



Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE



PURCHASE ORDER

ASTI – FM 03-17
REV 3 / 10 October 2023

Supplier:	JASSEN HARRIS INDUSTRIES CORP.	PO No.:	FASTRACRoa-25-04-001
Address:	1063 Tomas Mapua St., Brgy. 329 Zone 33, Sta. Cruz, Manila, 1014	PO Date:	07 April 2025
TIN:	009-248-102-00000	Mode of Procurement:	NP-53.9 Small Value Procurement

Gentleman:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	DOST-ASTI Extension Office, Room 409, National Engineering Center - University of the Philippines, Diliman, Quezon City	Delivery Term:	Forty-five (45) calendar days upon issuance of NTP
Date of Delivery:		Payment Term:	Government Terms
		Warranty Term:	

Stock / Property No.	Unit	Description	Quantity	Unit Cost	Amount
1	Piece	<p>Stepper Motor Driver</p> <p>1. GENERAL OVERVIEW</p> <p>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.</p> <p>1.2. The Approved Budget for the Contract (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: Six (6) pieces</p> <p>2.3. Chipset: DRV8825</p> <p>2.4. Control Interface: Step and direction control interface</p> <p>2.5. Step Resolutions: Full-step, Half-step, 1/4-step, 1/8-step, 1/16-step, and 1/32-step</p> <p>2.6. Max Current Control: Via Potentiometer</p> <p>2.7. Current Protection: Chopping control, automated selection of current decay mode (fast decay or slow decay)</p> <p>2.8. Maximum Supply Voltage: 45 V</p> <p>2.9. Logic Voltage Regulation: Built-in regulator</p> <p>2.10. Voltage Compatibility: Can interface directly with 3.3 V and 5 V systems</p> <p>2.11. Other Protection Features:</p> <p>2.11.1. Over-temperature thermal</p>	6	P150.00	P900.00

other
supplies

Postal Address : ASTI Bldg., U.P. Technology Park Complex,
CP Garcia Ave., Diliman, Quezon City 1101
Website : www.asti.dost.gov.ph
Email : info@asti.dost.gov.ph

Tel No. : +632 8249-8500
+632 8426-9755

		<p>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> <p>(Please see attached quotation.)</p>			
2	Piece	<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</p>	2	P7,000.00	P14,000.00

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		<p>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> <p>(Please see attached quotation.)</p>			
3	Piece	<p>Buck Converter Module - MP2307DN</p> <p>1. GENERAL OVERVIEW</p> <p>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.</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: MPS MP2307DN</p> <p>2.4. Input Voltage: 4.75VDC - 23VDC</p> <p>2.5. Selectable Output Voltage: 1.0VDC - 17VDC</p> <p>2.6. Current: 3A surge current, 1.8A continuous rated current</p> <p>2.7. Thermal Protection: Built-in 160°C thermal shutdown</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> <p>(Please see attached quotation.)</p>	2	P40.00	P80.00

other
Supplies

4	Piece	<p>Buck Converter Module - LM2596</p> <p>1. GENERAL OVERVIEW</p> <p>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.</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: LM2596</p> <p>2.4. Display: With 7 segment display</p> <p>2.5. Input Voltage: 4V-35V</p> <p>2.6. Adjustable Output Voltage: 1.25DCV - 30VDC</p> <p>2.7. Output Current: 3A</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> <p>(Please see attached quotation.)</p>	2	P165.00	P330.00
5	Piece	<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>	2	P650.00	P1,300.00

other
supplies

		<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 Inteface: 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> <p>(Please see attached quotation.)</p>			
6	Piece	<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 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>	1	P34,500.00	P34,500.00

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		<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> <p>(Please see attached quotation.)</p>				
7	Piece	<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</p>	1	P87,500.00	P87,500.00	

		<p>4K60 (H.265) 4x 4K30 (H.265) 9x 1080p60 (H.265) 18x 1080p30 (H.265) 2.9. DL Accelerator: 2x NVDLA v2 or better 2.10. Storage: 1x M.2 Key M PCIe (M.2 NVMe 2280 SSD 128G included) 2.11. Networking Ethernet: 1x RJ-45 Gigabit Ethernet (10/100/1000M) 2.12. Networking M.2 KEY E: 1x M.2 Key E for WiFi/Bluetooth module 2.13. Input and Output: 2.13.1. USB: 2.13.1.1. 4x USB 3.2 Type-A (10Gbps), 2.13.1.2. 1x USB2.0 Type-C (Device Mode), 2.13.2. Camera: 2x CSI (2-lane 15pin), 2.13.3. Display: 1x HDMI 2.1, 2.13.4. Fan: 1x 4 pin Fan Connector (5V PWM), 2.13.5. CAN: 1x CAN, 2.13.6. Multifunctional Ports: 1x 40-Pin 2.13.7. Expansion Header: 1x 12-Pin 2.13.8. Control and UART Header 2.13.9. RTC: 1x RTC 2-pin 2.14. Power: 9V-19V DC 2.15. Mechanical: With case 2.16. Installation: Desk, wall-mounting</p> <p>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.</p> <p>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).</p> <p>(Please see attached quotation.)</p>				
8	Piece	<p>Depth Camera - Polarizer 1. GENERAL OVERVIEW 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. 1.2. The ABC is inclusive of government taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p>	2	P56,700.00	P113,400.00	RED

- 2.1. Part of the Prototype
- 2.2. Quantity: Two (2) pieces
- 2.3. Baseline: 120 mm (4.72’')
- 2.4. Lens Cover: PPMA
- 2.5. Video Output:
 - 2.5.1. 2K at 15 FPS with Output resolution side-by-side of 2x(2208x1242)
 - 2.5.2. 1080p at 30 or 15 FPS with Output resolution side-by-side of 2x(1920x1080)
 - 2.5.3. 720p at 60, 30 or 15 FPS with Output resolution side-by-side of 2x(1280x720)
 - 2.5.4. 376p at 100, 60, 30 or 15 FPS with Output 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

		<p>120°(D) max. (for 2.1mm)</p> <p>2.24. Polarizing Filter: Yes</p> <p>2.25. Sensor Resolution: Dual 4M pixels sensors with 2-micron pixels</p> <p>2.26. Sensor Format: Native 16:9 format for a greater horizontal field of view</p> <p>2.27. Sensor Size: 1/3" backside illumination sensors with high low-light sensitivity</p> <p>2.28. Shutter Sync: Electronic Synchronized Rolling Shutter</p> <p>2.29. Camera Controls: Adjust Resolution, Frame rate, Brightness, Contrast, Saturation, Gamma, Sharpness, Exposure and White Balance</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> <p>(Please see attached quotation.)</p>				
9	Set	<p>T-Nut - M3x10x6</p> <p>1. GENERAL OVERVIEW</p> <p>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.</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: Five (5) sets</p> <p>2.3. Each set contains: Ten (10) pieces</p> <p>2.4. Shape: Hammer Head</p> <p>2.5. Material: Carbon Steel</p> <p>2.6. Finish: Nickel plated or Zinc plated</p> <p>2.7. Thread Type: M3</p> <p>2.8. Length: 10 mm</p> <p>2.9. Width: 6 mm</p>	5	P60.00	P300.00	other Supplies

		<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> <p>(Please see attached quotation.)</p>				
10	Piece	<p>Depth Camera - IMU</p> <p>1. GENERAL OVERVIEW</p> <p>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.</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: Five (5) pieces</p> <p>2.3. Image Sensor Technology: Global Shutter</p> <p>2.4. Ideal Range: 0.3 m to 3 m</p> <p>2.5. Depth Technology: Stereoscopic</p> <p>2.6. Minimum Depth Distance (Min-Z) at max resolution: ~28 cm</p> <p>2.7. Depth Accuracy: <2% at 2m</p> <p>2.8. Depth Field of View (FOV): 87° × 58°</p> <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</p>	5	P33,800.00	P169,000.00	

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		<p>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> <p>(Please see attached quotation.)</p>				
11	Kilo	<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</p>	40	P850.00	P34,000.00	other supplies

		<p>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> <p>(Please see attached quotation.)</p>			
12	Piece	<p>Aluminum Extrusion - 2020</p> <p>1. GENERAL OVERVIEW</p> <p>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.</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: One (1) piece</p> <p>2.3. Material: 6063 T-5 Aluminum</p> <p>2.4. Colour: Black anodised / Silver anodised</p> <p>2.5. Profile: 20x20mm</p> <p>2.6. Length: 1200mm</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> <p>(Please see attached quotation.)</p>	1	P850.00	P850.00
13	Set	<p>XT60 Connector</p> <p>1. GENERAL OVERVIEW</p> <p>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.</p> <p>1.2. The ABC is inclusive of government taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p>	10	P100.00	P1,000.00

other
supplies

		<p>2.1. For Consumable Supplies</p> <p>2.2. Quantity: Ten (10) sets</p> <p>2.3. Each set contains:</p> <p>2.3.1. One (1) XT60 Male Connector</p> <p>2.3.2. One (1) XT60 Female Connector</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> <p>(Please see attached quotation.)</p>				
14	Piece	<p>Servo Motor - 45kg</p> <p>1. GENERAL OVERVIEW</p> <p>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.</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: Eight (8) pieces</p> <p>2.3. Working Voltage: 9V-12.6V</p> <p>2.4. Rotation Speed: 18sec/60° at 11.1V</p> <p>2.5. Locked Torque: 45kg.cm at 11.1V</p> <p>2.6. Static Maximum Torque: 45kg.cm at 11.1V</p> <p>2.7. Rotation Range: 0°-240°</p> <p>2.8. No-load Current: 100mA</p> <p>2.9. Stall Current: 3A</p> <p>2.10. Servo Accuracy: 0.2°</p> <p>2.11. Controllable Angle Range: 0~1000, corresponding to 0~240°</p> <p>2.12. Control Method: UART serial command</p> <p>2.13. Communication Baud Rate: 115200</p> <p>2.14. Storage: Save data when power off</p> <p>2.15. Servo ID: Can be set to 0~253, 1 by default</p>	8	₱2,600.00	₱20,800.00	LFD

		<p>2.16. Angle Read Back Function: Supported</p> <p>2.17. Protection: Avoid stalling and overheating</p> <p>2.18. Data Feedback: Temperature, voltage, position</p> <p>2.19. Working Mode: Servo mode and gear motor mode</p> <p>2.20. Gear Type: Metal gear</p> <p>2.21. Servo Wire Length: 20cm</p> <p>2.22. Connector: JST PH2.0-3P</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> <p>(Please see attached quotation.)</p>				
15	Piece	<p>Servo Motor - 125kg</p> <p>1. GENERAL OVERVIEW</p> <p>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: 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>	2	P39,990.00	P79,980.00	P65


	<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> <p>(Please see attached quotation.)</p>			
			TOTAL:	P557,940.00
(Total Amount in Words)			Five Hundred Fifty-Seven Thousand Nine Hundred Forty Pesos Only	

The contract price is inclusive of taxes and other fees or charges. In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed on the undelivered item/s. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of the contract, DOST-ASTI may rescind or terminate the contract, without prejudice to other courses of action and remedies available under the circumstances and in accordance with the provisions of the latest implementing rules and regulations of RA 9184.


Conforme:

Very Truly Yours,

(Signature over Printed Name of Supplier)


FRANZ A. DE LEON, Ph.D.
Director, DOST-ASTI

(Date)

Fund Cluster:	07	ORS / BURS No.:	023086012025-04-000086
Funds Available:	Php 557,940.00	ORS / BURS Date:	APRIL 14, 2025
		Amount:	₱ 557,940.00
<p> GAY CONCEPCION S. BUGAGAO Accountant III</p>			



07 April 2025

NOTICE TO PROCEED
ALTERNATIVE MODE OF PROCUREMENT

Mr. MIKE JASSEN T. SY
President
JASSEN HARRIS INDUSTRIES CORP.
1063 Tomas Mapua St., Brgy. 329 Zone 33
Sta. Cruz, Manila

Dear Mr. Sy,

This Notice to Proceed is hereby issued for the following contract details:

Contract Name	: Supply and Delivery of Six (6) Pieces Stepper Motor Driver and Other Items
Purchase Request No.	: FASTRACRoA-25-02-20740
Purchase / Work Order No.	: FASTRACRoA-25-04-001
Total Contract Price	: ₱557,940.00
(inclusive of taxes, import duties and all other charges or fees)	
Total Contract Price in Words	: Five Hundred Fifty Seven Thousand Nine Hundred Forty Pesos

Upon issuance of this Notice, your company, **JASSEN HARRIS INDUSTRIES CORP.** is hereby directed to commence the delivery of items and/or performance of services stipulated in the said Purchase Order which shall become due and demandable in accordance with the delivery schedule stipulated therein.

Please acknowledge receipt and acceptance of this Notice by signing in the space provided below. There are two (2) copies of this document; you may keep one copy and return the other to the Bids and Awards Committee (BAC) Secretariat of the Advanced Science and Technology Institute. Should you have any questions or clarifications, you may reach us at bac-sec@asti.dost.gov.ph.

Respectfully,


FRANZ A. DE LEON, Ph.D.
Director

Digitally
signed by
Jeffrey
Aborot

DATE OF ISSUANCE:

APR 15 2025

RECEIVED BY:

Signature over Printed Name

Date and Time

Postal Address : ASTI Bldg., U.P. Technology Park Complex,
CP Garcia Ave., Diliman, Quezon City 1101
Website : www.asti.dost.gov.ph
Email : info@asti.dost.gov.ph

Tel No. : +632 8249-8500
+632 8426-9755;
Fax No. : +632 8426-9764

ASTI-FM 03-19
REV 2 / 05 October 2023