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|  | National University of Technology (NUTECH)IJP Road, Sector I-12Islamabad Telephone : 051-5476805106/SCM/NUTECH 27 January 2021 |

To: M/s

Subject: Request for Quotation**: - Comp Lab Equipment-3**

**Please provide quotation for following items. Quotes will be submitted in closed envelop and must reached to SCM Office latest by 02 February 2020 before 1200 hrs.**

|  |  |  |  |  |  |  |  |
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| **Ser** | **Item** | **Specifications** | **A/U** | **Country of Origin** | **Qty Req** | **Price/Unit** | **Total Price** |
|  | **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
 | No | Any | 4 |  |  |
|  | **Embedded System trainers board (Type 1)** | Industrial Arduino 1o1:* Processor:Atheros AR9331
* Architecture:MIPS
* Operating Voltage:3.3V
* Flash Memory:16 MB
* RAM:64 MB DDR2
* Clock Speed:400 MHz
* WiFi:802.11 b/g/n 2.4 GHz
* Ethernet:802.3 10/100 Mbit/s (Exported on headers)
* USB:2.0 Host (Exported on headers)
* Microcontroller:ATmega32u4
* Architecture:AVR
* Operating Voltage:5V
* SRAM:2.5 KB
* Clock Speed:16 MHz
* Analog I/O Pins:12 (4 exported on header)
* EEPROM:1 KB
* DC Current per I/O Pins:40 mA
* Input Voltage:5 V
* Digital I/O Pins:20 (7 exported on header)
* PWM Output:7 (2 exported on header)
* Power Consumption:130 mA
* PCB Size:42 x 51 mm
* GPIO:3 Exported on headers
* DogOLED Support:1 Exported on headers
 | No | Any | 10 |  |  |
|  | **Embedded System trainers board (Type 2)** | **Universal Programmer Tl866 ii plus USB programmer for IC SPI Flash NAND EEPROM MCU PIC AVR:*** Supports multiprogramming mode (up to four)
* Automatically identify the operating system to install
* Run under WIN XP/ VISTA/ WIN 7/ WIN 10 (32 & 64 bit)
* Overvoltage & overcurrent protection
 | No | Any | 10 |  |  |
|  | **Optical Fiber Converter Adapter** | Single Mode* SC to ST connector
* ST to LC connector

Multi Mode* ST to SC connector
* ST to LC connector
 | No | Any | 5 |  |  |
|  | **Dual Port Face Plate** | * 2 RJ45 CAT6E LAN I/O Network Keystone Jack + Gang Box + Dual Port Face Plate (Combo)
* Installation included
 | No | Any | 30 |  |  |
|  | **Impedance Analyzer for Analog Discovery** | * 2-wire impedance analyzer integrates with the impedance analyzer tool in WaveForms
* 50 pF to 500 µF capacitance measurement range
* 10 µH to 1,000 mH inductance measurement range
* 1 Hz to 15 MHz excitation frequency range
* Allows auto-scaling
* Equipped with automatically selectable reference resistances
* Compatible with the Analog Discovery Legacy, Analog Discovery 2, and Analog Discovery 2-NI Edition
 | No | Any | 6 |  |  |
|  | **BNC Adapter for Analog Discovery** | * Allows the use of standard BNC-terminated test leads & probes on Analog Discovery
* Selectable AC and DC coupling to oscilloscope probes
* Selectable 50-ohm or 0-ohm output impedance on arbitrary waveform generator (AWG) channels
* With the Discovery BNC, the differential scope inputs of the Analog Discovery become single-ended with the negative input connected to the ground.
 | No | Any | 6 |  |  |
|  |  |  | **Net Total (Without Taxes)** |  |  |
|  |  |  | **Total Taxes** |  |  |
|  |  |  | **Gross Total inclusive of all taxes** |  |  |

1. Please provide unit price of each item, Total price per item, Total price of all items without all applicable taxes and total price with all taxes.
2. Please also mention date of quote, **NTN** and **STRN** number in your quotation.
3. Delivery period will be 5 days from the day of placing order.
4. Rates shall be quoted on free delivery basis at NUTECH Islamabad.
5. Please ensure delivery within stipulated time.
6. Quotes must reach in SCM Office 2nd Floor Admin Block NUTECH Islamabad latest

 by 02 Feb 2021.

7. The same RFQ may also be available on NUTECH Website i.e https://nutech.edu.pk/downloads/procurement/rfqs/

1. **LD will be imposed as per rules**.
2. **Quotes will be opened on 02 February 2021.**
3. 100% payment will be made after successful completion of the order.

Deputy Assistant Director

Supply Chain Management Office