

TENDER DOCUMENTS

Computer Lab Equipment

NUTECH / SCM / Computer Lab Eqpt (Ph-V) 2020 / TD-170

NATIONAL UNIVERSITY OF TECHNOLOGY

CANCELLATION NOTICE

National University of Technology (NUTECH)

1. Tender no <u>NUTECH / SCM / Furniture Items 2020 / TD-163</u> advertised on PPRA dated 24 Sep 2020, on NUTECH Website dated 23 Sep 2020 and in Daily Express and Express Tribune newspaper on 25 September 2020 **stands cancelled**.

TENDER NOTICE

<u>National University of Technology (NUTECH)</u> <u>NUTECH / SCM / Computer Lab Eqpt (Ph-V) 2020 TD-170 &</u> NUTECH / SCM / RFID Cards & Printer 2020 / TD-177

2 Sealed bids are invited from Government / FBR Registered Firms for the procurement for NUTECH on **FOR Basis**.

3. Tender documents containing terms, conditions and detailed specifications of items (including draft contract) can be downloaded from NUTECH website "https://nutech.edu.pk/downloads/procurement/scm-tenders/" w.e.f **08 October 2020**.

4. Quotations shall be submitted as per requirement of the tender documents.

5. Bidders will be required to submit **Bank Draft / CDR** equal to **5%** of quoted value as Bid Bond in favor of National University of Technology (NUTECH).

6. Submit Rs 1500/- as Tender fee in favor of NUTECH HBL Account (NUTECH

<u>Tendering and Contracts. 5037-7000210755</u>). Please attach bank receipt with technical offer. Offers will not be entertained without payment of processing fee.

7. Details for Submission & Opening of bids for each tender are as under:-

Ser	Description	Submission	Tender Opening	Completion Days
a.	Computer Lab Equipment (TD-170)	1030 hrs on 27 October 2020	1100 hrs on 27 October 2020	90 Days
b.	RFID Cards & Printer (TD-177)	1130 hrs on 27 October 2020	1200 hrs on 27 October 2020	30 Days

Deputy Director (Supply Chain Management)

NATIONAL UNIVERSITY OF TECHNOLOGY, IJPROAD, I-12, ISLAMABAD

Tel: 0092-51-5476768, Ext: 178

NATIONAL UNIVERSITY OF TECHNOLOGY SUPPLY CHAIN MANAGEMENT INVITATION TO TENDER

Tender submission time: 1030 hours, 27 October 2020

1. NUTECH desires to procure the list of item(s) / Store(s) on <u>FOR</u> <u>**b a s i s**</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 <u>envelopes placed together in third envelope</u>), marked clearly as **"Technical** <u>**Offer"** and **"Commercial Offer"** respectively to the undersigned, latest by or before above mentioned due date.</u>

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 Lab Equipment.</u>

3. Delivery of Tender. The offer is to be submitted as under:-

- a. <u>Technical Offer.</u> Technical Offer should contain only Annexure-A, Annexure-A-1 & 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 in DUPLICATE 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 UNIVERSITY OF TECHNOLOGY (NUTECH) IJ P ROAD, I-12, ISLAMABAD Tel: 0092-51-5476768, Ext: 227

4. **Date and Time for Receipt of Tender.** Sealed bids with detailed specifications should reach SCM office latest by **1030 hours on 27 October 2020.** 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 intimated later. Only legitimate / registered representatives of firm will be allowed to attend tender opening.

6. <u>Validity of Offer.</u> The validity period of quotations must be indicated and should be **90 days** from the date of opening of financial offer.

7. <u>With drawal of offer</u> If the firm withdraws its offer within validity period the competent authority may place such firm under <u>embargo for a period</u>, which may be <u>extended up to one year</u>. Moreover, the Earnest Money of the firm will be <u>confiscated</u>.

8. **Documents.** 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, A-1, 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. **Disgualification.** 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.
 - 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-initialled / 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. Return of Earnest Money/Bid Bond.

- a. Bid Bond to the unsuccessful bidders will be returned on finalization of the lowest evaluated bidder.
- b. 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 OR as the case may be i.e through Inland LC.

13. <u>Warranty/ Bank Guarantee (BG)</u>. **1 Year (Except Ser 15)** against **5% Bank Guarantee/CDR/Pay Order/Bank Draft** of the store value will be required from the successful bidders from the date of commissioning as performance bond. BG submitted shall remain valid for up to 60 days beyond completion of warranty period.

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 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. **Delivery Schedule.** Store will be delivered within **90 days** from contract signing date.

18. **Force Majeure.** 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. **Subletting** 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 **Export License/Permit /End User Cert.** 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. **Technical Specification:** 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. **Change In Specification / Mfr / Model.** 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. **Packing /Marking.** 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. **Original Performa Invoice**: 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.
- b. 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. 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.
- e. 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 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.

- f. 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.
- g. An appropriate amount may be paid for mobilization against Bank Guarantee/CDR/Demand Draft/Pay Order.
- h. Firms with previous pending/outstanding projects/business and unsatisfactory performance with NUTECH may not be considered for award of any further business.

Deputy Director Supply Chain Management Office

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<u>Annex-A</u>

Technical Specifications

NUTECH / SCM / Computer Lab Eqpt (Ph-V) 2020 / TD-170

Ser	Part No	rt No Items	Description	Country of Origin	A/U	Qty Req	Bidder Compliance		by user	
							Yes	No	-	Rejected
1		Power Pack	 Power Pack for mini Drone: Multi-Charger to recharge up to 4 batteries 	Any	No	2			Reason of	Rejection
			 AC/DC Adaptor USB Cable 							
			2 Lipo Batteries (3.7v 300mAh1 User Manual							
			Power pack should be compatible with contracted programmable drone CoDrone Pro							
2		Camera (FPV) Add- on for	 Camera (FPV) Add-on for to turn your drone: into a flying HD camera (1280 x 720 resolution) Drone body HD FPV Camera (live stream compatible) 	Any	No	2				
			 1 User Manual Camera (FPV) Add-on should be compatible with contracted programmable drone CoDrone Pro 							
3		Drive Kit	 Drive Kit transform your Drone into a remote- controlled car: 2 Wheels, 2 Geared Motor Brackets, 2 H- Wings, 2 V-Wings, 1 Wing Bracket, 1 Wing Bracket, 1 User Manual Drive Kit should be compatible with contracted programmable drone CoDrone Pro 	Any	No	2				
4		PICkit 4 In-Circuit Debuggert	PICkit 4 In-Circuit Debugger/Programmer (Portable USB-powered USB 2.0, no external power required, 8-pin single in-line header, Supports 4-wire JTAG) Package contents:	Any	No	10				

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5	PLA Spools	 PICkit 4 In-Circuit Debugger/Programmer USB to micro-B USB cable Warranty card 2 PICKit 4 stickers or equivalent Large 10-Pack PLA Filament, Spool, 1.75 millimeters Diameter (Pack of 10) Sample colors: Red, Orange, Yellow, Green, Blue, Purple, White, Warm Gray, Cool Gray, and Black. PLA Spools should be compatible with contracted 	Any	Pack	4		
		Makerbot Replicator+					
6	Soldering Station	 5 in 1 Comprehensive Desoldering Station SMD Maintenance Station Soldering Iron Heat Gun with Variable power supply. Item specifics: Rated Voltage:220V At Least Air Volume:250L Feature: Temperature Adjustable Feature: Temperature Digital Display Feature: Cool / Hot Air At least Rated Output Power:1600W USB ports interface Includes: Power supply plug cables with alligator clips. or equivalent 	Any	No	5		
7	Plug&Play Industrial Edge Gateway Box and industrial sensors (Cloudrail.Box)	 From Sensor to any Cloud in < 1 Minute. Features such as Plug&Play device provisioning, smart data transformation, advanced security functions and edge computing. Package Contains: Cloudrail.Box (connect over 12.000 industrial sensors to any cloud platform) IO-Module for 8 Sensors / Actuators Laser Distance Sensor Vibration Sensor (x5) RFID Reader / Writer + 2 Tags 	-	No	1		

6. Temperature Sensor 7. Adaptor for Analog (4-20mA) Sensors Power adapters and all types of cables to connect sensor, IO modules and Gateway. or equivalent 8 a Predictive Solution for condition monitoring and predictive Any No 1 maintenance based on 3D digital accelerometer, maintenance environmental and acoustic MEMS sensors reference kit with sensors and IO-Main components: Link capability 32-bit ARM® Cortex®-M4 core for signal processing and analysis (STM32F469AI) iNEMO 6DoF (ISM330DLC) Absolute digital pressure sensor (LPS22HB) Relative humidity and temperature sensors (HTS221) Digital microphone sensors (MP34DT05-A) IO-Link PHY device (L6362A) EEPROM (M95M01-DF) for data storage Step-down switching regulator and LDO regulator (L6984 and LDK220) Main supply voltage: 18 V - 32 V Complete set of firmware demo examples based on 3D accelerometer library with advanced frequency and time domain signal processing for predictive maintenance, including: Programmable FFT size (512, 1024, 2048) Programmable FFT averaging Programmable overlapping Programmable windowing (Flat Top, Hanning, Hamming) Speed RMS moving average, acceleration max. peak Programmable threshold for warning and alarm conditions in spectral band Microphone algorithms for: PDM to PCM

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		Compatible with serial 8a					
		or equivalent					
8 C	Industrial sensor board	Reference design for predictive maintenance with vibration, acoustic and environmental monitoring (P, RH, T) STEVAL-IDP005V1- Industrial sensor board	Any	No	1		
		Main supply voltage: 1832V Main components: • 32-bit ARM® Cortex®-M4 core for signal					
		processing and analysis (STM32F469AI) Sensors:					
		 iNEMO 6DoF (ISM330DLC- accelerometer and gyroscope) 					
		 Absolute Digital Pressure (LPS22HB) Relative Humidity and temperature sensors (HTS221) 					
		 Digital Microphone sensor (MP34DT05-A) IO-Link PHY Device (L6362A) 					
		 EEPROM (M95M01-DF) for data Storage Step-down switching regulator and LDO regulator (L6984 and LDK220) 					
		 M12 industrial connector SWD connector for debugging and 					
		programming capabilityReset button					
		 Expansion connector with GPIO, ADC, I2C bus Key Features: Main supply valtages 22 V maximum 					
		 Main supply voltage: 32 V maximum STM32L071CZ microcontroller IO-Link PHY using the L6362A device for data 					
		 DC-DC converter and linear regulator on board 					
		 Integrated reverse polarity protection on L6362A ICs Multi-sensor connection 					

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		 400 kHz I²C communication PCB designed to accept real industrial sensors (8 mm x 70 mm, with 0.8 mm thickness) Designed to meet IEC industrial standard requirements RoHS compliant 					
		 Additional components: 0.050" 10-pin flat cable 4-pole cable mount connector plug, with male contacts M12 female connector with 2m cable Compatible with serial 8a 					
		or equivalent					
9	Sensor Tile development kit	 Included in the development kit package: SensorTile module (STEVAL-STLCS01V1) with STM32L476JG, LSM6DSM, LSM303AGR, LPS22HB, MP34DT05-A, BlueNRG-MS, BALF-NRG-02D3 and LD39115J18R SensorTile expansion Cradle board equipped with audio DAC, USB port, STM32 Nucleo, Arduino UNO R3 and SWD connector SensorTile Cradle with battery charger, humidity and temperature sensor, SD memory card slot, USB port and breakaway SWD connector 100 mAh Li-Ion battery Plastic box SWD programming cable or equivalent 	Any	No	26		
10	Wireless multi sensor development Kit	 Wireless multi sensor development kit with app for IoT and wearable sensor applications STEVAL-MKSBOX1V1 Compact board with the following high precision (embedded) sensors: Digital temperature sensor (STTS751) 	Any	No	11		

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			-	1		· · ·	<u> </u>
		 2) 6-axis inertial measurement unit (LSM6DSOX) 3) 3-axis accelerometers (LIS2DW12 and LIS3DHH) 4) 3-axis magnetometer (LIS2MDL) 5) Altimeter / pressure sensor (LPS22HH) 6) Microphone / audio sensor (MP23ABS1) 7) Humidity sensor (HTS221) Expert Mode with additional sensor app parameter settings Ultra-low-power ARM Cortex-M4 microcontroller with DSP and FPU (STM32L4R9) Bluetooth Smart connectivity v4.2 (SPBTLE- 1S) or equivalent 					
11	Oscilloscope	 Bandwidth: 100MHz x 2(Dual Channels) Channel: 2 Channels Max. Real-Time Sampling Rate: 1GSa/s Vertical Sensitivity: 50mV/div to 500V/div Time Base Range: 50ns/div - 10s/div Max. Testing Voltage: 40V (1 x Probes), 400V (10 x Probes) At least Storage Depth: 240Kbit Input Resistance: 1M Coupled Mode: AC/DC Trigger Function: Single, Normal, Automatic Trigger Edge: Rising Edge, Falling Edge External Trigger Voltage: 0-40V Operation Method: Screen Touch, Gesture Power Source: 6000mAh Rechargeable Battery(Included) Vibrator Size: 184mm x 124mm x 50mm/7.24" x 4.88" x 1.96" (Approx.) Also includes Probes, charger Packing List: 	Any	No	6		

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						0	
		 1 * Tablet Oscilloscope 2 * Matching 100MHz Probe (1X and 10X) 1 * USB Cable 1 * User Manual or equivalent 					
12	3D Scanner	 Professional desktop 3D scanner for generating digital 3D models from physical objects: Features: Cameras: 2 x 5 megapixel monochrome USB 3.0 cameras, 12mm lenses Scanning Software FlexScan3D Scan Speed 1.2 seconds per scan Field of View (FOV): 508mm diagonal Resolution: Average Points: 4.9 million per scan Average Polygons: 10.1 million per scan Point to Point Distance: 0.18mm Accuracy: FOV: 25µm (0.001") Standoff: 890mm Geometry Formats: PLY, OBJ, STL, ASC, FBX, 3D3 3D Scanner should Compatible with contracted MakerBot Replicator + 	Any	No	01		
13 a	Computer on Module	 iMX6 Quad 2GB CPU Name: NXP® i.MX 6Quad CPU Type: 4x Arm Cortex[™]-A9 CPU Clock: 800 MHz NEON: Yes L1 Instruction Cache: 32KB per core L1 Data Cache: 32KB per core L2 Cache: 1MB Include: Carrier Board Accessory Kit Cables: USB, Ethernet, RS232, Jumper Wires Adapters: DVI-A to VGA, HDMI to DVI-D, USB to RS232, USB Micro-A to A (USB Micro-AB 	Any	No	2		

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		receptacle to Type A), RS232 Header to D-					
		Sub, Power-adapter					
		Power Adapter: 12VDC 30W with international					
		plugs					
		2. Apalis Heatsink Type 1					
		3. LM816 USB WiFi					
		4. Analogue Camera Adapter					
		5. Apalis iMX6 Mezzanine					
		or equivalent					
13 b	Carrier Board	I/O Support	Any	No	2		
		 USB 2.0 (1x Host, 1x OTG) 					
		 USB 3.0 (2x Host) 					
		PCle (1x Mini PCle)					
		• I2C (2x)					
		• SPI (1x)					
		• UART (3x RS232)					
		• PWM (4x)					
		• GPIO (up to 40)					
		 Analog Input (4x) 					
		 Ethernet (1x 10/100/1000 Mbit) 					
		 SATA (1x mSATA) 					
		 SDIO/SD/MMC (1x 4 Bit MicroSD) 					
		 CAN (2x) 					
		 LVDS (1x Dual Channel) 					
		 S/PDIF In/Out (1x) 					
		 HDMI (1x) 					
		RGB (1x 24 Bit) Besistive Touch (4/5 wire)					
		Resistive Touch (4/5-wire)					
		Capacitive Touch connector Camera Developmental Interfaces (1)					
		Camera Parallel Interface (1x)					
		Camera Serial Interface (1x)					
		Analog Audio Line in (1x)					
		Analog Audio Mic in (1x)					
		 Analog Audio Headphone out (1x) 					
		 RTC on Board (1x) 					
		Compatible with serial 13a					

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14	DC Motor	 Voltage: DC 6V/12V Shaft diameter: 4mm Length: 12mm Encoder motor end: 11 signals Terminal connection length: 20cm Rated Voltage: DC 6V No-load Speed: 210RPM 0.13A Max Efficiency: 2.0kg.cm/170rpm/2.0W/0.60A Max Power: 5.2kg.cm/110rpm/3.1W/1.10A Stall Torque: 10kg.cm 3.2A Retarder Reduction Ratio: 1 :34 Hall Resolution: Hall x Ratio 34.02 = 341.2PPR Include: DC Gear Motor with Hall Encoder 	Any	No	4		
15	ESD Sheets	 Length:- 486' Width:- 2' Color:- Clear (transparent) 	Any	Sq feet	972 sq feet		

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Special Instructions

Description	Bio	lder	Tech Scru	tiny to be d	one by User
	Yes	No	Accepted	Rejected	Reasons of Rejection
Environment Conditions					
(a) Temperature range: 05°C to +45°C					
(b) Relative humidity: 0-70% non-condensing					
Warranty period As per IT Clause 13.					
Training Notes Supplier will provide a set of handouts for training on operation and maintenance of the equipment					
PublicationsSupplier is to provide hard and soft copies (CD) of following manuals.					
(a) Operational / Maintenance manual : - Qty 01 with Equipment and					
additional Qty 02 for record purposes and should consist of following sections:-					
(1)Equipment Description /Operation:-					
(a)Specifications					
(b)Description					
(c)Operation					
(2)Servicing:-					
(a)Maintenance Schedule					
(b)Adjustment / test (c)Removal / Installation procedure					
(d)Tools Used					
(3) Trouble shooting guide					
(b) IPB should have full parts description along with detailed diagrams					
(exploded view).					
(c) Experimental manuals which must contain the list and procedure of the					
experiments that equipment can perform.					
Spares / Technical Support					
(a) Supplier to have in-country spares / technical support and ensure spares					
and technical support / assistance for next 10 years					
(b) Comprehensive list of spares required for scheduled maintenance of					
Equipment is to be provided					

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it store
and
rep at
asures
upplier
provide

	5
 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 same equipment in Pakistan (if any). 	
(c) Equipment must be a standard product of OEM available at web address of OEM.	
(d) In case of premature failure of the equipment, OEM has to replace	
/ rectify the item free of cost. Required transportation charges would be	
borne by the supplier.	

Firm Name:	
Signature:	
Name:	
Designation:	

Annex-B

TECHNICAL OFFER

NUTECH / SCM / Computer Lab Eqpt (Ph-V) 2020 / TD-170

Fill in following essential parameters:-

- 1. Validity of Offer: _____Days (Should not be less than **90 days**)
- 2. Delivery period: _____Days (After placement of order)
- 3. Country of Origin:
- 4. Warranty Period:

<u>General</u>

- 1. GST Number: _____(Enclose Copy)
- 2. NTN / CNIC: _____(if exempted, provide valid exemption certificate)

Payment Terms (In continuation of IT Document clause 12)

In FOR Cases

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

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

Details of Foreign Principal Information with account details)

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

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:

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<u>Annex C</u>

FINANCIAL OFFER NUTECH / SCM / Computer Lab Eqpt (Ph-V) 2020 / TD-170

Ser	Part No	Item Name/Size	Specification	A/U	Qty Req	Unit Price PKR (Including Tax)	Total Price PKR (Including Tax)
1		Power Pack	 Power Pack for mini Drone: Multi-Charger to recharge up to 4 batteries AC/DC Adaptor USB Cable 2 Lipo Batteries (3.7v 300mAh 1 User Manual Power pack should be compatible with contracted programmable drone CoDrone Pro 	No	2		
2		Camera (FPV) Add-on for	Camera (FPV) Add-on for to turn your drone: into a flying HD camera (1280 x 720 resolution) • Drone body HD FPV Camera (live stream compatible) • 1 User Manual Camera (FPV) Add-on should be compatible with contracted programmable drone CoDrone Pro	No	2		
3		Drive Kit	 Drive Kit transform your Drone into a remote-controlled car: 2 Wheels, 2 Geared Motor Brackets, 2 H-Wings, 2 V-Wings, 1 Wing Bracket, 1 Wing Bracket, 1 User Manual Drive Kit should be compatible with contracted programmable drone CoDrone Pro 	No	2		
4		PICkit 4 In- Circuit Debuggert	 PICkit 4 In-Circuit Debugger/Programmer (Portable USB-powered USB 2.0, no external power required, 8-pin single in-line header, Supports 4-wire JTAG) Package contents: PICkit 4 In-Circuit Debugger/Programmer USB to micro-B USB cable Warranty card 2 PICKit 4 stickers 	No	10		

		or equivalent			
5	PLA Spools	 Large 10-Pack PLA Filament, Spool, 1.75 millimeters Diameter (Pack of 10) Sample colors: Red, Orange, Yellow, Green, Blue, Purple, White, Warm Gray, Cool Gray, and Black. PLA Spools should be compatible with contracted Makerbot Replicator+ 	Pack	4	
6	Soldering Station	 5 in 1 Comprehensive Desoldering Station SMD Maintenance Station Soldering Iron Heat Gun with Variable power supply. Item specifics: Rated Voltage:220V At Least Air Volume:250L Feature: Temperature Adjustable Feature: Temperature Digital Display Feature: Cool / Hot Air At least Rated Output Power:1600W USB ports interface Includes: Power supply plug cables with alligator clips. or equivalent 	No	5	
7	Plug&Play Industrial Edge Gateway Box and industrial sensors (Cloudrail.Box)	 From Sensor to any Cloud in < 1 Minute. Features such as Plug&Play device provisioning, smart data transformation, advanced security functions and edge computing. Package Contains: 1. Cloudrail.Box (connect over 12.000 industrial sensors to any cloud platform) 2. IO-Module for 8 Sensors / Actuators 3. Laser Distance Sensor 4. Vibration Sensor (x5) 5. RFID Reader / Writer + 2 Tags 6. Temperature Sensor 7. Adaptor for Analog (4-20mA) Sensors Power adapters and all types of cables to connect sensor, IO modules and Gateway. or equivalent 		1	

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					0	
8 a	Predictive	Solution for condition monitoring and predictive maintenance based on	No	1		
	maintenance	3D digital accelerometer, environmental and acoustic MEMS sensors				
	reference kit	Main components:				
	with sensors an	d 32-bit ARM® Cortex®-M4 core for signal processing and analysis				
	IO-Link	(STM32F469AI)				
	capability	 iNEMO 6DoF (ISM330DLC) 				
		 Absolute digital pressure sensor (LPS22HB) 				
		 Relative humidity and temperature sensors (HTS221) 				
		 Digital microphone sensors (MP34DT05-A) 				
		IO-Link PHY device (L6362A)				
		 EEPROM (M95M01-DF) for data storage 				
		 Step-down switching regulator and LDO regulator (L6984 and LDK220) 				
		 Main supply voltage: 18 V - 32 V 				
		Complete set of firmware demo examples based on 3D accelerometer				
		library with advanced frequency and time domain signal processing for				
		predictive maintenance, including:				
		 Programmable FFT size (512, 1024, 2048) 				
		 Programmable FFT averaging 				
		Programmable overlapping				
		 Programmable windowing (Flat Top, Hanning, Hamming) 				
		 Speed RMS moving average, acceleration max. peak 				
		 Programmable threshold for warning and alarm conditions in spectral band 				
		Microphone algorithms for:				
		PDM to PCM				
		Sound pressure				
		Audio FFT				
		 IO-Link PHY using the L6362A Device transceiver for data communication with host unit 				
		 M12 industrial connector 				
		 SWD connector for debugging and programming capability 				
		 Reset button 				
		 Expansion connector GPIO, ADC, I2C bus 				
		Include:				

					Page 28 of 39
		 A USB type A to mini B male cable A generic power supply (range 18 to 32 V) NUCLEO-F410RB: STM32 Nucleo 64 board with ST-LINK V2.1 incircuit debugger/programmer M12 female connector with 2m cable or equivalent 			
8 b	IO-Link master multi-port evaluation board (Master board)	 IO-Link master multi-port evaluation board. Developed to create a multi-port master d based on serial asynchronous communication to support the IO-Link protocol. Each node is equipped with an industrial M12 connector. Components: Master board USB adapter Main supply voltage 32 V maximum 4 L6360 IO-Link master devices RS-485 serial interface CAN serial interface USB interface DC-DC converter On-board reverse polarity protection Designed to meet IEC requirement for industrial standards ROHS and WEEE compliant Compatible with serial 8a 	No	1	
8 c	Industrial senso board	 Reference design for predictive maintenance with vibration, acoustic and environmental monitoring (P, RH, T) STEVAL-IDP005V1-Industrial sensor board Main supply voltage: 1832V Main components: 32-bit ARM® Cortex®-M4 core for signal processing and analysis (STM32F469AI) Sensors: iNEMO 6DoF (ISM330DLC- accelerometer and gyroscope) Absolute Digital Pressure (LPS22HB) 	No	1	

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					Page 29 of	39
		 Relative Humidity and temperature sensors (HTS221) Digital Microphone sensor (MP34DT05-A) IO-Link PHY Device (L6362A) EEPROM (M95M01-DF) for data Storage Step-down switching regulator and LDO regulator (L6984 and LDK220) M12 industrial connector SWD connector for debugging and programming capability Reset button Expansion connector with GPIO, ADC, I2C bus Key Features: Main supply voltage: 32 V maximum STM32L071CZ microcontroller IO-Link PHY using the L6362A device for data communication with host unit DC-DC converter and linear regulator on board Integrated reverse polarity protection on L6362A ICs Multi-sensor connection 400 kHz I²C communication PCB designed to accept real industrial sensors (8 mm x 70 mm, with 0.8 mm thickness) Designed to meet IEC industrial standard requirements RoHS compliant 				
		 0.050" 10-pin flat cable 4-pole cable mount connector plug, with male contacts M12 female connector with 2m cable 				
	0	Compatible with serial 8a or equivalent		00		
9	Sensor Tile development kit	 Included in the development kit package: SensorTile module (STEVAL-STLCS01V1) with STM32L476JG, LSM6DSM, LSM303AGR, LPS22HB, MP34DT05-A, BlueNRG- MS, BALF-NRG-02D3 and LD39115J18R SensorTile expansion Cradle board equipped with audio DAC, 	No	26		

Page	30	of	39
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					Page 30 of 39
		 USB port, STM32 Nucleo, Arduino UNO R3 and SWD connector SensorTile Cradle with battery charger, humidity and temperature sensor, SD memory card slot, USB port and breakaway SWD connector 100 mAh Li-lon battery Plastic box SWD programming cable or equivalent 			
10	Wireless multi sensor development Kit	 Wireless multi sensor development kit with app for IoT and wearable sensor applications STEVAL-MKSBOX1V1 Compact board with the following high precision (embedded) sensors: Digital temperature sensor (STTS751) 6-axis inertial measurement unit (LSM6DSOX) 3-axis accelerometers (LIS2DW12 and LIS3DHH) 3-axis magnetometer (LIS2MDL) Altimeter / pressure sensor (MP23ABS1) Humidity sensor (HTS221) Expert Mode with additional sensor app parameter settings Ultra-low-power ARM Cortex-M4 microcontroller with DSP and FPU (STM32L4R9) Bluetooth Smart connectivity v4.2 (SPBTLE-1S) or equivalent 	No	11	
11	Oscilloscope	 Bandwidth: 100MHz x 2(Dual Channels) Channel: 2 Channels Max. Real-Time Sampling Rate: 1GSa/s Vertical Sensitivity: 50mV/div to 500V/div Time Base Range: 50ns/div - 10s/div Max. Testing Voltage: 40V (1 x Probes), 400V (10 x Probes) At least Storage Depth: 240Kbit Input Resistance: 1M Coupled Mode: AC/DC Trigger Function: Single, Normal, Automatic Trigger Edge: Rising Edge, Falling Edge External Trigger Voltage: 0-40V 	No	6	

Page	31	of	39
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· · · · ·					1	Page 31 of 39
		 Operation Method: Screen Touch, Gesture 				
		 Power Source: 6000mAh Rechargeable Battery(Included) 				
		 Vibrator Size: 184mm x 124mm x 50mm/7.24" x 4.88" x 1.96" 				
		(Approx.)				
		 Also includes Probes, charger 				
		Packing List:				
		 1 * Tablet Oscilloscope 				
		 2 * Matching 100MHz Probe (1X and 10X) 				
		• 1 * USB Cable				
		• 1 * User Manual				
		or equivalent				
12	3D Scanner	Professional desktop 3D scanner for generating digital 3D models	No	01		
		from physical objects:				
		Features:				
		 Cameras: 2 x 5 megapixel monochrome 				
		 USB 3.0 cameras, 12mm lenses 				
		 Scanning Software FlexScan3D 				
		 Scan Speed 1.2 seconds per scan 				
		 Field of View (FOV): 508mm diagonal 				
		Resolution:				
		Average Points: 4.9 million per scan				
		Average Polygons: 10.1 million per scan				
		Point to Point Distance: 0.18mm				
		 Accuracy: FOV: 25μm (0.001") 				
		• Standoff: 890mm				
		 Geometry Formats: PLY, OBJ, STL, ASC, FBX, 3D3 				
		3D Scanner should Compatible with contracted MakerBot Replicator +				
13 a	Computer on	iMX6 Quad 2GB	No	2		
	Module	CPU Name: NXP® i.MX 6Quad				
		• CPU Type: 4x Arm Cortex™-A9				
		• CPU Clock: 800 MHz				
		NEON: Yes				
		 L1 Instruction Cache: 32KB per core 				
		 L1 Data Cache: 32KB per core 				
		 L2 Cache: 1MB 				

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			1		1	raye sz or s	<u> </u>
		 Include: 6. Carrier Board Accessory Kit Cables: USB, Ethernet, RS232, Jumper Wires Adapters: DVI-A to VGA, HDMI to DVI-D, USB to RS232, USB Micro-A to A (USB Micro-AB receptacle to Type A), RS232 Header to D-Sub, Power-adapter Power Adapter: 12VDC 30W with international plugs 7. Apalis Heatsink Type 1 8. LM816 USB WiFi 9. Analogue Camera Adapter 10. Apalis iMX6 Mezzanine 					
		or equivalent					
13 b	Carrier Board	 I/O Support USB 2.0 (1x Host, 1x OTG) USB 3.0 (2x Host) PCle (1x Mini PCle) I2C (2x) SPI (1x) UART (3x RS232) PWM (4x) GPIO (up to 40) Analog Input (4x) Ethernet (1x 10/100/1000 Mbit) SATA (1x mSATA) SDIO/SD/MMC (1x 4 Bit MicroSD) CAN (2x) LVDS (1x Dual Channel) S/PDIF In/Out (1x) HDMI (1x) RGB (1x 24 Bit) Resistive Touch (4/5-wire) Capacitive Touch connector Camera Parallel Interface (1x) Analog Audio Line in (1x) Analog Audio Mic in (1x) 	No	2			

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 Shaft diameter: 4mm Length: 12mm Encoder motor end: 11 signals Terminal connection length: 20cm Rated Voltage: DC 6V No-load Speed: 210RPM 0.13A Max Efficiency: 2.0kg.cm/170rpm/2.0W/0.60A Max Power: 5.2kg.cm/110rpm/3.1W/1.10A Stall Torque: 10kg.cm 3.2A Retarder Reduction Ratio: 1 :34 Hall Resolution: Hall x Ratio 34.02 = 341.2PPR Include: DC Gear Motor with Hall Encoder 	
14 DC Motor • Voltage: DC 6V/12V No 4 14 DC Motor • Voltage: DC 6V/12V No 4 • Shaft diameter: 4mm • Length: 12mm • Encoder motor end: 11 signals • Terminal connection length: 20cm • Rated Voltage: DC 6V • No-load Speed: 210RPM 0.13A • No-load Speed: 210RPM 0.13A • Max Efficiency: 2.0kg.cm/170rpm/2.0W/0.60A • Max Efficiency: 2.0kg.cm/110rpm/3.1W/1.10A • Stall Torque: 10kg.cm 3.2A • Retarder Reduction Ratio: 1 :34 • Hall Resolution: Hall x Ratio 34.02 = 341.2PPR Include: • DC Gear Motor with Hall Encoder 15 ESD Sheets • Length:-486' • Width:- 2' Sq 972 sq feet	
14 DC Motor • Voltage: DC 6V/12V No 4 • Shaft diameter: 4mm • Length: 12mm • Encoder motor end: 11 signals • Terminal connection length: 20cm • Rated Voltage: DC 6V • Rated Voltage: DC 6V • No-load Speed: 210RPM 0.13A • Max Efficiency: 2.0kg.cm/170rpm/2.0W/0.60A • Max Efficiency: 2.0kg.cm/110rpm/3.1W/1.10A • Stall Torque: 10kg.cm 3.2A • Retarder Reduction Ratio: 1 :34 • Hall Resolution: Hall x Ratio 34.02 = 341.2PPR Include: • DC Gear Motor with Hall Encoder 15 ESD Sheets • Length:- 486' • Length:- 2' \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
 Shaft diameter: 4mm Length: 12mm Encoder motor end: 11 signals Terminal connection length: 20cm Rated Voltage: DC 6V No-load Speed: 210RPM 0.13A Max Efficiency: 2.0kg.cm/170rpm/2.0W/0.60A Max Power: 5.2kg.cm/110rpm/3.1W/1.10A Stall Torque: 10kg.cm 3.2A Retarder Reduction Ratio: 1 :34 Hall Resolution: Hall x Ratio 34.02 = 341.2PPR Include: DC Gear Motor with Hall Encoder 15 ESD Sheets Length:- 486' Width:- 2' 	
 Length: 12mm Encoder motor end: 11 signals Terminal connection length: 20cm Rated Voltage: DC 6V No-load Speed: 210RPM 0.13A Max Efficiency: 2.0kg.cm/170rpm/2.0W/0.60A Max Power: 5.2kg.cm/110rpm/3.1W/1.10A Stall Torque: 10kg.cm 3.2A Retarder Reduction Ratio: 1 :34 Hall Resolution: Hall x Ratio 34.02 = 341.2PPR Include: DC Gear Motor with Hall Encoder Length:- 486' Width:- 2' 	
 Encoder motor end: 11 signals Terminal connection length: 20cm Rated Voltage: DC 6V No-load Speed: 210RPM 0.13A Max Efficiency: 2.0kg.cm/170rpm/2.0W/0.60A Max Power: 5.2kg.cm/110rpm/3.1W/1.10A Stall Torque: 10kg.cm 3.2A Retarder Reduction Ratio: 1 :34 Hall Resolution: Hall x Ratio 34.02 = 341.2PPR Include: DC Gear Motor with Hall Encoder 15 ESD Sheets Length:- 486' Width:- 2' 	
• Terminal connection length: 20cm • Rated Voltage: DC 6V • No-load Speed: 210RPM 0.13A • Max Efficiency: 2.0kg.cm/170rpm/2.0W/0.60A • Max Power: 5.2kg.cm/110rpm/3.1W/1.10A • Stall Torque: 10kg.cm 3.2A • Retarder Reduction Ratio: 1 :34 • Hall Resolution: Hall x Ratio 34.02 = 341.2PPR Include: • DC Gear Motor with Hall Encoder • DC Gear Motor with Hall Encoder 15 ESD Sheets • Length:- 486' • Width:- 2' • Stall	
 Rated Voltage: DC 6V No-load Speed: 210RPM 0.13A Max Efficiency: 2.0kg.cm/170rpm/2.0W/0.60A Max Power: 5.2kg.cm/110rpm/3.1W/1.10A Stall Torque: 10kg.cm 3.2A Retarder Reduction Ratio: 1 :34 Hall Resolution: Hall x Ratio 34.02 = 341.2PPR Include: DC Gear Motor with Hall Encoder 15 ESD Sheets Length:- 486' Width:- 2' 	
 No-load Speed: 210RPM 0.13A Max Efficiency: 2.0kg.cm/170rpm/2.0W/0.60A Max Power: 5.2kg.cm/110rpm/3.1W/1.10A Stall Torque: 10kg.cm 3.2A Retarder Reduction Ratio: 1 :34 Hall Resolution: Hall x Ratio 34.02 = 341.2PPR Include: DC Gear Motor with Hall Encoder Length:- 486' Width:- 2' 	
• Max Efficiency: 2.0kg.cm/170rpm/2.0W/0.60A • Max Power: 5.2kg.cm/110rpm/3.1W/1.10A • Stall Torque: 10kg.cm 3.2A • Retarder Reduction Ratio: 1 :34 • Hall Resolution: Hall x Ratio 34.02 = 341.2PPR Include: • DC Gear Motor with Hall EncoderImage: Comparison of the second seco	
 Max Power: 5.2kg.cm/110rpm/3.1W/1.10A Stall Torque: 10kg.cm 3.2A Retarder Reduction Ratio: 1 :34 Hall Resolution: Hall x Ratio 34.02 = 341.2PPR Include: DC Gear Motor with Hall Encoder Length:- 486' Width:- 2' 	
 Stall Torque: 10kg.cm 3.2A Retarder Reduction Ratio: 1 :34 Hall Resolution: Hall x Ratio 34.02 = 341.2PPR Include: DC Gear Motor with Hall Encoder Length:- 486' Width:- 2' 	
 Stall Torque: 10kg.cm 3.2A Retarder Reduction Ratio: 1 :34 Hall Resolution: Hall x Ratio 34.02 = 341.2PPR Include: DC Gear Motor with Hall Encoder Length:- 486' Width:- 2' 	
 Retarder Reduction Ratio: 1 :34 Hall Resolution: Hall x Ratio 34.02 = 341.2PPR Include: DC Gear Motor with Hall Encoder Length:- 486' Width:- 2' 	
Include: DC Gear Motor with Hall Encoder Image: Comparison of the second s	
Include: • DC Gear Motor with Hall Encoder 15 ESD Sheets • Length:- 486' • Width:- 2' feet	
Image: Strain of the strain	
• Width:- 2'	
Width:- 2' feet feet	
Color:- Clear (transparent)	
<u>Total</u>	

Firm Name:		
Signature:		
Name:		
Designation:		

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

Τo,

DD SCM Office NUTECH University I-12, 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 (N	NUTECH), IJP Roac	l, I-12, Islamabad	
Subject: <u>Advance</u>	Payment Bank	<u>Guarantee</u>		
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 <u>[Amount of Guarantee]</u> 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:

"SPECIMEN FOR BANK GUARANTEE AGAINST PERFORMANCE/WARRANTY GUARANTEE"

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,

1. Whereas your good-self have entered into Contract No__ dated_with 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"

Contract No: _____ (To be provided on stamp paper) Dated:

Validity years 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					
	Fee	b. Bank	_			
		c. Amount		_		
2	EM/ Bid Bond	a. EM/ Bid Bond ref no				
		b. Bank		_		
3	Form Annex A, A-1,	B and C signed by Authorized	Yes	No		
	Signatory					
4	Offering specification	n of items as per IT	Yes	No		
5	Quoted Currency as	per IT	Yes	No		
6	Accounting unit/Qty	as per IT	Yes	No		
7	Delivery Schedule as	s per IT	Yes	No		
8	Country of origin of store					
9	Name of OEM:					
10	0 Original Performa invoice (Mandatory) Yes					
11	1Certified that there is no Deviation from IT conditions/Yes			No		
	there is deviation from IT condition as per fol details					
12	Blacklisting certificat	e.	Yes	No		
13	Verifiable OEM Cert	ficate	Yes	No		
14	Warranty Period as	per IT	Yes	No		
15	ATPs provided		Yes	No		

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

Signature of Firm Auth Signatory