the equipment, the OEM has to replace / rectify the item free of cost. Required transportation charges would be borne by the supplier. 	
 e) In technical proposal, all items must have the brand names, model number, manufacturer name, country of origin, manufacturer's warranty including parts with complete specs and brochures. Reconditioned and refurbished equipment shall not be acceptable. 	
 f) Supplier must arrange NOCs (if required) for the drone (import) during procurement. 	
	Firm Name
	Signature
	Name
	Designation

Page **46** of **46**