



TENDER NO. 02/2020-21/NIE
MISC. EQUIPMENT, PARTS, TOOLS AND ACCESSORIES FOR IOT LAB

S. No.	Descriptions	Qty	Unit Price	Total price
1.	Google Home min – Smart Speaker with standard accessories and following specifications:- Make: Google/ Equivalent <ul style="list-style-type: none">• Wireless• Part No. Home Mini	01		
2.	Flame Sensor Module with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none">• On-board LM393 voltage comparator chip and infrared sensing probe• Signal detection sensitivity can be adjusted.• Compatible with Arduino	05		
3.	DC Buzzer with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none">• 3-24 volt• Red and black wire	05		
4.	Key Pad 3x4 with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none">• 12 buttons• Plastic material• 7 pin connector	05		
5.	Transistor with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none">• 2N2222• Through hole• Part No. 2N2222	50		
6.	Transistor with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none">• 2N2222• SOT-23 package• Part No. 2N2222-STO/ 2N2223-STO	50		
7.	Transistor with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none">• BC547• Part No. BC547	50		

8.	Temperature and Humidity Sensor Module with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • Compatible with Arduino • Part No. DHT11 	05		
9.	Temperature and Humidity Sensor with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • Compatible with Arduino • Part No. DHT22 	05		
10.	Ultrasonic Sensor Module with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • Compatible with Arduino • Part No. HC-SRO4 	05		
11.	IR Obstacle Avoidance Sensor Module with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • IR sensor • Range: 2-40 cm • Compatible with Arduino 	05		
12.	Arduino Water Level Sensor Module with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • Operating volt : 3- 5 v 	02		
13.	Light Sensitive Sensor with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • LDR / photo resistor • 20mm 	50		
14.	Soil Moisture Sensor Module with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • FC-28 with potentiometer • Compatible with Arduino • Part No. FC-28 	05		
15.	Motion Sensor Module with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • PIR Sensor Module • Part No. HC-SR501 	05		
16.	Gas Sensor Module with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • Compatible with Arduino • Part No. MQ-2 	05		

17.	Gas Sensor Module with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • Compatible with Arduino • Part No. MQ-5 	05		
18.	OLED Display Module with standard accessories and following specifications:- Make: Any Reputed Firm Part No. SH1106	02		
19.	LCD with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • 16X1 • Monochromatic 	05		
20.	LCD with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • 16X2 • Monochromatic 	05		
21.	LCD with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • 20X4 • Monochromatic 	05		
22.	LCD Interfacing I2C with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • I2C interface 	10		
23.	Solenoid Door Lock with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • Door Locking • Operating Volt 12v • Tapered shaft 	02		
24.	Sensors Shield with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • Arduino Sensor Shield V5.0 • Compatible to Arduino Uno 	02		
25.	Camera with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • Compatible with Arduino • Part No. OV7670 	02		
26.	RTC Module with standard accessories and following specifications:- Make: Any Reputed Firm	02		

	<ul style="list-style-type: none"> Compatible with Arduino Part No. DS1307 			
27.	Arduino Uno with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> Arduino Uno REV3 With Cable 	03		
28.	IC ATmega 328 with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> ATmega 328 	05		
29.	Power Module with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> Rated output voltage: 12V DC Part No. HLK-5M12 	20		
30.	ESP-12F with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> ESP-12F Serial WIFI Wireless Module 	10		
31.	ESP – 12F Burn Board System with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> Compatible with ESP-12F Micro-USB interface 	02		
32.	Relay with following specifications:- Make: OMRON OR Equivalent <ul style="list-style-type: none"> 20A SPDT Miniature Size PCB Mount Coil voltage : Upto 12V 	10		
33.	Relay with following specifications:- Make: OMRON OR Equivalent <ul style="list-style-type: none"> 15A SPDT Miniature Size PCB Mount Coil voltage : Upto 12V 	10		
34.	Relay with following specifications:- Make: OMRON OR Equivalent <ul style="list-style-type: none"> 10A SPDT Miniature Size PCB Mount Coil voltage : Upto 12V 	10		

35.	Relay with following specifications:- Make: OMRON OR Equivalent <ul style="list-style-type: none"> • 5A • SPDT • Miniature Size • PCB Mount • Coil voltage : Upto 12V 	20		
36.	Screw Terminal Block with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • 3 pin • PCB mount 	10		
37.	Terminal Block with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • 3 pin • 90 degree • PCB mount 	10		
38.	Fuse with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • 5A • Cartridge glass • Fast acting 	10		
39.	Fuse with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • 10A • Cartridge glass • Fast acting 	10		
40.	Fuse with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • 15A • Cartridge glass • Fast acting 	10		
41.	Fuse with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • 20A • Cartridge glass • Fast acting 	10		
42.	Fuse Holder with following specifications: Make: Any Reputed Firm <ul style="list-style-type: none"> • Compatible with 10A/5A fuse • PCB mount/Through hole • Fuse holding cap 	20		

43.	Fuse Holder Clip with following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> Compatible with 10A/5A fuse PCB mount/Through hole 	20		
44.	Fuse Holder with following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> Compatible with 20A/15A fuse PCB mount/Through hole Fuse holding cap 	20		
45.	Fuse Holder Clip with following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> Compatible with 20A/15A fuse PCB mount/Through hole 	20		
46.	Male to Female Jumper Wire with following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> 40 wires 	05		
47.	Male to Male Jumper Wire with following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> 40 wires 	05		
48.	Resistor with following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> 10k Ohm 	100		
49.	Resistor with following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> 330 Ohm 	100		
50.	Resistor with following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> 1k Ohm 	100		
51.	Voltage Regulator with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> 5V DC Through Hole Part No. LM7805 	20		
52.	Vero Board with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> 4''X10'' size Separate dots 	10		
53.	Raspberry Pi LCD with standard accessories and following specifications:- Make: Any Reputed Firm	01		

	<ul style="list-style-type: none"> • Size: 7 Inch • HDMI • Touch LCD • Including complete accessories 			
54.	<p>Raspberry Pi 4 B Kit with standard accessories and following specifications:-</p> <p>Make: Any Reputed Firm</p> <ul style="list-style-type: none"> • Raspberry Pi 4 B model • Pi 4Casing • Pi4 16 GB SanDisk memory card • Pi4 power supply • Heat sink 	02		
55.	<p>Electrical Extension Board with following specifications:-</p> <p>Make: Any Reputed Firm</p> <ul style="list-style-type: none"> • Export Quality • Length : 3 Meter 	02		
56.	<p>HDMI to VGA Adapter with standard accessories and following specifications:-</p> <p>Make: Any Reputed Firm</p> <ul style="list-style-type: none"> • HDMI to VGA female 	02		
57.	<p>Male Header with following specifications:-</p> <p>Make: Any Reputed Firm</p> <ul style="list-style-type: none"> • 40 Pin • 0.1 inch spacing 	10		
58.	<p>Female Header with following specifications:-</p> <p>Make: Any Reputed Firm</p> <ul style="list-style-type: none"> • 40 Pin • 0.1 inch spacing 	20		
59.	<p>Three Pin Multi Plug with standard accessories and following specifications:-</p> <p>Make: Any Reputed Firm</p> <ul style="list-style-type: none"> • G type input • Multi output plug 	05		
60.	<p>LED Magnifier Lamp with standard accessories and following specifications:-</p> <p>Make: Any Reputed Firm</p> <ul style="list-style-type: none"> • 10X zoom • Part No. LT-86A 	01		
61.	<p>LED for Circuit (Red Colour)</p> <p>Make: Any Reputed Firm</p>	50		
62.	<p>LED for Circuit (Blue Colour)</p> <p>Make: Any Reputed Firm</p>	50		
63.	<p>LED for Circuit (Green Colour)</p> <p>Make: Any Reputed Firm</p>	50		
64.	<p>Heat shrink Tubes Kit with standard accessories and following specifications:-</p> <p>Make: Any Reputed Firm</p>	01		

	<ul style="list-style-type: none"> • 7 Colours • 9 Sizes • 392pcs 			
65.	<p>Potentiometer with standard accessories and following specifications:-</p> <p>Make: Any Reputed Firm</p> <ul style="list-style-type: none"> • 1K • PCB Mount 	10		
66.	<p>USB Data Cable with following specifications:-</p> <p>Make: Any Reputed Firm</p> <ul style="list-style-type: none"> • USB to OTG 	02		
67.	<p>Soldering Fumes Absorber with standard accessories and following specifications:-</p> <p>Make: Any Reputed Firm</p> <ul style="list-style-type: none"> • Purify soldering fumes 	01		
68.	<p>Solder Wire with following specifications:-</p> <p>Make: Proskit OR Equivalent</p> <ul style="list-style-type: none"> • 250gram • Part No. 8PK-033A-L 	05		
69.	<p>Component Rack with standard accessories and following specifications:-</p> <p>Make: Akro-Mils OR Equivalent</p> <ul style="list-style-type: none"> • 24 drawers or close • 5'X5' drawer size or close • Black frame • Transparent drawer 	01		
70.	<p>Circuit Board Holder with standard accessories and following specifications:-</p> <p>Make: Any Reputed Firm</p> <ul style="list-style-type: none"> • Solid Base • 360° rotation • 200 mm wide PCB board holder • For PCB soldering and assembly 	01		
71.	<p>Small Form Factor PC System with standard accessories and following specifications:-</p> <p>Make: HP Or Equivalent</p> <ul style="list-style-type: none"> • Generation 7th • Core i5 • Hard drive: 500GB • RAM: 8GB • WiFi supported • Windows 10 pro licenced • Standard accessories 	01		
72.	<p>HDMI Display with standard accessories and following specifications:-</p> <p>Make: HP OR Equivalent</p> <ul style="list-style-type: none"> • 23.8 '' • LED Display • HBMI Supported • Standard accessories 	02		

73.	<p>PC System with standard accessories and following specifications:-</p> <p>Make: HP OR Equivalent</p> <ul style="list-style-type: none"> • Core i5 6th generation • 1 TB hard drive • 8GB RAM • Windows 10 Life time • Wifi supported • Standard accessories 	01		
74.	<p>PC System with standard accessories and following specifications:-</p> <p>Make: HP OR Equivalent</p> <ul style="list-style-type: none"> • Core i3 6th generation • 500 GB hard drive • 4GB RAM • Windows 10 Life time • Wifi supported • Standard accessories 	01		
75.	<p>Electrical Board with two bulb holders with following specifications:-</p> <p>Make: Any Reputed Firm</p> <ul style="list-style-type: none"> • Screw type bulb holders • Enclosed with screw tight base 	04		
76.	<p>LED Bulb with following specifications:-</p> <p>Make: Philips OR Equivalent</p> <ul style="list-style-type: none"> • 10 W to 15W • Screw type base • Yellow Light 	04		
77.	<p>LED Bulb with following specifications:-</p> <p>Make: Philips OR Equivalent</p> <ul style="list-style-type: none"> • 10 W to 15W • Screw type base • White Light 	04		
78.	<p>Toner for LaserJet Printer M1132 MFP</p> <p>Make: HP OR Equivalent</p>	01		
79.	<p>Line Interactive Power Supply for PC with standard accessories and following specifications:-</p> <p>Make: APC OR Equivalent</p> <ul style="list-style-type: none"> • 650VA • Line-interactive • Pure sine wave • Output :Universal sockets 	02		
80.	<p>PCB Cleaner Liquid with brush having following specifications:-</p> <p>Make: Any Reputed Firm</p> <ul style="list-style-type: none"> • Isopropyl Alcohol liquid for PCB cleaning • Compatible brush 	01		
81.	<p>Wireless Keyboard & Mouse Combo with standard accessories and following specifications:-</p>	01		

	Make: Ligitech OR Equivalent <ul style="list-style-type: none"> • Wireless Keyboard • Wireless Mouse • Part No. MK235 			
82.	Diaphragm Pump Soldering and Hot Air Station with standard accessories and following specifications:- Make: YIHUA OR Equivalent <ul style="list-style-type: none"> • Adjustable temperature control • Part No. 852 	05		
83.	Screw with Nut with following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • Size: M3 • Length: 1Inch • Pan head thread forming screw 	50		
84.	VGA Male to HDMI Cable with standard accessories and following specifications:- Make: Any Reputed Firm <ul style="list-style-type: none"> • Length 1 meter 	02		
85.	RF & Wifi 8 Gang Wall Touch Switch - CRYSTAL SERIES with standard accessories and following specifications:- Make: OKASHA OR Equivalent <ul style="list-style-type: none"> • 8 Gang switch • Wifi & RF supported • Part No. OS-C-RF-8G-49 	01		
86.	Wifi Power Extension Universal with standard accessories and following specifications:- Make: OKASHA OR Equivalent <ul style="list-style-type: none"> • Wifi & RF supported • Part No. OS-PEU-31 	01		
87.	15A Universal Smart Plug - 3 PIN with following specifications:- Make: OKASHA OR Equivalent <ul style="list-style-type: none"> • Wifi & RF supported • 15 A • Part No. OS-USP-316-20 	01		
88.	Coin Cell Battery with standard accessories and following specifications:- Make: PANASONIC OR Equivalent <ul style="list-style-type: none"> • 3V • 24.5X7.7mm • 1000mA • Part No. CR2477 	20		
89.	Wifi Card for PC with standard accessories and following specifications:- Make: TP-Link OR Equivalent <ul style="list-style-type: none"> • 150 Mbps • Wireless N • PCIE Adapter • Part No. TL-WN781ND 	02		



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TERM & CONDITIONS:

1. Price to be quoted in Pak Rupees on (FOR) free home delivery basis.
2. The scope of supplies includes supply of equipment, installation, testing and commissioning of equipment and training of NIE Personnel's, if required.
3. The bid must be supported with necessary catalogue/ brochure indicating make, model detailed specification and country of origin of the offered software.
4. The bid should reflect at sight the following costs separately for fair comparison purpose.
 - i. Unit Price of equipment.
 - ii. GST, if applicable.
5. Conditional/ ambiguous bids will not be entertained.
6. Earnest money @ 2% of quoted prices (Refundable) must accompany the tender in shape of a crossed bank draft/ pay order in favour of the Director General NIE. Earnest Money of the successful bidder will be refunded after satisfactory completion of supply order.
7. The bids of the firm operating from P.O. Box number will not be considered.
8. Tender number must be specified on the left corner of the tender envelope.
9. The rates should be valid for at least "90" days from the tender opening date.
10. The offered equipment/ items must be brand new of the original manufacturer and covered under normal warranty/guarantee with necessary back-up support.
11. The estimated delivery/ completion period of supplies/ work must be specified in the quotation.
12. In case of late delivery/ completion in supplies/ work, a penalty @ 2% per month of the total order value will be charged from the successful bidder without any notice.
13. The bid found to be lowest evaluated bid shall be accepted on the basis of cost comparison, tender specifications and fulfilling the requirement of the end-user.
14. Tender of all works 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.
15. The earnest money of the rejected firms shall be returned in due course of time.
16. Quantity of the order items can be increased or decreased.
17. NIE. If required may ask the successful bidder to provide 5% Bank Guarantee for satisfactory execution of the supply order.
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 after satisfactory completion of supply order and our acceptance thereof. 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 **November 05, 2020 up to 11:00 hours**. Tenders will 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.

Muhammad Umair Habib
Dy. Director Procurement
NIE, Islamabad
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