



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

Kind of Procurement Activity:	Negotiated Procurement: Small-value Procurement		
Deadline of Submission of Bids:	Mar-10-2025, 2:00 PM		
RFQ No.:	25-03-5158	Date:	March-05-2025
PR No.:	FASTRACRoa-25-02-20740	Date:	March-03-2025

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.

JEFFREY A. ABOROT
BAC Chairperson

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	Stepper Motor Driver 1. GENERAL OVERVIEW 1.1. DOST-ASTI intends to procure six (6) pieces of Stepper Motor Driver to use as consumable technical supplies for the activities of the FASTRAC Lite: ROAMER Project. 1.2. The Approved Budget for the Contract (ABC) is inclusive of government taxes and other charges. 2. TECHNICAL SPECIFICATIONS 2.1. For Consumable Supplies 2.2. Quantity: Six (6) pieces 2.3. Chipset: DRV8825 2.4. Control Interface: Step and direction control interface 2.5. Step Resolutions: Full-step, Half-step, 1/4-step, 1/8-step, 1/16-step, and 1/32-step 2.6. Max Current Control: Via Potentiometer 2.7. Current Protection: Chopping control, automated selection of current decay mode (fast decay or slow decay) 2.8. Maximum Supply Voltage: 45 V 2.9. Logic Voltage Regulation: Built-in regulator 2.10. Voltage Compatibility: Can interface directly with 3.3 V and 5 V systems	6	pc	192.50	1,155.00

	<p>2.11. Other Protection Features:</p> <p>2.11.1. Over-temperature thermal shutdown</p> <p>2.11.2. Over-current shutdown</p> <p>2.11.3. Under-voltage lockout</p> <p>2.11.4. Short-to-ground and shorted-load protection</p> <p>3. WARRANTY</p> <p>3.1. Supplier warrants the item against defects in manufacturing and shipping and delivery issues.</p> <p>3.2. Defective and incorrect items shall be replaced.</p> <p>3.3. At least three (3) months warranty period.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. Price is inclusive of government taxes, delivery fees, and other charges.</p> <p>4.2. Items must be delivered to DOST-ASTI Extension Office, Room 409, National Engineering Center – University of the Philippines, Diliman, Quezon City, within forty-five (45) calendar days upon issuance of Notice to Proceed (NTP).</p>				
2	<p>Water Pump</p> <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI intends to procure two (2) pieces of Water Pump to use as part of the prototype for the research and development of the FASTRAC Lite: ROAMER Project.</p> <p>1.2. The ABC is inclusive of government taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Part of the Prototype</p> <p>2.2. Quantity: Two (2) pieces</p> <p>2.3. Self-Priming Water Pump</p> <p>2.4. Material: Stainless Steel</p> <p>2.5. Type: Diaphragm Pump</p> <p>2.6. Power Source: 12V DC</p> <p>2.7. Volume Flow Rate: 3.5 GPM</p> <p>2.8. Max Lifting Height: 131 ft</p> <p>2.9. Wattage: 55 Watts</p> <p>2.10. Standard Pressure: 45 PSI</p> <p>2.11. Package Inclusions:</p> <p>2.11.1. One (1) diaphragm pump</p> <p>2.11.2. Two (2) hose adapters</p> <p>2.11.3. One (1) 50 mesh inlet strainer</p> <p>2.11.4. One (1) Teflon tape</p> <p>2.11.5. One (1) user manual</p> <p>3. WARRANTY</p> <p>3.1. Supplier warrants the item against defects in manufacturing and shipping and delivery issues.</p> <p>3.2. Defective and incorrect items shall be replaced.</p> <p>3.3. At least three (3) months warranty period.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. Price is inclusive of government taxes, delivery fees, and other charges.</p> <p>4.2. Items must be delivered to DOST-ASTI Extension Office, Room 409, National Engineering Center – University of the Philippines, Diliman, Quezon City, within forty-five (45) calendar days upon issuance of</p>	2	pc	8525.00	17,050.00

	Notice to Proceed (NTP).				
3	Buck Converter Module - MP2307DN 1. GENERAL OVERVIEW 1.1. DOST-ASTI intends to procure two (2) pieces of Buck Converter Module - MP2307DN to use as consumable technical supplies for the activities of the FASTRAC Lite: ROAMER Project. 1.2. The ABC is inclusive of government taxes and other charges. 2. TECHNICAL SPECIFICATIONS 2.1. For Consumable Supplies 2.2. Quantity: Two (2) pieces 2.3. Chipset: MPS MP2307DN 2.4. Input Voltage: 4.75VDC - 23VDC 2.5. Selectable Output Voltage: 1.0VDC - 17VDC 2.6. Current: 3A surge current, 1.8A continuous rated current 2.7. Thermal Protection: Built-in 160°C thermal shutdown 3. WARRANTY 3.1. Supplier warrants the item against defects in manufacturing and shipping and delivery issues. 3.2. Defective and incorrect items shall be replaced. 3.3. At least three (3) months warranty period. 4. DELIVERY AND PAYMENT TERMS 4.1. Price is inclusive of government taxes, delivery fees, and other charges. 4.2. Items must be delivered to DOST-ASTI Extension Office, Room 409, National Engineering Center – University of the Philippines, Diliman, Quezon City, within forty-five (45) calendar days upon issuance of Notice to Proceed (NTP).	2	pc	77.00	154.00
4	Buck Converter Module - LM2596 1. GENERAL OVERVIEW 1.1. DOST-ASTI intends to procure two (2) pieces of Buck Converter Module - LM2596 to use as consumable technical supplies for the activities of the FASTRAC Lite: ROAMER Project. 1.2. The ABC is inclusive of government taxes and other charges. 2. TECHNICAL SPECIFICATIONS 2.1. For Consumable Supplies 2.2. Quantity: Two (2) pieces 2.3. Chipset: LM2596 2.4. Display: With 7 segment display 2.5. Input Voltage: 4V-35V 2.6. Adjustable Output Voltage: 1.25DCV - 30VDC 2.7. Output Current: 3A 3. WARRANTY 3.1. Supplier warrants the item against defects in manufacturing and shipping and delivery issues. 3.2. Defective and incorrect items shall be replaced. 3.3. At least three (3) months warranty period.	2	pc	228.25	456.50

	<p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. Price is inclusive of government taxes, delivery fees, and other charges.</p> <p>4.2. Items must be delivered to DOST-ASTI Extension Office, Room 409, National Engineering Center – University of the Philippines, Diliman, Quezon City, within forty-five (45) calendar days upon issuance of Notice to Proceed (NTP).</p>				
5	<p>Buck Converter Module - GS2678</p> <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI intends to procure two (2) pieces of Buck Converter Module - GS2678 to use as consumable technical supplies for the activities of the FASTRAC Lite: ROAMER Project.</p> <p>1.2. The ABC is inclusive of government taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. For Consumable Supplies</p> <p>2.2. Quantity: Two (2) pieces</p> <p>2.3. Chipset: GS2678</p> <p>2.4. Input Voltage Range: 3.6V-25V</p> <p>2.5. Output Adjustable Range: 3.3V-24V</p> <p>2.6. Constant Output Current: 5A at 5V</p> <p>2.7. Max Output Power: 25W</p> <p>2.8. Switching Frequency: 350KHZ</p> <p>2.9. Output Interface: 3</p> <p>2.10. Input Interface: 1</p> <p>3. WARRANTY</p> <p>3.1. Supplier warrants the item against defects in manufacturing and shipping and delivery issues.</p> <p>3.2. Defective and incorrect items shall be replaced.</p> <p>3.3. At least three (3) months warranty period.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. Price is inclusive of government taxes, delivery fees, and other charges.</p> <p>4.2. Items must be delivered to DOST-ASTI Extension Office, Room 409, National Engineering Center – University of the Philippines, Diliman, Quezon City, within forty-five (45) calendar days upon issuance of Notice to Proceed (NTP).</p>	2	pc	797.50	1,595.00
6	<p>AI Development Board - Compact</p> <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI intends to procure one (1) piece of AI Development Board – Compact to use as part of the prototype for the research and development of the FASTRAC Lite: ROAMER Project.</p> <p>1.2. The ABC is inclusive of government taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Part of the Prototype</p> <p>2.2. Quantity: One (1) piece</p> <p>2.3. AI Performance: 67 INT8 TOPS</p> <p>2.4. GPU: NVIDIA Ampere architecture with 1024 CUDA cores and 32 tensor cores or better</p> <p>2.5. CPU: 6-core Arm Cortex-A78AE v8.2 64-bit CPU</p>	1	pc	40425.00	40,425.00

	<p>1.5MB L2 + 4MB L3 or better</p> <p>2.6. Memory: 8GB 128-bit LPDDR5 at 102 GB/s</p> <p>2.7. Storage: Supports SD card slot and external NVMe</p> <p>2.8. Power: 7W–25W</p> <p>2.9. Camera: 2x MIPI CSI-2 22-pin camera connectors</p> <p>2.10. PCIe:</p> <p>2.10.1. M.2 Key M slot with x4 PCIe Gen3</p> <p>2.10.2. M.2 Key M slot with x2 PCIe Gen3</p> <p>2.10.3. M.2 Key E slot</p> <p>2.11. USB:</p> <p>2.11.1. USB Type-A connector: 4x USB 3.2 Gen2</p> <p>2.11.2. USB Type-C connector for UFP</p> <p>2.12. Networking: 1xGbE connector</p> <p>2.13. Display: 1x DP 1.2 (+MST) connector</p> <p>2.14. Other Input and Output:</p> <p>2.14.1. 40-pin expansion header (UART, SPI, I2S, I2C, GPIO)</p> <p>2.14.2. 12-pin button header</p> <p>2.14.3. 4-pin fan header</p> <p>2.14.4. DC power jack</p> <p>3. WARRANTY</p> <p>3.1. Supplier warrants the item against defects in manufacturing and shipping and delivery issues.</p> <p>3.2. Defective and incorrect items shall be replaced.</p> <p>3.3. At least three (3) months warranty period.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. Price is inclusive of government taxes, delivery fees, and other charges.</p> <p>4.2. Items must be delivered to DOST-ASTI Extension Office, Room 409, National Engineering Center – University of the Philippines, Diliman, Quezon City, within forty-five (45) calendar days upon issuance of Notice to Proceed (NTP).</p>				
7	<p>AI Development Board</p> <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI intends to procure one (1) piece of AI Development Board to use as part of the prototype for the research and development of the FASTRAC Lite: ROAMER Project.</p> <p>1.2. The ABC is inclusive of government taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Part of the Prototype</p> <p>2.2. Quantity: One (1) piece</p> <p>2.3. AI Performance: 100 TOPS or better</p> <p>2.4. GPU: 1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores or better</p> <p>2.5. CPU: 8-core Arm Cortex - A78AE v8.2 64-bit CPU (Orin NX 16GB) or better</p> <p>2.6. Memory: 16GB 128-bit LPDDR5 (Orin NX 16GB) or better</p> <p>2.7. Video Encode: 1x 4K60 (H.265) 3x 4K30 (H.265) 6x 1080p60 (H.265) 12x 1080p30 (H.265)</p> <p>2.8. Video Decode: 1x 8K30 (H.265) 2x 4K60 (H.265) 4x 4K30 (H.265) 9x 1080p60 (H.265) 18x</p>	1	pc	98175.00	98,175.00

	<p>1080p30 (H.265)</p> <p>2.9. DL Accelerator: 2x NVDLA v2 or better</p> <p>2.10. Storage: 1x M.2 Key M PCIe (M.2 NVMe 2280 SSD 128G included)</p> <p>2.11. Networking Ethernet: 1x RJ-45 Gigabit Ethernet (10/100/1000M)</p> <p>2.12. Networking M.2 KEY E: 1x M.2 Key E for WiFi/Bluetooth module</p> <p>2.13. Input and Output:</p> <p>2.13.1. USB:</p> <p>2.13.1.1. 4x USB 3.2 Type-A (10Gbps),</p> <p>2.13.1.2. 1x USB2.0 Type-C (Device Mode),</p> <p>2.13.2. Camera: 2x CSI (2-lane 15pin),</p> <p>2.13.3. Display: 1x HDMI 2.1,</p> <p>2.13.4. Fan: 1x 4 pin Fan Connector (5V PWM),</p> <p>2.13.5. CAN: 1x CAN,</p> <p>2.13.6. Multifunctional Ports: 1x 40-Pin</p> <p>2.13.7. Expansion Header: 1x 12-Pin</p> <p>2.13.8. Control and UART Header</p> <p>2.13.9. RTC: 1x RTC 2-pin</p> <p>2.14. Power: 9V-19V DC</p> <p>2.15. Mechanical: With case</p> <p>2.16. Installation: Desk, wall-mounting</p> <p>3. WARRANTY</p> <p>3.1. Supplier warrants the item against defects in manufacturing and shipping and delivery issues.</p> <p>3.2. Defective and incorrect items shall be replaced.</p> <p>3.3. At least three (3) months warranty period.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. Price is inclusive of government taxes, delivery fees, and other charges.</p> <p>4.2. Items must be delivered to DOST-ASTI Extension Office, Room 409, National Engineering Center – University of the Philippines, Diliman, Quezon City, within forty-five (45) calendar days upon issuance of Notice to Proceed (NTP).</p>				
8	<p>Depth Camera - Polarizer</p> <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI intends to procure two (2) pieces of Depth Camera – Polarizer to use as part of the prototype for the research and development of the FASTRAC Lite: ROAMER Project.</p> <p>1.2. The ABC is inclusive of government taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Part of the Prototype</p> <p>2.2. Quantity: Two (2) pieces</p> <p>2.3. Baseline: 120 mm (4.72")</p> <p>2.4. Lens Cover: PPMA</p> <p>2.5. Video Output:</p> <p>2.5.1. 2K at 15 FPS with Output resolution side-by-side of 2x(2208x1242)</p> <p>2.5.2. 1080p at 30 or 15 FPS with Output resolution side-by-side of 2x(1920x1080)</p> <p>2.5.3. 720p at 60, 30 or 15 FPS with Output resolution side-by-side of 2x(1280x720)</p> <p>2.5.4. 376p at 100, 60, 30 or 15 FPS with Output</p>	2	pc	59675.00	119,350.00

- resolution side-by-side of 2x(672x376)
- 2.6. Video Recording: Native resolution video encoding in H.264, H.265 or lossless format (on host)
 - 2.7. Depth Resolution: Native video resolution (in Ultra mode) or better
 - 2.8. Depth FPS: Up to 100Hz
 - 2.9. Depth Range Max: 0.3m to 20m with 2.1 mm lens
 - 2.10. Ideal Range: 0.3m to 12m with 2.1 mm lens
 - 2.11. Depth Technology: Neural Stereo Depth Sensing
 - 2.12. 11. Motion Sensors:
 - 2.12.1. Accelerometer
 - 2.12.1.1. Data Rate: 400Hz
 - 2.12.2. 11.2 Gyroscope
 - 2.12.2.1. Data Rate: 400Hz
 - 2.12.3. Barometer
 - 2.12.4. Magnetometer
 - 2.12.5. Temperature sensors
 - 2.13. Pose Update Rate: Up to 100Hz
 - 2.14. Pose Drift: Translation: 0.35%, Rotation: 0.005°/m, without loop correction
 - 2.15. Motion Technology: 6-DoF visual-inertial stereo SLAM with advanced sensor fusion and thermal compensation
 - 2.16. Object Types: Persons, Vehicles, Custom Objects
 - 2.17. Object Tracking: Yes
 - 2.18. Detection Outputs: Bounding Boxes 2D/3D, Location, Speed, Unique ID, Segmentation Masks
 - 2.18.1. Detection Range: Up to 20m (3D), Up to 40m (2D)
 - 2.19. Skeleton Tracking:
 - 2.19.1. Body Keypoints: 18x, 34x or 38x
 - 2.19.2. Range: Up to 15m
 - 2.20. Lens Type: Wide-angle 8-element all-glass dual lens with optically corrected distortion
 - 2.21. Aperture: f/2.0 (2.1mm)
 - 2.22. Focal Length: 2.1mm
 - 2.23. Field of View: 110°(H) x 70°(V) x 120°(D) max. (for 2.1mm)
 - 2.24. Polarizing Filter: Yes
 - 2.25. Sensor Resolution: Dual 4M pixels sensors with 2-micron pixels
 - 2.26. Sensor Format: Native 16:9 format for a greater horizontal field of view
 - 2.27. Sensor Size: 1/3" backside illumination sensors with high low-light sensitivity
 - 2.28. Shutter Sync: Electronic Synchronized Rolling Shutter
 - 2.29. Camera Controls: Adjust Resolution, Frame rate, Brightness, Contrast, Saturation, Gamma, Sharpness, Exposure and White Balance
3. WARRANTY
- 3.1. Supplier warrants the item against defects in manufacturing and shipping and delivery issues.
 - 3.2. Defective and incorrect items shall be replaced.
 - 3.3. At least three (3) months warranty period.
4. DELIVERY AND PAYMENT TERMS
- 4.1. Price is inclusive of government taxes, delivery

	fees, and other charges. 4.2. Items must be delivered to DOST-ASTI Extension Office, Room 409, National Engineering Center – University of the Philippines, Diliman, Quezon City, within forty-five (45) calendar days upon issuance of Notice to Proceed (NTP).				
9	T-Nut - M3x10x6 1. GENERAL OVERVIEW 1.1. DOST-ASTI intends to procure five (5) sets of T-Nut - M3x10x6 to use as consumable technical supplies for the activities of the FASTRAC Lite: ROAMER Project. 1.2. The ABC is inclusive of government taxes and other charges. 2. TECHNICAL SPECIFICATIONS 2.1. For Consumable Supplies 2.2. Quantity: Five (5) sets 2.3. Each set contains: Ten (10) pieces 2.4. Shape: Hammer Head 2.5. Material: Carbon Steel 2.6. Finish: Nickel plated or Zinc plated 2.7. Thread Type: M3 2.8. Length: 10 mm 2.9. Width: 6 mm 3. WARRANTY 3.1. Supplier warrants the item against defects in manufacturing and shipping and delivery issues. 3.2. Defective and incorrect items shall be replaced. 3.3. At least three (3) months warranty period. 4. DELIVERY AND PAYMENT TERMS 4.1. Price is inclusive of government taxes, delivery fees, and other charges. 4.2. Items must be delivered to DOST-ASTI Extension Office, Room 409, National Engineering Center – University of the Philippines, Diliman, Quezon City, within forty-five (45) calendar days upon issuance of Notice to Proceed (NTP).	5	set	88.00	440.00
10	Depth Camera - IMU 1. GENERAL OVERVIEW 1.1. DOST-ASTI intends to procure five (5) pieces of Depth Camera – IMU to use as part of the prototype for the research and development of the FASTRAC Lite: ROAMER Project. 1.2. The ABC is inclusive of government taxes and other charges. 2. TECHNICAL SPECIFICATIONS 2.1. Part of the Prototype 2.2. Quantity: Five (5) pieces 2.3. Image Sensor Technology: Global Shutter 2.4. Ideal Range: 0.3 m to 3 m 2.5. Depth Technology: Stereoscopic 2.6. Minimum Depth Distance (Min-Z) at max resolution: ~28 cm 2.7. Depth Accuracy: <2% at 2m 2.8. Depth Field of View (FOV): 87° × 58°	5	pc	37950.00	189,750.00

	<p>2.9. Depth Output Resolution: Up to 1280 × 720</p> <p>2.10. Depth Frame Rate: Up to 90 fps</p> <p>2.11. RGB frame resolution: 1920 × 1080</p> <p>2.12. RGB Frame Rate: 30 fps</p> <p>2.13. RGB Sensor Technology: Rolling Shutter</p> <p>2.14. RGB Sensor FOV (H × V): 69° × 42°</p> <p>2.15. RGB Sensor Resolution: 2 MP</p> <p>2.16. Camera Module: Intel RealSense Module D430 + RGB Camera or better</p> <p>2.17. Vision Processor Board: Intel RealSense Vision Processor D4 or better</p> <p>2.18. Form Factor: Camera Peripheral</p> <p>2.19. Connectors: USB-C 3.1 Gen 1</p> <p>2.20. Mounting Mechanism:</p> <p>2.20.1. One 1/4-20 UNC thread mounting point</p> <p>2.20.2. Two M3 thread mounting points</p> <p>3. WARRANTY</p> <p>3.1. Supplier warrants the item against defects in manufacturing and shipping and delivery issues.</p> <p>3.2. Defective and incorrect items shall be replaced.</p> <p>3.3. At least three (3) months warranty period.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. Price is inclusive of government taxes, delivery fees, and other charges.</p> <p>4.2. Items must be delivered to DOST-ASTI Extension Office, Room 409, National Engineering Center – University of the Philippines, Diliman, Quezon City, within forty-five (45) calendar days upon issuance of Notice to Proceed (NTP).</p>				
11	<p>3D Printer Filament - PETG</p> <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI intends to procure forty (40) kilograms of 3D Printer Filament - PETG to use as consumable technical supplies for the activities of the FASTRAC Lite: ROAMER Project.</p> <p>1.2. The ABC is inclusive of government taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. For Consumable Supplies</p> <p>2.2. Quantity: Forty (40) kilograms, at least forty (40) spools</p> <p>2.3. Weight per Spool: 1 kilogram</p> <p>2.4. Diameter: 1.75mm</p> <p>2.5. Material: PETG</p> <p>2.6. Color: To be determined by end-user</p> <p>3. WARRANTY</p> <p>3.1. Supplier warrants the item against defects in manufacturing and shipping and delivery issues.</p> <p>3.2. Defective and incorrect items shall be replaced.</p> <p>3.3. At least three (3) months warranty period.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. Price is inclusive of government taxes, delivery fees, and other charges.</p> <p>4.2. Items must be delivered to DOST-ASTI Extension Office, Room 409, National Engineering Center –</p>	40	kilo	1166.00	46,640.00

	University of the Philippines, Diliman, Quezon City, within forty-five (45) calendar days upon issuance of Notice to Proceed (NTP).				
12	Aluminum Extrusion - 2020 1. GENERAL OVERVIEW 1.1. DOST-ASTI intends to procure One (1) piece of Aluminum Extrusion – 2020 to use as consumable technical supplies for the activities of the FASTRAC Lite: ROAMER Project. 1.2. The ABC is inclusive of government taxes and other charges. 2. TECHNICAL SPECIFICATIONS 2.1. For Consumable Supplies 2.2. Quantity: One (1) piece 2.3. Material: 6063 T-5 Aluminum 2.4. Colour: Black anodised / Silver anodised 2.5. Profile: 20x20mm 2.6. Length: 1200mm 3. WARRANTY 3.1. Supplier warrants the item against defects in manufacturing and shipping and delivery issues. 3.2. Defective and incorrect items shall be replaced. 3.3. At least three (3) months warranty period. 4. DELIVERY AND PAYMENT TERMS 4.1. Price is inclusive of government taxes, delivery fees, and other charges. 4.2. Items must be delivered to DOST-ASTI Extension Office, Room 409, National Engineering Center – University of the Philippines, Diliman, Quezon City, within forty-five (45) calendar days upon issuance of Notice to Proceed (NTP).	1	pc	893.75	893.75
13	XT60 Connector 1. GENERAL OVERVIEW 1.1. DOST-ASTI intends to procure ten (10) sets of XT60 Connector to use as consumable technical supplies for the activities of the FASTRAC Lite: ROAMER Project. 1.2. The ABC is inclusive of government taxes and other charges. 2. TECHNICAL SPECIFICATIONS 2.1. For Consumable Supplies 2.2. Quantity: Ten (10) sets 2.3. Each set contains: 2.3.1. One (1) XT60 Male Connector 2.3.2. One (1) XT60 Female Connector 3. WARRANTY 3.1. Supplier warrants the item against defects in manufacturing and shipping and delivery issues. 3.2. Defective and incorrect items shall be replaced. 3.3. At least three (3) months warranty period. 4. DELIVERY AND PAYMENT TERMS 4.1. Price is inclusive of government taxes, delivery fees, and other charges.	10	set	134.75	1,347.50

	4.2. Items must be delivered to DOST-ASTI Extension Office, Room 409, National Engineering Center – University of the Philippines, Diliman, Quezon City, within forty-five (45) calendar days upon issuance of Notice to Proceed (NTP).				
14	Servo Motor - 45kg 1. GENERAL OVERVIEW 1.1. DOST-ASTI intends to procure eight (8) pieces of Servo Motor - 45kg to use as part of the prototype for the research and development of the FASTRAC Lite: ROAMER Project. 1.2. The ABC is inclusive of government taxes and other charges. 2. TECHNICAL SPECIFICATIONS 2.1. Part of the Prototype 2.2. Quantity: Eight (8) pieces 2.3. Working Voltage: 9V-12.6V 2.4. Rotation Speed: 18sec/60° at 11.1V 2.5. Locked Torque: 45kg.cm at 11.1V 2.6. Static Maximum Torque: 45kg.cm at 11.1V 2.7. Rotation Range: 0°-240° 2.8. No-load Current: 100mA 2.9. Stall Current: 3A 2.10. Servo Accuracy: 0.2° 2.11. Controllable Angle Range: 0~1000, corresponding to 0~240° 2.12. Control Method: UART serial command 2.13. Communication Baud Rate: 115200 2.14. Storage: Save data when power off 2.15. Servo ID: Can be set to 0~253, 1 by default 2.16. Angle Read Back Function: Supported 2.17. Protection: Avoid stalling and overheating 2.18. Data Feedback: Temperature, voltage, position 2.19. Working Mode: Servo mode and gear motor mode 2.20. Gear Type: Metal gear 2.21. Servo Wire Length: 20cm 2.22. Connector: JST PH2.0-3P 3. WARRANTY 3.1. Supplier warrants the item against defects in manufacturing and shipping and delivery issues. 3.2. Defective and incorrect items shall be replaced. 3.3. At least three (3) months warranty period. 4. DELIVERY AND PAYMENT TERMS 4.1. Price is inclusive of government taxes, delivery fees, and other charges. 4.2. Items must be delivered to DOST-ASTI Extension Office, Room 409, National Engineering Center – University of the Philippines, Diliman, Quezon City, within forty-five (45) calendar days upon issuance of Notice to Proceed (NTP).	8	pc	2750.00	22,000.00
15	Servo Motor - 125kg 1. GENERAL OVERVIEW 1.1. DOST-ASTI intends to procure two (2) pieces of Servo Motor - 125kg to use as part of the prototype for the research and development of the FASTRAC Lite:	2	pc	41800.00	83,600.00

<p>ROAMER Project.</p> <p>1.2. The ABC is inclusive of government taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Part of the Prototype</p> <p>2.2. Quantity: Two (2) pieces</p> <p>2.3. Operating Voltage 7.4V-16V</p> <p>2.4. Gear Material: Steel</p> <p>2.5. Operating Temperature: -15 to 70 degrees Celcius</p> <p>2.6. Case Material: Fully aluminum</p> <p>2.7. Operating Travel: 180 degrees +/- 10 degrees</p> <p>2.8. Mechanical Angle: No limit</p> <p>2.9. Pulse Width: 500 to 2500 micro seconds</p> <p>2.10. Motor Type: Brushless</p> <p>2.11. Dead Band: 2 microseconds</p> <p>2.12. Frequency: 333 Hz</p> <p>2.13. IP Rating: IP67</p> <p>3. WARRANTY</p> <p>3.1. Supplier warrants the item against defects in manufacturing and shipping and delivery issues.</p> <p>3.2. Defective and incorrect items shall be replaced.</p> <p>3.3. At least three (3) months warranty period.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. Price is inclusive of government taxes, delivery fees, and other charges.</p> <p>4.2. Items must be delivered to DOST-ASTI Extension Office, Room 409, National Engineering Center – University of the Philippines, Diliman, Quezon City, within forty-five (45) calendar days upon issuance of Notice to Proceed (NTP).</p>				
TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):				Php 623,031.75
GUIDELINES				
<p>A. Content and Format of Quotations</p> <ol style="list-style-type: none"> <i>The Quotation/s must include the RFQ Number or the PR Number indicated above</i> <i>Bidders must specify the BRAND NAMES and MODEL NAMES/NUMBER for the following goods:</i> <ol style="list-style-type: none"> <i>Computer and electronic equipment and its accessories or peripherals</i> <i>Software applications, programs, and digital licenses</i> <i>Commercial off-the-shelf electronic devices or components</i> <i>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.</i> <i>BIR Certificate of Registration for new DOST-ASTI suppliers.</i> <p>B. Eligibility Requirements</p> <p><i>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):</i></p>				

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.