



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



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TENDER NO. 07/2019-NIE
MISC. EQUIPMENT, PARTS, COMPONENTS, TOOLS AND ACCESSORIES FOR
INTERNET OF THINGS (IOT) RF BASED INDOOR POSITIONING SYSTEM –
COMMUNICATION LAB

S. #	Name of Item	Qty	Unit Price	Total Price
1	<p>Smart Beacons with standard accessories and following specifications:-</p> <p>Make: Kontakt.io OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • Communication: Bluetooth Low Energy wireless technology 2.4GHz RF • Sensitivity: -93dBm • Bluetooth: Nordic Semiconductor nRF51822 • Data Rates: 250kBs, 1Mbs, and 2Mbs • Memory: 256KB flash 16KB RAM • Battery: 2 x 1.000mAh CR2477, Replaceable • Protection: IP-50 • Flame resistance : Safe - V0 flammability class • Protocol: Eddystone and iBeacon • Imported • Part No : SB16-2/Equivalent 	10		
2	<p>Fluke 92b Scope Meter Battery Pack with standard accessories and following specifications:-</p> <p>Make: Any reputed firm</p> <p>Specification</p> <ul style="list-style-type: none"> • Voltage: 4.8 Volts • Capacity: 3000mAh • Chemistry: Ni-MH - Nickel Metal Hydride • Terminal: 4 Wires to 6 Pin Connector 	01		
3	<p>LAN Cable Tester with standard accessories and following specifications:-</p> <p>Make: Noyafa OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • Check physical status for cat5, cat6, 5e, 6e, such as open, short, cross. • Measure cable length accurately • Calibration function and data storage • Part No : SC8108/Equivalent 	01		
4	<p>Router with standard accessories and following specifications:-</p> <p>Make: TP-LINK OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • 300Mbps wireless transmission rate 	01		

	<ul style="list-style-type: none"> • IEEE 802.11 ac/n/g/b/a wireless LAN • Easy to Set Up and Secure 			
5	<p>Optical Mouse with following specifications:</p> <p>Make: A4 Tech OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • Padless mouse • USB • 1000 DPI • Part No : N-350/Equivalent 	01		
6	<p>Bluetooth Low Energy Module with standard accessories and following specifications:-</p> <p>Make: Waveshare OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • Onboard chip: nRF51822 • Frequency range: 2.4GHz • Expansion pinheader: all the I/Os except P0.26 and P0.27 • Antenna: onboard antenna • Part No : Core51822 /Equivalent 	05		
7	<p>Bluetooth Low Energy Evaluation Kit with standard accessories and following specifications:-</p> <p>Make: Waveshare OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • Wireless module connector: for easily connecting modules like Core51822 • MCU pins expansion connector • I2C interface • SPI interface • 5V/3.3V power input/output: usually used as power output, also common-grounding with other user board • USB connector: USB TO UART via onboard convertor CP2102 • Debugging interface • UART interface • Battery holder • User LEDs • User keys • Reset button • CP2102 • USB TO UART jumper • LEDs & Keys jumper • Part No : NRF51822 Eval Kit/Equivalent 	01		
8	<p>Coin Cell with standard accessories and following specifications:-</p> <p>Make: Panasonic Battery OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • Coin Cell Battery 3V 24.5X7.7mm 1000mA • Part No : CR2477/Equivalent 	05		

9	<p>Coin Cell Holder with standard accessories and following specifications:-</p> <p>Make: MPD OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • PCB, Through Hole • Coin, 24.5mm • Compatible with Coin Cell CR2477 • Part No : BH1000G/Equivalent 	05		
10	<p>Electronics Master Kit with standard accessories and following specifications:-</p> <p>Make: Pro'sKit OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • 1PK-1700NB • Part No : 1PK-1700NB/ Equivalent 	01		
11	<p>Temperature-Controlled Soldering Stations with standard accessories and following specifications:-</p> <p>Make: Pro'sKit OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • 220V-240V 60W Temperature-Controlled Soldering Stations • Part No : SS-207H/Equivalent 	01		
12	<p>Soldering Iron with standard accessories and following specifications:-</p> <p>Make: Pro'sKit OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • Compatible with Proskit Temperature-Controlled Soldering Stations 	01		
13	<p>Soldering Iron Tips with standard accessories and following specifications:-</p> <p>Make: Pro'sKit OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • Compatible with Proskit soldering iron 	02		
14	<p>Solder Wire with standard accessories and following specifications:-</p> <p>Make: Pro'sKit OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • Rosin Core, 0.8mm diameter, flux included, 200g • Solder wire (70% tin-30% lead) 	02		
15	<p>Soldering flux paste with standard accessories:-</p> <p>Make: Pro'sKit OR Equivalent</p>	02		
16	<p>De-Soldering Sucker with standard accessories:-</p> <p>Make: Pro'sKit OR Equivalent</p>	01		
17	<p>Wire Stripper with standard accessories and following specifications:-</p>	01		

	<p>Make: Goot OR Equivalent</p> <p>Specification Part No : YS-1/Equivalent</p>			
18	<p>DC Supply with standard accessories and following specifications:-</p> <p>Make: Any Reputed Firm</p> <p>Specification</p> <ul style="list-style-type: none"> • Operating voltage = 220V • o/p voltages = 0~30V • o/p current = 0~10A • Adjustable Digital DC power supply Switching Power supply • Part No : LW-K 3010D/ Equivalent 	01		
19	<p>Digital Multi Meter with standard accessories and following specifications:-</p> <p>Make: UNI-T OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • Digital Multimeter DMM,(AC DC Volt Amp ohm Temperature Meter) • Part No : M890G/Equivalent 	01		
20	<p>Digital Clamp Multimeter with standard accessories and following specifications:-</p> <p>Make: UNI-T OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • Digital clamp multimeter dc ac current voltmeter • Part No : UT203/Equivalent 	01		
21	<p>Glue Gun with standard accessories and following specifications:-</p> <p>Make: Pro'sKit OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • 220V Operation, 100W • Part No : GK-389B / Equivalent 	01		
22	<p>Glue Gun sticks with standard accessories and following specifications:-</p> <p>Make: Any Reputed Firm</p> <p>Specification</p> <ul style="list-style-type: none"> • 10mm to 11mm 	20		
23	<p>Battery with standard accessories and following specifications:-</p> <p>Make: Power Plus OR Equivalent</p> <p>Specification</p> <ul style="list-style-type: none"> • 9 Volt 	12		
24	<p>Cable Tie pack with standard accessories and following specifications:-</p> <p>Make: Any Reputed Firm</p>	02		

	<p><u>Specification</u></p> <ul style="list-style-type: none"> Length : 4 inch 			
25	<p>Test Point Pin (Black) with standard accessories and following specifications:-</p> <p>Make: Multicomp OR Equivalent</p> <p><u>Specification</u></p> <ul style="list-style-type: none"> Material : PBT, Finish : Phosphor bronze gold plated 	50		
26	<p>Test Point Pin (Red) with standard accessories and following specifications:-</p> <p>Make: Multicomp OR Equivalent</p> <p><u>Specification</u></p> <ul style="list-style-type: none"> Material : PBT, Finish : Phosphor bronze gold plated 	50		
27	<p>IC Base with standard accessories and following specifications:-</p> <p>Make: Any Reputed Firm</p> <p><u>Specification</u></p> <ul style="list-style-type: none"> 18 pin 	50		



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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, properly sealed and with 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 OR through Inland L/C 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 **April 01, 2019 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.

SUHAIL AHMED SHAMI
Dy. Director Procurement
NIE, Islamabad
Ph: 051-9265009-13 (Ext: 131)