



ASTI-FM 03-10
REV 4/ 9 MAR 2022

**DOST-ASTI Bids and Awards Committee
REQUEST FOR QUOTATION**

Kind of Procurement Activity:	Negotiated Procurement:Small-value Procurement		
Deadline of Submission of Bids:	Jul-05-2023, 2:00 PM		
RFQ No.:	23-06-4425	Date:	June-29-2023
PR No.:	GAA-23-06-16945	Date:	June-02-2023

The Department of Science and Technology (DOST) - Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), intends to procure the enlisted item/s below. Bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, except otherwise specified in the requirements. Award may be considered for prospective bidder/s proven to be the single/lowest calculated and responsive quotation among all other quotations. Guidelines on the format of quotations and eligibility documents are listed below. Kindly follow the prescribed GUIDELINES to avoid DISQUALIFICATION.

Quotations may be submitted 1) manually to the BAC Secretariat at G/F DOST-ASTI Bldg., UP Technology Park Complex, CP Garcia Ave., UP Campus, Diliman, Quezon City or 2) sent via electronic mail at bac-sec@asti.dost.gov.ph. For further information, please contact the BAC Secretariat at +63 2 8249-8500 loc. 1206/1212.

Thank you.

BAYANI BENJAMIN R. LARA
BAC Chairperson

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<p>Onboard Charger</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. The Advanced Science and Technology Institute (ASTI) is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Pieces Onboard Charger, to be used in the prototyping of Electronic Vehicle Conversion (EVCon).</p> <p>1.2. The approved budget for the contract (ABC) is inclusive of all applicable government fees, taxes, and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Nominal voltage: 48V</p> <p>2.2. Output voltage range: 18-66V</p> <p>2.3. Output current maximum: 25A</p> <p>2.4. Compatible with LifePo4 battery</p> <p>2.5. Output Power: 1.65kW ~ 1.8 kW</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of Notice to Proceed (NTP) at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	2	pc	25000.00	50,000.00

2	<p>DC-DC Converter</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Sets DC-DC Converter, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. 12 Volts @ 300 Watts, 24 Amps</p> <p>2.2. Light load 13.5 Volts</p> <p>2.3. Operating Temperature: -25C to +55C</p> <p>3. PACKAGE INCLUSION</p> <p>3.1. Two (2) sets - DC-DC Converter, which includes the following per set:</p> <p>3.1.1. One (1) pc - DC-DC Converter</p> <p>3.1.2. One (1) pc - User's Manual</p> <p>4. PAYMENT AND DELIVERY TERMS:</p> <p>4.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>4.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	2	set	27500.00	55,000.00
3	<p>Throttle Control</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery Two (2) Pieces of Throttle Control, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Compatible with Curtis Controller</p> <p>2.2. 2 wire and 3 wire design compatible</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	2	pc	17500.00	35,000.00
4	<p>Charging Socket</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Pieces Charging Socket, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Socket Type 2 male (IEC 62196-2)</p> <p>2.2. Maximum current: 32A</p> <p>2.3. Maximum voltage: 250 / 400V (3phase)</p> <p>2.4. Maximum charging power: 22 kW</p> <p>2.5. Operating temperature range: -30C to + 50C</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be</p>	2	pc	11000.00	22,000.00

	processed once completely delivered, inspected, and accepted by the end-user.				
5	<p>Charger Set</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of One (1) Set Charger Set, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Power Single Phase: 2kW, 8 Amp</p> <p>2.2. Operating Temperature: -25°C to +55°C</p> <p>2.3. Plug type: Type 2</p> <p>2.4. For E-Vehicle use</p> <p>2.5. Warranty: Two (2) years</p> <p>3. PACKAGE INCLUSION</p> <p>3.1 One (1) set - Charger Set</p> <p>3.1.1. One (1) pc - Charger</p> <p>3.1.2. One (1) pc - User's Manual</p> <p>4. PAYMENT AND DELIVERY TERMS:</p> <p>4.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>4.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	1	set	42000.00	42,000.00
6	<p>3.2V 6000MAH Rechargeable Lithium Phosphate Battery Cell</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Four hundred (400) Pieces 3.2V 6000mAH Rechargeable Lithium Phosphate Battery Cell, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Capacity: 3.2V 6Ah</p> <p>2.2. Application: EV</p> <p>2.3. Energy: 19.2Wh</p> <p>2.4. Cycle life: >3000 cycles@1C 100% DOD</p> <p>2.5. Recommend Charge Current: 1.5A</p> <p>2.6. Max. Charge Current: 6A</p> <p>2.7. Max. Continuous Discharge Current: 6A</p> <p>2.8. Max. Pulse Current: 12A(10S)</p> <p>2.9. Discharge Cut-off Voltage: 2.5V</p> <p>2.10. With Rivet Included</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within ninety (90) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	400	pc	295.00	118,000.00
7	<p>Arc and Mig Welding Machine</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of One (1) Set Arc</p>	1	set	12000.00	12,000.00

	<p>and Mig Welding Machine, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Voltage: 1 phase 220V+-15%</p> <p>2.2. Rated Input Current (A)</p> <p>2.3. MIG: 49A</p> <p>2.4. TIG:37A</p> <p>2.5. MMA: 54A</p> <p>2.6. MIG Output current (A): 30-300</p> <p>2.7. TIG Output Current (A): 10-300</p> <p>2.8. MMA Output Current (A): 20-300</p> <p>2.9. Output Voltage</p> <p>2.10. MIG: 15.5 - 29V</p> <p>2.11. TIG: 20.8 - 32V</p> <p>2.12. MMA: 10.6 - 22V</p> <p>2.13. Duty cycle: 60%</p> <p>2.14. Power Factor: 0.73</p> <p>2.15. Efficiency: 85 %</p> <p>2.16. Wire Machine: Compact</p> <p>2.17. Wire Speed: 2-13 m/min</p> <p>2.18. Post puff: 1s</p> <p>2.19. Wire Wheel Diameter: 150mm</p> <p>2.20. Wire diameter</p> <p>2.21. MIG Flux: 0.8 - 1.0mm</p> <p>2.22. TIG: 1-2mm</p> <p>2.23. MMA: 1.6 - 3.2mm</p> <p>2.24. Warranty: Six (6) Months Service Warranty</p> <p>3. PACKAGE INCLUSION</p> <p>3.1 One (1) set - Arc and Mig Welding Machine</p> <p>3.1.1. One (1) pc - Arc and Mig Welding Machine</p> <p>3.1.2. One (1) pc - Electrode Holder</p> <p>3.1.3. One (1) pc - Ground Clamp</p> <p>3.1.4. One (1) pc - MIG Torch Assembly</p> <p>4. PAYMENT AND DELIVERY TERMS:</p> <p>4.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>4.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>				
8	<p>Battery Charger</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of One (1) Set Battery Charger, to be used in pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Input Voltage (V): 220 - 240</p> <p>2.2. Frequency (Hz): 50/60</p> <p>2.3. Charging Voltage(V): 12/24</p> <p>2.4. Input power (W): 1,000</p> <p>2.5. Effective current (A): 45</p> <p>2.6. Average current (A): 30</p> <p>2.7. Protection fuse (A): 50</p> <p>3. PACKAGE INCLUSION</p> <p>3.1. One (1) set - Battery Charger</p> <p>3.1.1. One (1) pc - Battery Charger</p>	1	set	7000.00	7,000.00

	<p>3.1.2. One (1) pc - User's Manual</p> <p>4. PAYMENT AND DELIVERY TERMS:</p> <p>4.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>4.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>				
9	<p>Welding Rods</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Five (5) Boxes Welding Rods, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. - Size: 3/32"(2.4 mm)</p> <p>2.2. 2.5kg per box</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	5	box	300.00	1,500.00
10	<p>High Voltage Gloves</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Pairs High Voltage Gloves, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Insulating gloves that provide voltage protection.</p> <p>2.2. Type/Material: Leather</p> <p>2.3. Size: Big</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	2	pair	600.00	1,200.00
11	<p>Goggles</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Eight (8) Pieces Goggles, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. A type of personal protective equipment that is worn on the eye for its protection</p> <p>2.2. Material: PC</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg.,</p>	8	pc	175.00	1,400.00

	MIRDC Compound, Bicutan, Taguig City. 3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.				
12	<p>Gear Lubricant</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of One (1) Bottle Gear Lubricant, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. A lubricant is made specifically for transmissions, transfer cases, and differentials in automobiles, trucks, and other machinery.</p> <p>2.2. Pour Point (C): -15</p> <p>2.3. Flash Point (C): 180</p> <p>2.4. Viscosity:</p> <p>1 mm²/s @ 40°C: 359</p> <p>2 mm²/s @ 100°C : 26.0</p> <p>2.5. Viscosity Index: 96</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	1	btl	650.00	650.00
13	<p>Wires - Red (Automotive)</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of One (1) Roll Wires - Red (Automotive), to be used in pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Pieces of metal that transport electricity.</p> <p>2.2. Core Diameter (mm): 0.32</p> <p>2.3. Thickness (sq): 0.85</p> <p>2.4. Length (m): 100</p> <p>2.5. Number of Cores: 11</p> <p>2.6. Allowable Current (A): 16A</p> <p>2.7. Applicable Power: 16A</p> <p>2.8. Color: Red</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	1	roll	7990.00	7,990.00
14	<p>Wires - Black (Automotive)</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of One (1) Roll Wires - Black (Automotive), to be used in pretotyping</p>	1	roll	7990.00	7,990.00

	<p>of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Pieces of metal that transport electricity.</p> <p>2.2. Core Diameter (mm): 0.32</p> <p>2.3. Thickness (sq): 0.85</p> <p>2.4. Length (m): 100</p> <p>2.5. Number of Cores: 11</p> <p>2.6. Allowable Current (A): 16A</p> <p>2.7. Applicable Power: 16A</p> <p>2.8. Color: Black</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>				
15	<p>Crimp Terminals (Blue)</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Packs Crimp Terminals (Blue), to be used in pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Overall Length (mm): 21.3</p> <p>2.2. Stud diameter (Φmm): 3.7</p> <p>2.3. Mass (g): 30</p> <p>2.4. Type: Crimp terminal with insulation coating</p> <p>2.5. Terminal Shape: Y type</p> <p>2.6. 20 pcs per pack</p> <p>2.7. AWG: 16 to 14</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	2	pack	800.00	1,600.00
16	<p>Crimp Terminals (Red)</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Packs Crimp Terminals (Red), to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Overall Length (mm): 20.5</p> <p>2.2. Stud diameter (Φmm): 3.7</p> <p>2.3. Mass (g): 30</p> <p>2.4. Type: Crimp terminal with insulation coating</p> <p>2.5. Terminal Shape: Y type</p> <p>2.6. 25 pcs per pack</p> <p>2.7. AWG: 16 to 14</p> <p>3. PAYMENT AND DELIVERY TERMS:</p>	2	pack	800.00	1,600.00

	<p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>				
17	<p>Welding Mask</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Pieces Welding Mask, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Material: PP</p> <p>2.2. Color: Black</p> <p>2.3. Type: Worn on the head</p> <p>2.4. Lens Holder: Flip-up</p> <p>2.5. Length Size: 108 x 51 mm (4 1/4" x 2")</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	2	pc	600.00	1,200.00
18	<p>LED Flashlight (Work Light)</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Four (4) Pieces LED Flashlight (Work Light), to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. LED Type: 1 x Chip type white LED</p> <p>2.2. Light Output: 130 lm (High Mode)</p> <p>2.3. Battery type: 3 x AAA Alkaline Batteries</p> <p>2.4. Runtime: 5.5h (High Mode) / 40h Eco Mode)</p> <p>2.5. Lighting Technique: Wide Beam</p> <p>2.6. Beam Distance: 130m</p> <p>2.7. Waterproof (IPX4)</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	4	pc	1500.00	6,000.00
19	<p>Feeler Gauge</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Pieces Feeler Gauge, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Tool used to measure gap widths</p>	2	pc	190.00	380.00

	<p>2.2. Size/Blades: 26 different blades/sizes</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>				
20	<p>Universal Socket Adapter</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces Universal Socket Adapter, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Voltage: 250 V</p> <p>2.2. Current: 10A</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	10	pc	85.00	850.00
21	<p>Degreaser</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Five (5) Pieces Degreaser, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Cleaning agent used to dissolve grease and oil from hard surfaces</p> <p>2.2. Type: Multi-purpose</p> <p>2.3. Nozzle type: Spray</p> <p>2.4. Case: Metal</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	5	pc	600.00	3,000.00
22	<p>Metal Drill Bits</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Sets Metal Drill Bits, to be used in the pretotyping of EVCon.</p> <p>1.2. The approved budget for the contract is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Cutting tools used in a drill to remove material to create holes.</p>	2	set	11000.00	22,000.00

	<p>2.2. Set Type: Jobber Drill Set</p> <p>2.3. Minimum Size: 1mm</p> <p>2.4. Maximum Size: 13mm</p> <p>2.5. Drilling Application: Metal</p> <p>2.6. Material: HSS</p> <p>2.7. Point Angle: 118degrees</p> <p>3. PACKAGE INCLUSION</p> <p>3.1. Two (2) sets - Metal Drill Bits, which includes the following per set:</p> <p>3.1.1. Twenty Five (25) pcs - Metal Drill Bits</p> <p>3.1.2. One (1) pc - Metal Drill Bits Casing</p> <p>4. PAYMENT AND DELIVERY TERMS:</p> <p>4.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>4.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>				
23	<p>ARM M7 Microcontroller</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Pcs ARM M7 Microcontroller, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Core Processor: ARM® Cortex®-M7</p> <p>2.2. Core Size: 32-Bit</p> <p>2.3. Speed: 528 Mhz</p> <p>2.4. Peripherals: DMA, I²S, LCD, PWM, WDT</p> <p>2.5. Program Memory Size: 128KB (128K x 8)</p> <p>2.6. Program Memory Type: ROM</p> <p>2.7. Package: 169 - LFBGA</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	2	pc	1250.00	2,500.00
24	<p>ARM M7 Evaluation Board</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Sets ARM M7 Evaluation Board, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Audio</p> <p>2.1.1. WM8960 stereo audio codec</p> <p>2.1.2. 4-pole audio headphone + microphone jack</p> <p>2.1.3. External speaker connection points</p> <p>2.1.4. Microphone</p> <p>2.1.5. S/PDIF connector</p> <p>2.1.6. Audio expansion connector</p> <p>2.2. Board Memory:</p>	2	set	7950.00	15,900.00

	<ul style="list-style-type: none"> 2.2.1. 256 Mb SDRAM memory 2.2.2. 64 Mb QSPI Flash 2.2.3. TF socket for SD card 2.3. Connectivity <ul style="list-style-type: none"> 2.3.1. MURATA Type 1XK Ultra Small Dual band Wi-Fi 11a/b/g/n + Bluetooth 5.2 Module powered by NXP IW416 2.3.2. Micro USB host and OTG connectors 2.3.3. Ethernet (10/100 M) PHY and RJ45 connector 2.3.4. CAN/CAN-FD transceiver 2.4. Debug Capabilities: <ul style="list-style-type: none"> 2.4.1. LPC-Link2 debug high speed USB probe with VCOM port 2.4.2. J-Link firmware option 2.4.3. SWO trace support 2.4.4. JTAG/SWD debug connector to allow debug of target microcontroller using an external probe 2.5. Expansion Connectors: <ul style="list-style-type: none"> 2.4.1. Arduino UNO R3 expansion header 2.4.2. MikroE Click expansion header 2.4.3. I2C expansion connector 2.5.4. Audio expansion connector 2.6. Processor: MIMXRT1042xj M5B processor 2.7. Sensors: NXP FXLS8974CF: ±2g/±4g/±8g/±16g, Low-Power 12-Bit Digital IoT Accelerometer 2.8. User Interface: <ul style="list-style-type: none"> 2.8.1. Parallel LCD display connector 2.8.2. Wake up / User button 2.8.3. User LED 3. PACKAGE INCLUSION <ul style="list-style-type: none"> 3.1 Two (2) set - ARM M7 Evaluation Board, which includes the following per set: <ul style="list-style-type: none"> 3.1.1. One (1) pc - ARM M7 Evaluation Board 3.1.2. One (1) pc - User's Manual 4. PAYMENT AND DELIVERY TERMS: <ul style="list-style-type: none"> 4.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City. 4.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user. 				
25	<p>Electric Drive Motor</p> <p>1. GENERAL OVERVIEW:</p> <ul style="list-style-type: none"> 1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Pieces Electric Drive Motor, to be used in the pretotyping of EVCon. 1.2. The ABC is inclusive of all applicable government fees, taxes and other charges. <p>2. TECHNICAL SPECIFICATIONS</p> <ul style="list-style-type: none"> 2.1. Used for the transformation of electrical power into mechanical energy. 2.2. Nominal voltage: 24 to 48 VDC 2.3. Maximum speed: 5000 2.4. Max continuous flow: 80A 2.5. Max peak current: 220A for 1 minute 2.6. Max torque: 38Nm <p>3. PAYMENT AND DELIVERY TERMS:</p> <ul style="list-style-type: none"> 3.1. Delivery must be done within sixty (60) 	2	pc	48800.00	97,600.00

	<p>calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>				
26	<p>Cordless Impact Driver</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of One (1) Set Cordless impact Driver, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Hand-held tool used to easily drive screws</p> <p>2.2. RPM: 0 - 850 / 0 - 2,000 / 0 - 2,900 / 0 - 2,900 (Assist)</p> <p>2.3. IPM: 0 - 4,000</p> <p>2.4. Torque: Up to 2,200 in-lbs.</p> <p>2.5. Collet: 1/4" Hex</p> <p>2.6. Battery capacity: 2Ah</p> <p>2.7. Voltage rating: 18VDC</p> <p>2.8. Warranty: three (3) year lifetime warranty</p> <p>3. PACKAGE INCLUSION</p> <p>3.1 One (1) set - Cordless Impact Driver</p> <p>3.1.1. One (1) pc - Cordless Impact Driver</p> <p>3.1.2. One (1) pc - Cordless Impact Driver Battery</p> <p>3.1.3. One (1) pc - Battery Charger</p> <p>4. PAYMENT AND DELIVERY TERMS:</p> <p>4.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>4.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	1	set	12000.00	12,000.00
27	<p>Industrial Automatic Air Line Hose Reel</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of One (1) Piece Industrial Automatic Aire Line Hose Reel, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. A hose capable of delivering high pressure air from the air compressor to the pneumatic tool housed in a housing with retractable function for easy deployment and storage.</p> <p>2.2. Size: 15m/50ft</p> <p>2.3. Working pressure: 10 bar/150 psi</p> <p>2.4. Max working pressure: 300 psi</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	1	pc	7700.00	7,700.00
28	<p>Gloves</p>	16	pair	128.00	2,048.00

	<p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Sixteen (16) Pairs Gloves, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. A covering for the hand worn for protection against cold or dirt and typically having separate parts for each finger and the thumb.</p> <p>2.2. Size: XL</p> <p>2.3. Type: Latex gloves</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>				
29	<p>Angle Grinder Cutting Disc</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Twenty-Five (25) Pieces Angle Grinder Cutting Disc, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Used as a cutting material</p> <p>2.2. Size/Diameter: 5 inches</p> <p>2.3. Thickness: 6 mm</p> <p>2.4. Must be compatible with Makita angle grinder</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	25	pc	110.00	2,750.00
30	<p>Bench Grinder Disc (Grit 60)</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of One (1) Piece Bench Grinder Disc (Grit 60), to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Used as a cutting material</p> <p>2.2. Diameter: 8 inches</p> <p>2.3. Thickness: 19 mm</p> <p>2.4. Bore: 15.88 mm</p> <p>2.5. Grit: 60</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and</p>	1	pc	1250.00	1,250.00

	accepted by the end-user.				
31	<p>Bench Grinder Disc (Grit 120)</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of One (1) Piece Bench Grinder Disc (Grit 120), to be used in the prototyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Used as a cutting material</p> <p>2.2. Diameter: 8 inches</p> <p>2.3. Thickness: 19 mm</p> <p>2.4. Bore: 5/8 mm</p> <p>2.5. Grit: 120</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	1	pc	1850.00	1,850.00
32	<p>Tabbing Wire for 32700 LiFePo4 Battery</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Reels Tabbing Wire for 32700 LifePo4 Battery, to be used in the prototyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. A flat copper wire is used to connect cells together to produce desired voltage and current configurations.</p> <p>2.2. Width: 8mm</p> <p>2.3. Thickness: 0.15mm</p> <p>2.4. Length: 1m</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	10	reel	225.00	2,250.00
33	<p>32700/32650 Battery Holder</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two hundred eighty (280) Pairs 32700/32650 Battery Holder, to be used in the prototyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. It provides perfect spacing for cells and snap the together for battery pack assembly.</p> <p>2.2. Must be suitable to 32700/32650 batteries/cells.</p> <p>2.3. Material: Plastic</p> <p>2.4. Color: Black</p>	280	pair	25.00	7,000.00

	<p>2.5. Size 3X: 103.3*34.4*10mm</p> <p>2.6. Diameter: 32.4mm</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>				
34	<p>Linear Voltage Regulator 5V</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Linear Voltage Regulator 5V, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Electronic components are used to maintain a constant voltage.</p> <p>2.2. Voltage - Input (Max): 30V</p> <p>2.3. Voltage - Output (Min/Fixed): 5V</p> <p>2.4. Current - Output: 100mA</p> <p>2.5. Current - Quiescent (Iq): 5.5 mA</p> <p>2.6. Current - Supply (Max): 6 mA</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	10	pc	50.00	500.00
35	<p>8MHz 10pF Crystal</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces 8MHz 10pF Crystal, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. An electric oscillator type circuit that uses a piezoelectric crystal as its frequency-determining element.</p> <p>2.2. Frequency: 8 MHz</p> <p>2.3. Frequency Stability: ± 10ppm</p> <p>2.4. Frequency Tolerance: ± 10ppm</p> <p>2.5. Load Capacitance: 10pF</p> <p>2.6. ESR (Equivalent Series Resistance): 200 Ohms</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	10	pc	65.00	650.00
36	<p>Green, Red Indication LED</p> <p>1. GENERAL OVERVIEW:</p>	10	pc	40.00	400.00

	<p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces Green, Red Indication LED, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Used as a light indicator to reveal the status of an electronic device.</p> <p>2.2. Color: Green, Red</p> <p>2.3. Configuration: Common Cathode</p> <p>2.4. Lens Color: White</p> <p>2.5. Lens Transparency: Diffused</p> <p>2.6. Millicandela Rating: 9mcd Green, 10mcd Red</p> <p>2.7. Lens Style: Rectangle with Flat Top</p> <p>2.8. Lens Size: 5.00mm x 2.00mm</p> <p>2.9. Voltage - Forward (Vf) (Typ): 2.2V Green, 2V Red</p> <p>2.10. Current - Test: 20mA Green, 20mA Red</p> <p>2.11. Viewing Angle: 110°</p> <p>2.12. Mounting Type: Through Hole</p> <p>2.13. Wavelength - Dominant: 568nm Green, 617nm Red</p> <p>2.14. Wavelength - Peak: 565nm Green, 627nm Red</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>				
37	<p>40V NPN Transistor</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces 40V NPN Transistor, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. A semiconductor device used to amplify or switch electrical signals and power.</p> <p>2.2. Transistor Type: NPN</p> <p>2.3. Current - Collector (Ic) (Max): 600 mA</p> <p>2.4. Voltage - Collector Emitter Breakdown (Max): 40 V</p> <p>2.5. Vce Saturation (Max) @ Ib, Ic: 750mV @ 50mA, 500mA</p> <p>2.6. Current - Collector Cutoff (Max): 50nA (ICBO)</p> <p>2.7. DC Current Gain (hFE) (Min) @ Ic, Vce: 80 @ 10mA, 1V</p> <p>2.8. Power - Max: 250 mW</p> <p>2.9. Frequency - Transition: 250MHz</p> <p>2.10. Operating Temperature: 150°C (TJ)</p> <p>2.11. Mounting Type: Surface Mount</p> <p>2.12. Package / Case: TO-236-3, SC-59, SOT-23-3</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p>	10	pc	27.00	270.00

	3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.				
38	<p>40V PNP Transistor</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces 40V PNP Transistor, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. A semiconductor device used to amplify or switch electrical signals and power.</p> <p>2.2. Transistor Type: PNP</p> <p>2.3. Current - Collector (Ic) (Max): 600 mA</p> <p>2.4. Voltage - Collector Emitter Breakdown (Max): 40 V</p> <p>2.5. Vce Saturation (Max) @ Ib, Ic: 750mV @ 50mA, 500mA</p> <p>2.6. Current - Collector Cutoff (Max): 50nA (ICBO)</p> <p>2.7. DC Current Gain (hFE) (Min) @ Ic, Vce: 100 @ 150mA, 2V</p> <p>2.8. Power - Max: 250 mW</p> <p>2.9. Frequency - Transition: 200MHz</p> <p>2.10. Operating Temperature: 150°C (TJ)</p> <p>2.11. Mounting Type: Surface Mount</p> <p>2.12. Package / Case: TO-236-3, SC-59, SOT-23-3</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	10	pc	11.75	117.50
39	<p>72V 1.1A 1h PTC Resettable Fuse</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Twenty (20) Pieces 72 1.1A 1h PTC Resettable Fuse, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Used to protect against overcurrent faults in electronic circuits.</p> <p>2.2. Type: Polymeric</p> <p>2.3. Voltage - Max: 72V</p> <p>2.4. Current - Max: 40 A</p> <p>2.5. Current - Hold (Ih) (Max): 1.1 A</p> <p>2.6. Current - Trip (It): 2.2 A</p> <p>2.7. Time to Trip: 8.2 s</p> <p>2.8. Resistance - Initial (Ri) (Min): 150 mOhms</p> <p>2.9. Resistance - Post Trip (R1) (Max): 380 mOhms</p> <p>2.10. Operating Temperature: -40°C ~ 85°C</p> <p>2.11. Mounting Type: Through Hole</p> <p>2.12. Package / Case: Radial, Disc</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60)</p>	20	pc	34.00	680.00

	<p>calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>				
40	<p>72V 300mA 1h PTC Resettable Fuse</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces 72 300mA 1h PTC Resettable Fuse, to be used in the prototyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Used to protect against overcurrent faults in electronic circuits.</p> <p>2.2. Type: Polymeric</p> <p>2.3. Voltage - Max: 72V</p> <p>2.4. Current - Max: 40 A</p> <p>2.5. Current - Hold (Ih) (Max): 300 mA</p> <p>2.6. Current - Trip (It): 600 mA</p> <p>2.7. Time to Trip: 3 s</p> <p>2.8. Resistance - Initial (Ri) (Min): 880 mOhms</p> <p>2.9. Resistance - Post Trip (R1) (Max): 2.1 Ohms</p> <p>2.10. Operating Temperature: -40°C ~ 85°C</p> <p>2.11. Mounting Type: Through Hole</p> <p>2.12. Package / Case: Radial, Disc</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	10	pc	56.00	560.00
41	<p>60V 50mA 1h PTC Resettable Fuse</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Twenty (20) Pieces 60V 50mA 1h PTC Resettable Fuse, to be used in the prototyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Used to protect against overcurrent faults in electronic circuits.</p> <p>2.2. Type: Polymeric</p> <p>2.3. Voltage - Max: 60V</p> <p>2.4. Current - Max: 10 A</p> <p>2.5. Current - Hold (Ih) (Max): 50 mA</p> <p>2.6. Current - Trip (It): 150 mA</p> <p>2.7. Time to Trip: 1.5 s</p> <p>2.8. Resistance - Initial (Ri) (Min): 3.6 Ohms</p> <p>2.9. Resistance - Post Trip (R1) (Max): 50 Ohms</p> <p>2.10. Operating Temperature: -40°C ~ 85°C</p> <p>2.11. Mounting Type: Surface Mount</p> <p>2.12. Package / Case: 1206 (3216 Metric), Concave</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg.,</p>	20	pc	14.00	280.00

	MIRDC Compound, Bicutan, Taguig City. 3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.				
42	<p>General Purpose Digital Isolator</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Twenty (20) Pieces General Purpose Digital Isolator, to be used in the prototyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Used to isolate digital signals and transfer digital communication across an isolation barrier.</p> <p>2.2. Type: General Purpose</p> <p>2.3. Number of Channels: 4</p> <p>2.4. Inputs - Side 1/Side 2: 3/1</p> <p>2.5. Channel Type: Unidirectional</p> <p>2.6. Voltage - Isolation: 2500Vrms</p> <p>2.7. Common Mode Transient Immunity (Min): 25kV/μs</p> <p>2.8. Data Rate: 1Mbps</p> <p>2.9. Propagation Delay tpLH / tpHL (Max): 100ns, 100ns</p> <p>2.10. Pulse Width Distortion (Max): 40ns</p> <p>2.11. Rise / Fall Time (Typ): 2.5ns, 2.5ns</p> <p>2.12. Voltage - Supply: 2.7V ~ 5.5V</p> <p>2.13. Operating Temperature: -40°C ~ 105°C</p> <p>2.14. Mounting Type: Surface Mount</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	20	pc	570.00	11,400.00
43	<p>Isolation Amplifier</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces Isolation Amplifier, to be used in the prototyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. An op-amp which provides isolation of one part of a circuit from another, so that power is not used, drawn, or wasted in a part of the circuit.</p> <p>2.2. Amplifier Type: Isolation</p> <p>2.3. Output Type: Differential</p> <p>2.4. -3db Bandwidth: 100 kHz</p> <p>2.5. Voltage - Input Offset: 200 μV</p> <p>2.6. Current - Supply: 5.4mA</p> <p>2.7. Voltage - Supply Span (Min): 2.7 V</p> <p>2.8. Voltage - Supply Span (Max): 5.5 V</p> <p>2.9. Operating Temperature: -40°C ~ 105°C</p> <p>2.10. Mounting Type: Surface Mount</p> <p>2.11. Package / Case: 8-SOIC</p>	10	pc	450.00	4,500.00

	<p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>				
44	<p>16MHz 8-bit Microcontroller</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces 16MHz 8-bit Microcontroller, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. An integrated circuit used as a control system.</p> <p>2.2. Mounting Style: SMD/SMT</p> <p>2.3. Package / Case: TQFP-32</p> <p>2.4. Core: AVR</p> <p>2.5. Program Memory Size: 64 kB</p> <p>2.6. Data Bus Width: 8 bit</p> <p>2.7. ADC Resolution: 10 bit</p> <p>2.8. Maximum Clock Frequency: 16 MHz</p> <p>2.9. Number of I/Os: 27 I/O</p> <p>2.10. Data RAM Size: 4 kB</p> <p>2.11. Supply Voltage - Min: 2.7 V</p> <p>2.12. Supply Voltage - Max: 5.5 V</p> <p>2.13. Minimum Operating Temperature: - 40 C</p> <p>2.14. Maximum Operating Temperature: + 85 C</p> <p>2.15. Data RAM Type: SRAM</p> <p>2.16. Data ROM Size: 2 kB</p> <p>2.17. Data ROM Type: EEPROM</p> <p>2.18. Interface Type: CAN, LIN, SPI, UART</p> <p>2.19. Moisture Sensitive: Yes</p> <p>2.20. Number of ADC Channels: 11 Channel</p> <p>2.21. Number of Timers/Counters: 2 Timer</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	10	pc	595.00	5,950.00
45	<p>General Purpose Diode</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces General Purpose Diode, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. An electronic component that conducts current primarily in one direction.</p> <p>2.2. Voltage - DC Reverse (Vr) (Max): 350 V</p> <p>2.3. Current - Average Rectified (Io): 200mA</p> <p>2.4. Voltage - Forward (Vf) (Max) @ If: 1.25 V @ 200 mA</p>	10	pc	20.00	200.00

	<p>2.5. Speed: Small Signal =< 200mA (Io), Any Speed</p> <p>2.6. Reverse Recovery Time (trr): 50 ns</p> <p>2.7. Current - Reverse Leakage @ Vr: 100 nA @ 240 V</p> <p>2.8. Capacitance @ Vr, F: 1pF @ 0V, 1MHz</p> <p>2.9. Mounting Type: Surface Mount</p> <p>2.10. Package / Case: SOD-123</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>				
46	<p>Tactile Switch</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces Tactile Switch, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. A switch whose operation is perceptible by touch</p> <p>2.2. Type: SPST - NO</p> <p>2.3. Mounting type: Through hole</p> <p>2.4. Contact rating @ Voltage: 0.05A @ 24VDC</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	10	pc	12.00	120.00
47	<p>CAN Transciever</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces CAN Transciever, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Converts the single-ended logic-level output signal (TXD) from the CAN controller to a differential signal.</p> <p>2.2. Type: Transceiver</p> <p>2.3. Protocol: CANbus</p> <p>2.4. Number of Drivers/Receivers: 1/1</p> <p>2.5. Duplex: Half</p> <p>2.6. Receiver Hysteresis: 125 mV</p> <p>2.7. Voltage - Supply: 4.75V ~ 5.25V</p> <p>2.8. Operating Temperature: -40°C ~ 125°C</p> <p>2.9. Mounting Type: Surface Mount</p> <p>2.10. Package / Case: 8-SOIC</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be</p>	10	pc	195.00	1,950.00

	processed once completely delivered, inspected, and accepted by the end-user.				
48	<p>Battery Monitor IC</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Twenty (20) Pieces Battery Monitor IC, to be used in the prototyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. An integrated circuit that monitors the voltage of a battery.</p> <p>2.2. Function: Battery Monitor</p> <p>2.3. Number of Cells: 1 ~ 12</p> <p>2.4. Fault Protection: Over/Under Voltage</p> <p>2.5. Interface: Serial</p> <p>2.6. Operating Temperature: -40°C ~ 85°C (TA)</p> <p>2.7. Mounting Type: Surface Mount</p> <p>2.8. Supplier Device Package: 44-SSOP</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	20	pc	2950.00	59,000.00
49	<p>5V DC DC Converter</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces 5V DC DC Converter, to be used in the prototyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Converts one DC voltage to another</p> <p>2.2. Type: Isolated Module</p> <p>2.3. Number of Outputs: 1</p> <p>2.4. Voltage - Input (Min): 4.5V</p> <p>2.5. Voltage - Input (Max): 5.5V</p> <p>2.6. Voltage - Output: 5V</p> <p>2.7. Current - Output (Max): 200mA</p> <p>2.8. Power (Watts): 1 W</p> <p>2.9. Voltage - Isolation: 1 kV</p> <p>2.10. Features: SCP</p> <p>2.11. Operating Temperature: -40°C ~ 85°C</p> <p>2.12. Efficiency: 75%</p> <p>2.13. Mounting Type: Surface Mount</p> <p>2.14. Package /Case: 8-SMD Module, 5 Leads</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	10	pc	335.00	3,350.00
50	18 Position Terminal Block Header	10	pc	140.00	1,400.00

	<p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces 18 Position Terminal Block Header, to be used in the prototyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Used to connect wires or cables to a circuit board or other electrical device.</p> <p>2.2. Type: Header, Male Pins, Shrouded (4 Side)</p> <p>2.3. Number of Positions: 18</p> <p>2.4. Positions Per Level: 18</p> <p>2.5. Number of Levels: 1</p> <p>2.6. Pitch: 0.200" (5.08mm)</p> <p>2.7. Header Orientation: 90°, Right Angle</p> <p>2.8. Termination Style: Solder</p> <p>2.9. Mounting Type: Through Hole</p> <p>2.10. Current - IEC: 20A</p> <p>2.11. Voltage - IEC: 320 V</p> <p>2.12. Current - UL: 16 A</p> <p>2.13. Voltage - UL: 300 V</p> <p>2.14. Operating Temperature: -40°C ~ 105°C</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>				
51	<p>3 Position Wire to Board Terminal Block Horizontal with Board</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces 3 position Wire to Board Terminal Block Horizontal with Board. to be used in the prototyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Used to connect wires or cables to a circuit board or other electrical device.</p> <p>2.2. Number of Levels: 1</p> <p>2.3. Positions Per Level: 3</p> <p>2.4. Pitch: 0.197" (5.00mm)</p> <p>2.5. Mating Orientation: Horizontal with Board</p> <p>2.6. Current: 15 A</p> <p>2.7. Voltage: 300 V</p> <p>2.8. Wire Gauge: 14-22 AWG</p> <p>2.9. Mounting Type: Through Hole</p> <p>2.10. Wire Termination: Screw - Leaf Spring, Wire Guard</p> <p>2.11. Features: Interlocking (Side)</p> <p>2.12. Operating Temperature: -30°C ~ 105°C</p> <p>2.13. Screw Thread: M2.6</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be</p>	10	pc	60.00	600.00

	processed once completely delivered, inspected, and accepted by the end-user.				
52	<p>P-Channel MOSFET</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery One hundred sixty (160) Pieces of P-Channel MOSFET, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. A type of field effect Transistor where the voltage determines the conductivity of the device.</p> <p>2.2. FET Type: P-Channel</p> <p>2.3. Technology: MOSFET (Metal Oxide)</p> <p>2.4. Drain to Source Voltage (Vds): 20 V</p> <p>2.5. Current - Continuous Drain (Id) @ 25°C: 2.2A (Ta)</p> <p>2.6. Drive Voltage (Max Rds On, Min Rds On): 2.5V, 4.5V</p> <p>2.7. Rds On (Max) @ Id, Vgs: 100mOhm @ 2.8A, 4.5V</p> <p>2.8. Vgs(th) (Max) @ Id: 950mV @ 250µA</p> <p>2.9. Gate Charge (Qg) (Max) @ Vgs: 10 nC @ 4.5 V</p> <p>2.10. Vgs (Max): ±8V</p> <p>2.11. Input Capacitance (Ciss) (Max) @ Vds: 375 pF @ 6 V</p> <p>2.12. Operating Temperature: -55°C ~ 150°C (TJ)</p> <p>2.13. Mounting Type: Surface Mount</p> <p>2.14. Supplier Device Package: SOT-23-3 (TO-236)</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	160	pc	30.00	4,800.00
53	<p>TVS Diode</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Twenty (20) Pieces TVS Diode, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. An electronic component that conducts current primarily in one direction.</p> <p>2.2. Type: Zener</p> <p>2.3. Bidirectional Channels: 1</p> <p>2.4. Voltage - Reverse Standoff (Typ): 64V</p> <p>2.5. Voltage - Breakdown (Min): 71.1V</p> <p>2.6. Voltage - Clamping (Max) @ Ipp: 103V</p> <p>2.7. Current - Peak Pulse (10/1000µs): 3.9A</p> <p>2.8. Power - Peak Pulse: 400W</p> <p>2.9. Operating Temperature: -55°C ~ 150°C (TJ)</p> <p>2.10. Mounting Type: Surface Mount</p> <p>2.11. Package / Case: DO-214AC, SMA</p> <p>3. PAYMENT AND DELIVERY TERMS:</p>	20	pc	33.00	660.00

	<p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>				
54	<p>12V DC DC Converter</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces 12V DC DC Converter, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Converts one DC voltage to another</p> <p>2.2. Number of Outputs: 1</p> <p>2.3. Voltage - Input (Min): 18V</p> <p>2.4. Voltage - Input (Max): 75V</p> <p>2.5. Voltage - Output: 12V</p> <p>2.6. Current - Output (Max): 500mA</p> <p>2.7. Power (Watts): 6 W</p> <p>2.8. Voltage - Isolation: 1.5 kV</p> <p>2.9. Operating Temperature: -40°C ~ 85°C</p> <p>2.10. Efficiency: 88%</p> <p>2.11. Mounting Type: Through Hole</p> <p>2.12. Package / Case: 8-SIP Module, 7 Leads</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user."</p>	10	pc	990.00	9,900.00
55	<p>Solid State Relay</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. The Advanced Science and Technology Institute (ASTI) is seeking qualified and competent bidders for the Supply and Delivery of Twenty (20) Pieces Solid State Relay, to be used in the pretotyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. An electronic switching device that switches on or off when an external voltage (AC or DC) is applied across its control terminals.</p> <p>2.2. Mounting Type: Surface Mount</p> <p>2.3. Output Type: AC, DC</p> <p>2.4. Voltage - Input: 1.64VDC</p> <p>2.5. Voltage - Load: 0 V ~ 100 V</p> <p>2.6. Load Current: 3.5 A</p> <p>2.7. On-State Resistance (Max): 80 mOhms</p> <p>2.8. Termination Style: Gull Wing</p> <p>2.9. Package / Case: 6-SMD (0.300", 7.62mm)</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be</p>	20	pc	320.00	6,400.00

	processed once completely delivered, inspected, and accepted by the end-user.				
56	<p>1nF 25V 1206 SMD Capacitor</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces 1nF 25V 1206 SMD Capacitor, to be used in the prototyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Used to store electrical energy in an electric field by virtue of accumulating electric charges on two close surfaces insulated from each other.</p> <p>2.2. Capacitance: 1000 pF</p> <p>2.3. Tolerance: $\pm 5\%$</p> <p>2.4. Voltage - Rated: 25V</p> <p>2.5. Mounting Type: Surface Mount, MLCC</p> <p>2.6. Package / Case: 1206 (3216 Metric)</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	10	pc	20.00	200.00
57	<p>1uF 100V 1206 SMD Capacitor</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Ten (10) Pieces 1uF 100V 1206 SMD Capacitor, to be used in the prototyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable government fees, taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Used to store electrical energy in an electric field by virtue of accumulating electric charges on two close surfaces insulated from each other</p> <p>2.2. Capacitance: 1 μF</p> <p>2.3. Tolerance: $\pm 5\%$</p> <p>2.4. Voltage - Rated: 100V</p> <p>2.5. Mounting Type: Surface Mount, MLCC</p> <p>2.6. Package / Case: 1206 (3216 Metric)</p> <p>3. PAYMENT AND DELIVERY TERMS:</p> <p>3.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.</p> <p>3.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p>	10	pc	40.00	400.00
58	<p>Wireless Communication Module with LoRa Technology</p> <p>1. GENERAL OVERVIEW:</p> <p>1.1. ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Sets Wireless Communication Module with LoRa Technology, to be used in the prototyping of EVCon.</p> <p>1.2. The ABC is inclusive of all applicable</p>	2	set	1750.00	3,500.00

government fees, taxes and other charges.

2. TECHNICAL SPECIFICATIONS

2.1. Used to communicate with other devices in the network wirelessly

2.2. IC Transceiver: RFM9x

2.3. ISM Band: European ISM @ 868MHz or ISM @ 916 MHz

2.4. Output Power : +/- 5 to +/- 20 dBm and up to 100mW

2.5. Interface: SX1276 LoRa based with SPI

2.6. Range: approximately 2Km or better.

3. PACKAGE INCLUSION

3.1. Two (2) sets - Wireless Communication Module with LoRa Technology, which includes the following per set:

3.1.1. One (1) pc - Wireless Communication Module with LoRa Technology

3.1.2. One (1) pc - User's Manual

4. PAYMENT AND DELIVERY TERMS:

4.1. Delivery must be done within sixty (60) calendar days upon issuance of NTP at EPDC Bldg., MIRDC Compound, Bicutan, Taguig City.

4.2. Government terms. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.

TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):

Php 668,995.50

GUIDELINES

A. Content and Format of Quotations

1. The Quotation/s must include the RFQ Number or the PR Number indicated above
2. Bidders must specify the BRAND NAMES and MODEL NAMES/NUMBER for the following goods:
 - a. Computer and electronic equipment and its accessories or peripherals
 - b. Software applications, programs, and digital licenses
 - c. Commercial off-the-shelf electronic devices or components
3. The Quotation/s must indicate the registered business name of the company (or individual), business address and contact number. It must also include the full name and signature of the company's authorized representative.
4. BIR Certificate of Registration for new DOST-ASTI suppliers.

B. Eligibility Requirements

Pursuant to Annex "H" or Consolidated Guidelines for the Alternative Methods of Procurement of the 2016 Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184, the following documents shall be submitted except for Repeat Order, Shopping under Section 52.1(a), and Negotiated Procurement under Sections 53.1 (Two-Failed Biddings), and 53.5 (Agency-to-Agency):

For Procurement of Goods

1. Upon submission of quotation
 - a. Valid PhilGEPS Registration Number / Organization ID
 - b. Valid Mayor's/Business Permit
2. Upon issuance of Notice of Award (NOA)
 - a. Omnibus Sworn Statement (shall be required only for procurement projects with ABC above P50,000.00)
 - b. Income/Business Tax Return (For ABCs above P500,000.00)

For Procurement of Infrastructure

1. Upon submission of quotation
 - a. Valid PhilGEPS Registration Number / Organization ID
 - b. Valid Mayor's/Business Permit
 - c. Valid PCAB License

2. Upon issuance of NOA
 - a. Omnibus Sworn Statement (shall be required only for procurement projects with ABC above P50,000.00)
 - b. Income/Business Tax Return (For ABCs above P500,000.00)

**Requirements under Section 53.6 (Scientific, Scholarly or Artistic Work, Exclusive Technology and Media Services) of the revised IRR of RA No. 9184 will not apply to artists such as singer, performer, poet, writer, painter and sculptor who are engaged in business.*

***Requirements under Section 53.10 (Lease of Real Property or Venue) of the revised IRR of RA No. 9184, specifically Mayor's/Business Permit, PhilGEPS Registration Number and Income/Business Tax Return will not apply to government agencies as lessors.*

****For methods of procurement requiring Mayor's Permit and PhilGEPS Registration Number, valid Certificate of Platinum Membership may be submitted in lieu of the said documents.*

C. Terms and Conditions

1. Additional requirements, if necessary, may be requested by the BAC depending on the item to be bid;
2. All transactions are subject to creditable withholding tax and final Value Added Tax or percentage tax per revenue regulation/s of the BIR;
3. Liquidated damages of at least equal to one-tenth of one percent (0.001) of the cost of the unperformed portion for every day of delay shall be imposed by the DOST-ASTI pursuant to Section 68 of the revised IRR of RA No. 9184; and
4. The DOST-ASTI reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.