



राष्ट्रीय प्रौद्योगिकी संस्थान आंध्रप्रदेश  
NATIONAL INSTITUTE OF TECHNOLOGY ANDHRA PRADESH  
Near National Highway No. 216A, Kadakatla, Tadepalligudem – 534101  
West Godavari District, Andhra Pradesh

Ref. No.: NITANP/SMMD/TENDER/2025-26/69

Date: 12-01-2026

## TENDER ENQUIRY

**Sub: - Supply of “Various Electronic Components For B. Tech Laboratories” at NITANP  
Quotation invited – Reg.**

Please send your lowest quotation for the above work/supply as per the specifications/ requirements mentioned in **Annexure-1**. The lowest quotation must be submitted in the given format (**Annexure-1 along with necessary documents as specified and duly abiding to the important instructions**), failing which bid shall be treated as Unresponsive. The quotation is to be sent in a sealed envelope to the following address:

**C/o Tender Box  
Material Management & Disposal Section (006, Ground Floor)  
Sardar Vallabhbai Patel Administrative Building  
National Institute of Technology Andhra Pradesh,  
Near National Highway No. 216A, Kadakatla,  
Tadepalligudem – 534101  
West Godavari District, Andhra Pradesh.**

**The quotation has to be sent by Post (Ordinary / Register / Speed Post) or drop in Tender Box physically. (Any other mode will not be accepted)**

The envelope must be superscribed as “**QUOTATION**” at the center of the envelope and the above **reference number at left top** along with the **Subject of the tender** on the envelope.

Please note that, the bid envelope received without the above-mentioned superscription **shall be treated as UNRESPONSIVE**.

The last date to receive the sealed envelope with quotation is **02.02.2026**

Annexure-1

Name of the Item: Supply of Various Electronic Components For B. Tech Laboratories at NITANP.

Sl. No.	Name of goods	Description of goods	Quantity	Unit Cost in Rs.	Amount in Rs.
1.	Breadboards (Transparent)	<ul style="list-style-type: none"> <li>▪ 830 Solder-less Points</li> <li>▪ Distribution Holes: 200</li> <li>▪ Terminal Holes: 630</li> <li>▪ Ideal for Experimenting with Circuit Design in Labs</li> <li>▪ Compatible with resistance, diodes, transistors, LED's, Capacitors and other types of electronic components</li> <li>▪ Completely reusable</li> <li>▪ Colored coordinates for easy components placement.</li> <li>▪ Phosphor bronze nickel-plated spring clips.</li> <li>▪ Accept a variety of wire sizes 20-29 AWG</li> <li>▪ Material: ABS</li> </ul>	90		
2.	Wire bundle single stand - Blue	<ul style="list-style-type: none"> <li>▪ Conductor Type- Solid Core (Single Strand)</li> <li>▪ Gauge (AWG) - 23 AWG</li> <li>▪ Conductor Material - Tinned Copper</li> <li>▪ Max Current Rating - Approximately 2.2 A</li> </ul>	2		
3.	Wire bundle single stand - Black	<ul style="list-style-type: none"> <li>▪ Used for Bread board, Electronic Lab Purpose, Electronic Project</li> <li>▪ High-Temperature Resistance, Low Temperature Resistance, Anti-acid And Alkali, Fire and Aging Resistance, The In oxidizability, Resistance of Humidity, The Fine Electric Insulation and Flexible Performance</li> </ul>	2		
4.	Wire bundle single stand - Red		2		
5.	Wire bundle single stand - Green		2		
6.	LED's - Red	<ul style="list-style-type: none"> <li>▪ Electronic efficiency should be at least 85 %.</li> <li>▪ Long Life: LEDs can last over 100,000 hours.</li> <li>▪ Low power consumption</li> </ul>	50		
7.	LED's - Green		50		
8.	Male to Male jumper wires	<ul style="list-style-type: none"> <li>▪ Connector Type: Male to Male</li> <li>▪ Type: 1 × 20 cm male to male breadboard connecting wires</li> <li>▪ Jumper Wire Size: 26 AWG</li> <li>▪ Current Rating: Up to 1 A</li> <li>▪ Easy to plug in and remove</li> <li>▪ Flexible, durable, and reusable</li> </ul>	200		

9.	BNC to Crocodile Probes (1X:10X)	<ul style="list-style-type: none"> <li>▪ Bandwidth: 100MHz</li> <li>▪ Rise time: 3.5ns</li> <li>▪ Attenuation Ratio: 1X and 10X</li> <li>▪ Input Resistance: 1 MΩ / 10MΩ±2%</li> <li>▪ Input Capacitance: 1X: 85pF ~ 135pF / 10X: 16 ~ 20 pF</li> <li>▪ Maximum Input: 1X: 300 Working voltage (Vpp) / 10X: 600 Working Voltage (V p-p)</li> <li>▪ Compensation Range: 10pF ~ 35pF</li> <li>▪ Operating Environment: -10C ~ +50C / 0 ~ 85% Relative Humidity</li> <li>▪ Tip Locating Sleeve: 2</li> <li>▪ Adjustment Tool: 1</li> </ul>	20		
<b>Resistors in Half Watt</b>		<ul style="list-style-type: none"> <li>▪ Power Rating: 0.5 Watts (1/2 W).</li> <li>▪ Tolerance: Typically, ±5%, but can be 1%.</li> <li>▪ Resistor Type: Usually Carbon Film (CFR).</li> <li>▪ Max Voltage: Around 250V to 350V.</li> <li>▪ Temperature Range: -55°C to +155°C (approx.).</li> <li>▪ Highly Reliable Resistor</li> <li>▪ ±1% Tolerance</li> <li>▪ Package: Axial</li> <li>▪ Mounting Feature: Through-hole</li> <li>▪ Composition: Carbon Film Type</li> <li>▪ Excellent Heat and Humidity Withstand Performance</li> <li>▪ Long Life</li> </ul>			
10.	82Ω		100		
11.	220Ω		100		
12.	1kΩ		100		
13.	1.5kΩ		100		
14.	2.2kΩ		100		
15.	2.7kΩ		100		
16.	3.3kΩ		100		
17.	4.7kΩ		100		
18.	5.6kΩ		100		
19.	6.8kΩ		100		
20.	10kΩ		200		
21.	15kΩ		100		
22.	22kΩ		100		
23.	33kΩ		100		
24.	47kΩ		100		
25.	68kΩ		100		
26.	100kΩ		100		
27.	220kΩ		100		
28.	1MΩ	100			
<b>Capacitors</b>		<ul style="list-style-type: none"> <li>▪ Good Quality</li> <li>▪ Voltage Rating (Max continuous DC/AC voltage)</li> <li>▪ Tolerance (e.g., ±20%) showing deviation from nominal value.</li> </ul>			
29.	0.1μF		100		
30.	0.01μF		100		
31.	1μF		100		
32.	4.7μF		100		
33.	10μF		100		
34.	100μF		100		
35.	0.001μF		50		
36.	0.47μF		50		
37.	10 pf		50		
38.	33 pf		50		
39.	39 pf		50		
40.	390 pf		50		
41.	Digital DC Ammeter	<ul style="list-style-type: none"> <li>▪ Measurement Range: DC 0 to 100mA (Milliampere).</li> </ul>	10		

	(0-100mA)	<ul style="list-style-type: none"> <li>▪ Display: LED (Red, Blue) or LCD</li> <li>▪ Accuracy: <math>\pm 1\%</math> or <math>\pm 2\%</math> (or better, e.g., <math>\pm 0.1\text{mA}</math> for high precision).</li> <li>▪ Resolution: 1mA or 0.1mA, depending on the model.</li> <li>▪ Refresh Rate: Fast (10 times/sec or <math>\sim 500\text{ms}</math>) for quick reading.</li> <li>▪ Current Consumption (Meter): Very low (e.g., <math>&lt; 2\text{VA}</math> or <math>\sim 60\text{mA}</math> for display power).</li> <li>▪ Over-Range Display: Shows 'H' or similar for currents exceeding 100mA.</li> <li>▪ Physical Size: Compact, designed for panel mounting.</li> <li>▪ Features: Polarity indication</li> <li>▪ Ammeter with Three pin AC Power Cord - 230V AC</li> </ul>			
42.	Digital DC Ammeter (0-100 $\mu\text{A}$ )	<ul style="list-style-type: none"> <li>▪ Current Measuring Range: 0 to 100 <math>\mu\text{A}</math></li> <li>▪ Accuracy: Typically, around <math>\pm 1\%</math> (<math>\pm 1</math> digit) or better, depending on the model.</li> <li>▪ Resolution: Often 0.1 <math>\mu\text{A}</math> or 1 <math>\mu\text{A}</math>.</li> <li>▪ Display Type: Usually a 7-segment LED or LCD</li> <li>▪ Operating Voltage (Auxiliary Power): Common</li> <li>▪ Operating Current (Consumption): Generally low, often less than 20mA or 60mA.</li> <li>▪ Input Resistance (Internal Resistance): Typically ranges from 100<math>\Omega</math> to 2k<math>\Omega</math>.</li> <li>▪ Refresh Rate: Approximately 300ms to 500ms per measurement cycle.</li> <li>▪ Temperature: Usually <math>-10^{\circ}\text{C}</math> to <math>65^{\circ}\text{C}</math>.</li> <li>▪ Humidity: 10% to 80% RH (non-condensing).</li> <li>▪ Physical Dimensions: Often compact, with common panel</li> <li>▪ Features: Polarity indication</li> <li>▪ Ammeter with Three pin AC Power Cord - 230V AC</li> </ul>	15		
43.	Digital DC Ammeter (0-20mA)	<ul style="list-style-type: none"> <li>▪ Measurement Range: 0-20mA DC (Direct Current).</li> <li>▪ Accuracy: Often around (<math>\pm 0.2\% + 1</math> digit) or better, depending on the model.</li> <li>▪ Display: LED (Red, Blue, or dual), 3.5 to 4.5 digits for resolution.</li> <li>▪ Resolution: High, often down to 0.0001mA (100<math>\mu\text{A}</math>) or 0.001mA (1mA), with auto decimal point selection.</li> <li>▪ Input Type: Direct DC current measurement.</li> <li>▪ Overload Protection</li> <li>▪ Operating Temperature: <math>0^{\circ}\text{C}</math> to <math>55^{\circ}\text{C}</math>.</li> <li>▪ Features: Polarity indication</li> <li>▪ Ammeter with Three pin AC Power Cord 230V AC.</li> </ul>	10		

44.	BFW10 (JFET)	<ul style="list-style-type: none"> <li>▪ BFW10/11 (JFET) Drain-Source Voltage 30V</li> <li>▪ Drain Current 20mA</li> <li>▪ Power Dissipation 300mW</li> <li>▪ Operating range -65°C to 150°C</li> </ul>	50		
45.	BC107 (Transistor)	<ul style="list-style-type: none"> <li>▪ Voltage - Collector Emitter Breakdown 45 V (Max)</li> <li>▪ V<sub>CE</sub> Saturation (Max) 600mV</li> <li>▪ DC Current Gain (hFE) 110</li> </ul>	20		
46.	BC547 (Transistor)	<ul style="list-style-type: none"> <li>▪ The BC547 transistor features a gain range of 110 to 800.</li> <li>▪ The maximum collector current it can handle is 100mA.</li> <li>▪ P<sub>tot</sub> (Power Dissipation): Max power the transistor can dissipate as heat (often at 25°C)</li> </ul>	100		
47.	1N4007 (Diodes)	<ul style="list-style-type: none"> <li>▪ Maximum Repetitive Peak Reverse Voltage (V<sub>RRM</sub>): 1000V</li> <li>▪ Peak Forward Surge Current (I<sub>FSM</sub>): 30A (non-repetitive)</li> <li>▪ Forward Voltage (V<sub>F</sub>): ~0.7V</li> <li>▪ Reverse Leakage Current (I<sub>R</sub>): 5μA @ Rated Voltage</li> <li>▪ Power Dissipation (P<sub>D</sub>): 3W</li> <li>▪ Operating Temperature (T<sub>J</sub>): -55°C to +150°C (or 175°C for some)</li> </ul>	100		
48.	Germanium Diodes	<ul style="list-style-type: none"> <li>▪ Forward voltage drop (~0.2-0.4V)</li> <li>▪ Higher reverse leakage than silicon; key specs include ~45-60V Peak Inverse Voltage, ~50mA average forward current, and operate in the -55°C to +75°C range</li> </ul>	15		
49.	1kΩ potentiometers	<ul style="list-style-type: none"> <li>▪ Resistance Range: in K Ohm</li> <li>▪ Resistance Tolerance: ±5%</li> <li>▪ Power Rating: 1 Watt</li> <li>▪ Angle of Rotation: 265° + 15°</li> <li>▪ End Resistance: 0.2Ω or 0.02% whichever is greater</li> <li>▪ Working Voltage: 250VDC</li> <li>▪ Insulation Resistance: 200MΩ @ 500VD</li> </ul>	10		
50.	10kΩ potentiometers		10		

51.	47k $\Omega$ potentiometers	<ul style="list-style-type: none"> <li>▪ Wire Wound Potentiometer</li> </ul>	10		
52.	Zener Diode 4.7V	<ul style="list-style-type: none"> <li>▪ Nominal Zener Voltage (<math>V_z</math>): 4.7V</li> <li>▪ Power dissipation (<math>P_z</math>): 1300mW (practically 500mW)</li> <li>▪ Zener regulator current (<math>I_{zm}</math>): 193mA</li> </ul>	25		
53.	Zener Diode 5.1V	<ul style="list-style-type: none"> <li>▪ Nominal Zener Voltage (<math>V_z</math>): 5.1V</li> <li>▪ Power dissipation (<math>P_z</math>): 1300mW (practically 500mW)</li> <li>▪ Zener regulator current (<math>I_{zm}</math>): 890mA</li> <li>▪ 11-watt Zener diode</li> </ul>	25		
54.	Zener Diode 8.2V	<ul style="list-style-type: none"> <li>▪ Nominal Zener Voltage (<math>V_z</math>): 8.2V</li> <li>▪ Power dissipation (<math>P_z</math>): 1300mW (practically 500mW)</li> <li>▪ Zener regulator current (<math>I_{zm}</math>): 550mA</li> <li>▪ 6-watt Zener diode</li> </ul>	25		
55.	Zener Diode 12V	<ul style="list-style-type: none"> <li>▪ Nominal Zener Voltage (<math>V_z</math>): 12V</li> <li>▪ Power dissipation (<math>P_z</math>): 1300mW (practically 500mW)</li> <li>▪ Zener regulator current (<math>I_{zm}</math>): 380mA</li> <li>▪ 22-watt Zener diode</li> </ul>	25		
56.	IC 741	<ul style="list-style-type: none"> <li>▪ The UA741CP is a general-purpose operational amplifier in 8 pin DIP package.</li> <li>▪ Offset voltage null capability; Large common mode and differential voltage range; Frequency compensation and latch up are not required.</li> <li>▪ Gain bandwidth product of 1MHz.</li> <li>▪ Supply voltage range from <math>\pm 5V</math> to <math>\pm 15V</math>.</li> <li>▪ Slew rate at unity gain is <math>0.5V/\mu s</math>.</li> <li>▪ Input offset voltage of 1mV at <math>T_A = 25^\circ C</math>.</li> <li>▪ Input bias current of 80nA at <math>T_A = 25^\circ C</math>.</li> <li>▪ Common mode rejection ratio (CMRR) of 70dB at <math>T_A = 25^\circ C</math>.</li> <li>▪ Operating temperature range from <math>0^\circ C</math> to <math>70^\circ C</math>.</li> </ul>	100		
57.	IC 555	<ul style="list-style-type: none"> <li>▪ Supply voltage/Current: 5V to 16V / 3 to 6 mA</li> <li>▪ Output current: 200mA, Power dissipation: 600mW</li> <li>▪ Precision timing, Turn-off time less than 2 <math>\mu s</math>,</li> <li>▪ Accurate time delays and oscillation of Astable or Monostable operation</li> <li>▪ TTL-Compatible Output Can Sink or Source up to 200 mA</li> </ul>	50		
58.	IC 723	<ul style="list-style-type: none"> <li>▪ 151 mA Output Current Without External Pass Transistor</li> <li>▪ Output Currents in Excess of 10A Possible by Adding External Transistors</li> <li>▪ Input Voltage 40V Max</li> <li>▪ Output Voltage Adjustable from 2V to 37V</li> <li>▪ Can be Used as Either a Linear or a Switching Regulator</li> </ul>	10		

59.	IC 7400 NAND	<ul style="list-style-type: none"> <li>▪ Standard Logic Levels: Typically operates at recognized TTL (Transistor-Transistor Logic) voltage levels, often powered by a +5V supply.</li> <li>▪ High-Speed Operation: Esteemed for swift performance, it suits applications necessitating expeditious signal processing.</li> <li>▪ Compact Package: Conventionally packaged in a standard 14-pin DIP (Dual In-Line Package) format.</li> <li>▪ Low Power Consumption: Additionally exhibits frugal power consumption, making significant contributions to energy-efficient electronic systems.</li> </ul>	60		
60.	IC 7404 Hex NOT gate	<ul style="list-style-type: none"> <li>▪ IC have Six Inverting Gates</li> <li>▪ Supply voltage, VCC 5v to 7v</li> <li>▪ Application: cleaning up a noisy signal, adding small delay, level shifting, converting between logic families, or as an analogue amplifier.</li> <li>▪ Hex inverters can also be constructed with bipolar transistors to improve processing speed.</li> </ul>	60		
61.	IC 7410 Triple 3-input NAND gate	<ul style="list-style-type: none"> <li>▪ Triple 3-Input NAND Gates: Three independent NAND gates in one package.</li> <li>▪ High-Speed CMOS Technology: Ensures fast switching with low power consumption.</li> <li>▪ Wide Operating Voltage Range: 2V to 6V for versatile applications.</li> <li>▪ TTL-Compatible Inputs: Easily interfaces with TTL logic. Low Power Dissipation: Efficient power usage for minimal heat generation.</li> <li>▪ Compact 14-Pin Package: Optimized for PCB integration.</li> </ul>	80		
62.	IC 7432 Quad 2-input OR gate	<ul style="list-style-type: none"> <li>▪ The 74LS32 is a Dual Input OR Gate with Quad package.</li> <li>▪ It contains four independent gates each of which performs the logic OR function. Each gate has two inputs that's why it is named Quad 2-Input OR Gate.</li> </ul>	60		
63.	IC 7486 Quad 2-input XOR gate	<ul style="list-style-type: none"> <li>▪ The 74HC86N is a quad 2-input exclusive-OR Gate with high-speed Si-gate CMOS devices that comply with JEDEC standard no-7A. The pin is compatible with low-power Schottky TTL (LSTTL).</li> <li>▪ Logic Family / Base Number: 74HC86; Logic Type: XOR; Output Current: 5.2mA.</li> <li>▪ No. of Inputs: 2; Supply Voltage Min: 2V; Supply Voltage Max: 6V.</li> <li>▪ Logic IC Family: 74HC; Logic IC Base Number: 7486.</li> </ul>	60		

64.	IC 7402 Quad 2-input NOR gate	<ul style="list-style-type: none"> <li>▪ The 7402 is a high-speed quad 2-input NOR Gate. The device logic gates utilize silicon-gate CMOS technology to achieve operating speeds similar to LSTTL gates with the low power consumption of standard CMOS integrated circuits. This device has the ability to drive 10 LSTTL loads.</li> <li>▪ Buffered inputs, 7ns Propagation delay, Balanced propagation delay and transition times, Significant power reduction compared to LSTTL logic ICs, 30% High noise immunity.</li> <li>▪ Logic Family / Base Number: 74HC02, Logic Type: NOR, Output Current: 5.2mA, No. of Inputs: 2, Supply Voltage Min: 2V, Supply Voltage Max: 6V.</li> <li>▪ No. of Pins: 14Pins, Logic IC Family: 74HC, Logic IC Base Number: 7402.</li> </ul>	60		
65.	IC 7408 Quad 2-input AND gate	<ul style="list-style-type: none"> <li>▪ Quad 2-Input AND Gates: Four independent AND gates in one package.</li> <li>▪ High-Speed CMOS Technology: Ensures fast switching with low power consumption.</li> <li>▪ Wide Operating Voltage Range: 2V to 6V for versatile applications.</li> <li>▪ TTL-Compatible Inputs: Easily interfaces with TTL logic.</li> <li>▪ Low Power Dissipation: Efficient power usage for minimal heat generation. Compact 14-Pin Package: Optimized for PCB integration.</li> </ul>	60		
66.	IC 7483 4-bit Parallel Adder	<ul style="list-style-type: none"> <li>▪ The 74LS83 is a high speed 4-bit full adder IC with carry out feature. The IC has four independent stages of full adder circuits in a single package. It is commonly used in applications where arithmetic operations are involved.</li> <li>▪ 4-bit Full Adder with Carry Out. Nominal Operating Voltage: 5V</li> <li>▪ Maximum Operating Voltage: 5.5V. Output Propagation delay: 16nS.</li> <li>▪ Maximum Input Low Voltage: 0.8V. Minimum Input High Voltage: 2V.</li> </ul>	60		
67.	IC 74153 Dual 4-to-1 Multiplexer	<ul style="list-style-type: none"> <li>▪ Dual 4-to-1 Multiplexer: Selects between four data inputs for each of the two outputs.</li> <li>▪ Wide Operating Voltage Range: 2V to 6V for flexible applications. TTL-Compatible Inputs: Can interface with TTL logic levels. Compact 16-Pin Package: Space-efficient for PCB integration.</li> <li>▪ Technology Family: HC (High-Speed CMOS) Supply Voltage (VCC): 2V to 6V Input Voltage (VIN): 0V to 6V</li> <li>▪ Propagation Delay: 14ns (typical at 5V) Output Type: Standard CMOS</li> <li>▪ Output Operating Temperature Range: -40°C to +85°C &amp; Package Type: 16-pin PDIP</li> </ul>	60		

68.	IC 74139 Demultiplexer	<ul style="list-style-type: none"> <li>▪ 3-to-8 Decoder/Demultiplexer: Converts a 3-bit binary input into eight active-low outputs.</li> <li>▪ High-Speed CMOS Technology: Ensures fast operation with low power consumption.</li> <li>▪ Three Enable Inputs: Provides flexibility for cascading multiple devices.</li> <li>▪ Wide Operating Voltage Range: 2V to 6V for various applications. TTL-Compatible Inputs: Easily interfaces with TTL logic.</li> <li>▪ Compact 16-Pin Package: Space-efficient for PCB integration.</li> </ul>	20		
69.	IC 74151 8-to-1 Multiplexer	<ul style="list-style-type: none"> <li>▪ Wide Operating Voltage Range of 2 V to 6 V; Outputs Can Drive Up To 10 LSTTL Loads</li> <li>▪ Low Power Consumption, 80-<math>\mu</math>A Max ICC; Typical tpd = 13 ns</li> <li>▪ Output Drive at 5 V; Low Input Current of 1 <math>\mu</math>A Max</li> <li>▪ 8-Line to 1-Line Multiplexers Can Perform as: Boolean-Function Generators; Parallel-to-Serial Converters; Data Source Selectors</li> </ul>	20		
70.	IC 7476 Dual JK flip-flop with preset and clear	<ul style="list-style-type: none"> <li>▪ Two independent flip-flops with J, K, Clock, Set, and Clear inputs.</li> <li>▪ Transfers input data to outputs during HIGH-to-LOW clock transition.</li> <li>▪ High-speed switching performance.</li> <li>▪ Operates at temperatures up to 700C.</li> <li>▪ Uses standard TTL switching voltage levels.</li> </ul>	40		
71.	IC 7474 Dual D flip-flop with preset and clear	<ul style="list-style-type: none"> <li>▪ 74LS74 IC-D-type Flip-Flop-Dual-Positive Edge-Triggered/ 74HCT74D 7474 IC Flip-Flop/Complementary Output, Positive Edge, 74HCT74, D, 15 ns, 59 MHz, 4 Ma pack of 8</li> <li>▪ High power and current handling capability</li> <li>▪ Max Supply Voltage: 7V</li> <li>▪ DM74LS74AN / DM74LS74A / 74LS74 Dual Positive-Edge-Triggered D Flip-Flops with Preset, Clear and Complementary Outputs</li> </ul>	40		
72.	IC 7490 Decade Counter	<ul style="list-style-type: none"> <li>▪ Logic Family / Base Number: 74LS90</li> <li>▪ Counter Type: Decade</li> <li>▪ Clock Frequency: 42MHz</li> <li>▪ Maximum Count: 9</li> <li>▪ No. of Pins: 14Pins.</li> <li>▪ Supply Voltage Min: 4.75V</li> <li>▪ Supply Voltage Max: 5.25V</li> <li>▪ Logic IC Family: 74LS</li> </ul>	40		
73.	IC 7495 4-bit Shift Register	<ul style="list-style-type: none"> <li>▪ Supply Voltage: 4.5 ~ 5.5VDC</li> <li>▪ Synchronous, Expandable Shift Right</li> <li>▪ Synchronous Shift Left Capability</li> <li>▪ Synchronous Parallel Load</li> <li>▪ Separate Shift and Load Clock Inputs</li> <li>▪ Operating Ambient Temperature Range: - 55 ~ 125°C</li> <li>▪ Package: DIP-14</li> </ul>	20		

74.	IC 7447 BCD to 7- Segment Decoder/Driver	<ul style="list-style-type: none"> <li>▪ Inputs and outputs are entirely compatible for use with TTL logic outputs.</li> <li>▪ Supply Voltage: 5-7V</li> <li>▪ Input Voltage: 5-7V</li> <li>▪ Drive indicator segments directly</li> <li>▪ Operating free-air temperature range: 0°C ~ +70°C</li> <li>▪ Storage temperature range: -65°C ~ +150°C</li> </ul>	5		
75.	Duracell Batteries (AAA)	<ul style="list-style-type: none"> <li>▪ Voltage-1.5 Volts</li> <li>▪ 2X Longer Lasting</li> </ul>	30		
76.	Duracell Batteries (9V)	<ul style="list-style-type: none"> <li>▪ Voltage- 9Volts</li> <li>▪ 2X Longer Lasting</li> </ul>	20		
77.	Tweezers	<ul style="list-style-type: none"> <li>▪ Square tip for safe and precise application</li> <li>▪ Slant flat tip</li> <li>▪ Non-slip grip for a perfect hold</li> <li>▪ Tipa are hand polished</li> </ul>	2		
78.	Screw Driver Set	<ul style="list-style-type: none"> <li>▪ Set of 5 Blades - 6.0x8mm, 3.5x0.5mm, Phillips 0, Square Poker, Phillips 1, 1 Extension Rod and handle with Neon Bulb</li> <li>▪ Made Out of High-Grade Steel and Transparent Green Cellulose Acetate Handle</li> <li>▪ Handle is Made from High Grade C. A. Plastic is Non-Flammable and Unaffected by Oil Petrol, Grease and Water</li> <li>▪ Conforming to IS 844-1979</li> <li>▪ This does not include wear and tear of the products, does not apply to any springs or lever that may be present.</li> </ul>	1		
79.	Soldering Mat 2 Feet x 3 Feet	<ul style="list-style-type: none"> <li>▪ SD Safe Antistatic Mat 2 Layer Blue Size</li> <li>▪ ESD safe mats are mats made of conductive material that are designed to protect electronic equipment from electrostatic discharge (ESD)</li> <li>▪ ESD safe mats are made using different materials, such as rubber, conductive rubber, and conductive vinyl</li> <li>▪ Using Mat Also Home Office Industrial and Service Centre ETC</li> </ul>	2		

80.	Glue guns	<ul style="list-style-type: none"> <li>▪ Attains full operating Temperature within seconds</li> <li>▪ 100 watt Glue Gun</li> <li>▪ Comes with 5 Glue Sticks</li> <li>▪ Strong and Reliable</li> <li>▪ High quality &amp; Durable Element</li> </ul>	2		
			<b>Sub total</b>		
			<b>GST</b>		
			<b>Grand Total</b>		

**The Firm/ Bidder must submit the following documents along with the Quotation, failing which the bid shall be treated as UNRESPONSIVE:**

1. Certificate of GST Registration.
2. Authorisation Certificate from the Original Equipment Manufacturer (Proprietary Article Certificate (PAC) cases & wherever essential).
3. Copy of the tender document and enclosures with Bidder's signature and seal.
4. Company incorporation Certificate relevant to want of experience in the tender document.

**Important Instructions:**

1. L1 will be identified based on the consolidated quoted price if otherwise not specified in the bid document.
2. The quotation should not contain any handwritten text except the Price quoted.
3. Rates should be clearly quoted against each item.
4. The quotation shall be valid for a minimum period of 90 Days from the closing date of the Bid.
5. The price quoted should be F.O.R. Destination (including Freight, insurance, loading, unloading at specific locations in the premises of NIT Andhra Pradesh).
6. The Bidder shall inscribe the Tender reference number and Tender Subject on the bid envelope submitted to the Institute.
7. Please note that the Director reserves the right to modify or alter the specifications and to reject any or all the Quotations without assigning any reasons thereto.
8. The Institute is not responsible for delays/loss in postal transit or due to any other reasons regarding timely receipt of the bid.



**Sd/-  
Associate Dean, P&D (SMMD)**

सह अधिष्ठाता / Associate Dean  
CENTRAL STORES & PURCHASE SECTION  
NIT Andhra Pradesh

