



**NATIONAL INSTITUTE OF ELECTRONICS**  
**Ministry of Science & Technology**  
Government of Pakistan  
17, H-9, Islamabad



**Tel: 051-9265009-13 (Ext:217)**

**Fax: 051-9265027**

**TENDER NO. 01/2018-NIE**

**USB-C TO VGA DISPLAY ADAPTER, MATLAB (SOFTWARE), WIRELESS SENSOR NETWORK PROFESSIONAL KIT, CAR PARKING OCCUPATION SENSOR, WIRELESS PARKING SPACE DETECTION SENSOR, WINEDIT (SOFTWARE) AND LAPTOP (COMPUTERS) - TEST BED DEVELOPMENT FOR ESTABLISHMENT OF WIRELESS SENSOR NETWORK (WNS) LABORATORY**

<b>S #</b>	<b>Names of Items</b>	<b>Qty</b>	<b>Unit Price</b>	<b>Total Price</b>
1	<b>USB-C to VGA Display Adapter along with standard accessories and following specifications</b>  <b>Make: HP or Equivalent</b>  <b><u>Specifications:</u></b> ➤ USB-C to VGA Display Adapter	01 No.		
2	<b>Matlab (Software) with standard accessories and following specifications</b>  <b>Make: Mathworks Or Equivalent</b> <b>Version: R2017b or Equivalent</b>  <b><u>Specifications:</u></b> ➤ License Standard. 4 user/computers in the name of NIE	01 No.		
3	<b>Wireless Sensor Networks Professional Kit with standard accessories and following specifications</b>  <b>Make: Advantic Sys OR Equivalent</b>  <b><u>Specifications:</u></b> ➤ 802.15.4 Mote Modules ➤ XM1000 – Temp., Humi. and Light sensor with 116Kb EEPROM ➤ CM5000 - Including Temp., Humi. and Light sensor ➤ CM4000 - Mote module with PCB antenna ➤ CM3300 - Mote Module with power amp. and 5dBi external antenna	01 No.		

	<ul style="list-style-type: none"> <li>➤ CM3000 - Mote Module with dipole antenna</li> <li>➤ <b>802.15.4 Sensor Boards</b></li> <li>➤ EM1000 - Temp., Humi., light and acc. Sensor</li> <li>➤ DS1000 - CO, CO2, Temp. sensor</li> <li>➤ SE1000 - PIR, Magnetic, microphone sensor</li> <li>➤ EX1000 - Sensor expansion board</li> <li>➤ <b>802.15.4 Interface Modules</b></li> <li>➤ USB1000 - USB interface board</li> <li>➤ <b>802.15.4 Network Infrastructure</b></li> <li>➤ SG1100 - 802.15.4-Ethernet data concentrator</li> </ul>			
4	<p><b>Car Parking Occupation Sensor with standard accessories and following specifications</b></p> <p><b>Make: CNDingtek OR Equivalent</b> <b>Model: DO100 OR Equivalent</b></p> <p><b><u>Specifications:</u></b></p> <ul style="list-style-type: none"> <li>➤ Model Number: DO100</li> <li>➤ Detection Range: 40cm (vertical)</li> <li>➤ Wireless: LoRa 433/868/915Mhz, 3km in view sight</li> <li>➤ Battery: 2000mAh @ 7.4V Lithium</li> <li>➤ Power Supply: 10-32V DC</li> <li>➤ Protection Level: IP68</li> <li>➤ Operating Temperature: -20 ~ +70°C</li> <li>➤ Storage Temperature: -40 ~ +85°C</li> <li>➤ Shell Material: ABS</li> </ul>	10 Nos.		
5	<p><b>Wireless Parking Space Detection sensor with standard accessories and following specifications</b></p> <p><b>Make: ROSIM OR Equivalent</b> <b>Part No. WPSD-340S</b></p> <p><b><u>Specifications:</u></b></p> <ul style="list-style-type: none"> <li>➤ 300m long range transmit</li> <li>➤ D2 detection technology</li> <li>➤ 0-150 cm detection range</li> <li>➤ 99% detection accuracy</li> <li>➤ Φ143/H37 mm small size</li> <li>➤ 7Ah 3 years battery life</li> <li>➤ Easy and fast surface mount installation</li> <li>➤ Wireless OTA remote update</li> <li>➤ All weather work condition</li> </ul>	10 Nos.		

	<ul style="list-style-type: none"> <li>➤ -40~85°C work temperature</li> <li>➤ Wireless instead of cables</li> <li>➤ With Parkview Software</li> </ul>			
6	<p><b>WinEdit (Software) with standard accessories and following specifications</b></p> <p><b>Make: Winedit OR Equivalent</b> <b>Version: 10.2 or Equivalent</b></p> <p><b><u>Specifications:</u></b></p> <ul style="list-style-type: none"> <li>➤ Site License to be issued in the name of Organization(NIE), Government</li> <li>➤ For 5 users.</li> </ul>	01 No.		
7	<p><b>Laptop(computer) with standard accessories and following specifications</b></p> <p><b>Make: HP or Equivalent</b> <b>Part No. Spectre x360 13-ae005na</b> <b>Convertible Laptop OR Equivalent</b></p> <p><b><u>Specifications:</u></b></p> <ul style="list-style-type: none"> <li>➤ Colour: Natural Silver</li> <li>➤ With Windows 10 Pro 64</li> <li>➤ Processor: Intel® Core™ i7-8550U (1.8 GHz base frequency, up to 4 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores) 8th Generation Intel® Core™ i</li> <li>➤ Dimensions: 33.8 cm (13.3") diagonal 4K IPS micro-edge WLED-backlit touch screen with Corning® Gorilla® Glass NBT™</li> <li>➤ RAM 16 GB memory</li> <li>➤ Hard drive 1TB PCIe® NVMe™ M.2 SSD</li> <li>➤ Windows Hello ready webcam</li> <li>➤ Active Pen</li> <li>➤ HP Fast Charger</li> <li>➤ Bang &amp; Olufsen Quad-Speakers</li> <li>➤ 2 x USB-C™ Thunderbolt™ ports</li> <li>➤ Fingerprint reader</li> <li>➤ Warranty: One year vendor</li> </ul>	01 No.		
8	<p><b>Wireless Data Collector with standard accessories and following specifications</b></p>	01 No.		

	<p><b>Make: ROSIM OR Equivalent</b>  <b>Part No. WDC-400 X OR Equivalent</b></p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>➤ Data collecting and processing</li> <li>➤ 300m long range communication</li> <li>➤ Connect up to 50 sensors</li> <li>➤ Ethernet/RS-232/485 data port</li> <li>➤ DHCP and DNS IP configure</li> <li>➤ AC 240V/DC9-36V/PoE power supply</li> <li>➤ L 23cm/W10cm/H4.9cm compact size</li> <li>➤ -40~85°C operating temperature</li> <li>➤ With Parkview Software</li> </ul>			
9	<p><b>Business Slim Top Load Laptop</b>  <b>Case/Bag with standard accessories</b>  <b>and following specifications:</b></p> <p><b>Make: HP OR Equivalent</b>  <b>Part No. H5M91AA OR Equivalent</b></p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>➤ Display size (diagonal)</li> <li>➤ Up to 14.1" (35.81 cm)</li> <li>➤ Weight 0.52 kg</li> <li>➤ Dimensions (W x D x H) : 27.3x38.1x4.1cm</li> <li>➤ Warranty One-year limited warranty</li> </ul>	01 No.		
10	<p><b>Multimedia Presentation Remote with</b>  <b>standard accessories and following</b>  <b>specifications</b></p> <p><b>Make: Viboton OR Equivalent</b>  <b>Part No. PP932 OR Equivalent</b></p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>➤ Material: ABS plastic</li> <li>➤ Color: black</li> <li>➤ USB-C receiver</li> <li>➤ Compatible with Windows 10</li> </ul>	01 No.		



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**TERM & CONDITIONS:**

1. Price to be quoted in Pak Rupees on (FOR) free home delivery basis.
2. As the equipment/ items to be procured are based on high tech technology therefore for competitive bidding single stage-two envelopes bidding procedure shall be adopted.
  - (i). the bid shall be comprised a single package containing two separate envelopes, containing separately **“TECHNICAL PROPOSAL”** and **“FINANCIAL PROPOSAL”**.
  - (ii). the envelope shall be marked as **“TECHNICAL PROPOSAL”** and **“FINANCIAL PROPOSAL”** in the bold and legible letters to avoid any confusion.
  - (iii). initially the envelope marked with **“TECHNICAL PROPOSAL”** shall be opened.
  - (iv). the envelope marked with **“FINANCIAL PROPOSAL”** shall be retained in the custody of NIE without being opened.
  - (v). upon evaluation of technical proposals, NIE shall publically open the financial proposal of the technically accepted bids only. The financial proposal of the bids found technically rejected shall be returned un-opened to the respective firms.
3. The bids of the firm operating from their residential address and P.O. Box number will not be considered.
4. Tender number must be specified on the left corner of the bidding envelope.
5. The rates should be valid for at least **“90”** days from the date of tender opening.
6. The offered equipment/ items must be brand new of the original manufacturer and covered under normal warranty/guarantee with necessary back-up support.
7. The bid must be supported with necessary catalogue/ brochure indicating make, model detailed specification and country of origin of the offered equipment.

8. The scope of supplies includes supply of equipment, installation, testing and commissioning of equipment and if necessary training to NIE Personnel's.
9. The financial bid should reflect at sight the following costs separately for fair comparison purpose.
  - i. Unit Price of equipment.
  - ii. GST, if applicable.
10. Conditional/ ambiguous bids will not be entertained.
11. Earnest money @ 2% of quoted prices (Refundable) must be accompanied with tender in shape of a crossed bank draft/ pay order in favour of the Director General NIE.
12. E/M of the successful bidder will be refunded upon submission of prescribe performance/ bank guarantee to NIE and the same shall be released after satisfactory completion of warranty/ guarantee period of the supplied goods.
13. The successful bidder shall provide 5% performance/ bank Guarantee of the total order value of the order to NIE for satisfactory execution of the supply order.
14. The bid found to be lowest evaluated bid shall be accepted only either overall whole tender/items base or each item wise.
15. The estimated delivery/ completion period of supplies/ work must be specified in the quotation.
16. In case of any delay in supplies of ordered items, the successful bidder shall bound to inform NIE to prior to "15" days of the ending of last date of delivery, so that necessary approval regarding extension in delivery period may be obtained from Director General NIE otherwise at the time of payment to firm a penalty @ 2% per month of the total order value will be charged from the successful bidder without any notice.
17. Tender of all items may be awarded either to a single party or can be divided among different parties depending upon their professional capabilities and competitiveness in prices individually.
18. **No advance payment will be made.**
19. NTN and GST number must be mentioned on the quotation along with providing copy of its documentary evidence, failing which bid will not be considered.
20. Payment will be made on submission of the prescribed bill in duplicate through crossed cheque after satisfactory completion of supply order and our acceptance thereof, which includes installation, testing, commissioning of the equipment and training etc. The bill presented on the letterhead of the firm will not be accepted for payment purpose.
21. As per Government Policy payment to the firm is subject to the registration of firm name in **Active Tax Payer List of FBR**, otherwise payment will be stopped till the appearance of vendor name in ATL of FBR.

22. Income Tax/ Sales Tax etc. will be deducted from bill as per Govt. Rules.
23. Last date for receipt of the tender in the Procurement Section of NIE is **March 08, 2018 up to 11:00 hours**. Technical proposals of the received firms shall be opened on the same day at **11:30 hours** in the presence of those who wish to be present. Tenders received late will not be considered in any case.
24. The Director General NIE reserves the right to accept or reject any or all tenders in part or whole, or change the quantity of tendered items as per provision of PPRA Rules.

**Inam Ullah Khan**  
**Dy. Director Procurement**  
**NIE, Islamabad**  
**Ph: 051-9265009 (Ext: 111)**