



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.:	25-03-053
Address:	1063 Tomas Mapua St., Brgy. 329 Zone 33, Sta. Cruz, Manila, 1014	PO Date:	March 25, 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, National Engineering Center (NEC) – University of the Philippines (UP), Juinio Hall, corner Osmena Ave., 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	Lot	<p>Various Items for Prototype Development</p> <p>1. Objective</p> <p>1.1. DOST-ASTI is looking for qualified and competent bidders for the supply and delivery of various items for prototype development.</p> <p>1.2. The Approved Budget for the Contract (ABC) is inclusive of government taxes and other applicable charges.</p> <p>1.3. Prospective bidders must submit a breakdown of price quotations per item specified in 2. Technical Specifications.</p> <p>2. Technical Specifications</p> <p>2.1. Micro Servo Motor (ABC – P4,800.00)</p> <p>2.1.1. Quantity: At least twenty (20) pieces</p> <p>2.1.2. Rotation Angle: 0 - 180 degrees</p> <p>2.1.3. Working Torque: 2kg/cm</p> <p>2.1.4. Operating Voltage: 4.8V</p> <p>2.1.5. Gear Material: All Metal</p> <p>2.2. Battery Backup System - 10A (ABC – P29,250.00)</p> <p>2.2.1. Quantity: At least fifteen (15) pieces</p> <p>2.2.2. Output: 12V DC</p> <p>2.2.3. Max Current Output: 10A</p> <p>2.2.4. Input: 220V AC</p> <p>2.2.5. Includes LED Indicators and metal enclosure</p>	1	P126,800.00	P126,800.00

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

2.3. DC Motor (ABC – P23,550.00)
2.3.1. Quantity: At least fifteen (15) pieces
2.3.2. Working Voltage: 12V
2.3.3. Gear ratio: 43.8:1
2.3.4. No-load speed: 251 + 10% RPM
2.3.5. No-load current: 350 mA
2.3.6. Start Voltage: 1.0 V
2.3.7. Stall Torque: 18 Kg.cm
2.3.8. Stall Current: 7 A
2.3.9. Insulation resistance: 20MΩ
2.3.10. Encoder Operating Voltage: 5V
2.3.11. Encoder type: Hall or better
2.3.12. Encoder Resolution: 16CPR(motor shaft)/700CPR(gearbox shaft) or better

2.4. DC Motor Driver (ABC – P29,250.00)
2.4.1. Quantity: At least fifteen (15) pieces
2.4.2. Voltage supply: DC 7 ~ 24 V
2.4.3. Voltage supply limit: 6.5 ~ 27 V
2.4.4. Control signal Level (Compatible 3.3V/5V)
2.4.5. High: DC 3.0 ~ 6.5 V
2.4.6. Low: DC 0 ~ 0.8 V
2.4.7. Output Channel: 2
2.4.8. Control signal current: 3 ~ 11 mA (Each route)
2.4.9. Maximum continuous operating current: 7 A or better
2.4.10. Peak current: 50 A or better
2.4.11. Speed control: PWM
2.4.12. Minimum valid Pulse Width: 5 us
2.4.13. Mounting Hole: M3

2.5. Buck Converter (ABC – P31,700.00)
2.5.1. Quantity: At least twenty (20) pieces
2.5.2. Efficiency: 95% or better
2.5.3. Input Voltage: 11-35V DC
2.5.4. Output Voltage: 5V
2.5.5. Output Current: 15A or better
2.5.6. Ripple: 200mVp
2.5.7. Line Regulation: ±0.2%
2.5.8. Load Regulation: ±0.2%
2.5.9. Voltage Accuracy: ±1.5%
2.5.10. Enclosures: IP68
2.5.11. Certificates: CE, ROHS
2.5.12. 100% full rated power
2.5.13. 100% full stable output current
2.5.14. 100% burn-in test
2.5.15. Waterproof sealed
2.5.16. Cooling by free air convection
2.5.17. Surface mountable
2.5.18. Over-current, over-voltage protections
2.5.19. Over-temperature protection

2.6. Camera Board (ABC – P8,250.00)
2.6.1. Quantity: At least fifteen (15) pieces
2.6.2. Chipset: ESP32-based or better
2.6.3. Working voltage: DC 5V

		<p>2.6.4. SPI Flash: Default 32Mbit or better</p> <p>2.6.5. RAM: Internal 520KB + External 4MPSRAM or better</p> <p>2.6.6. Bluetooth: Bluetooth 4.2 BR/EDR and BLE standards or better</p> <p>2.6.7. Wi-Fi: 802.11 b/g/n/e/i or better</p> <p>2.6.8. Support interfaces: At least UART, SPI, I2C, PWM</p> <p>2.6.9. Supporting TF Card: Supports 4G or better</p> <p>2.6.10. IO port: At least 9</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 within seven (7) calendar days upon receipt of notice from the end-user or DOST-ASTI Property and Supply Section.</p> <p>3.3. Warranty Period: At least three (3) months.</p> <p>4. Payment and Delivery Terms</p> <p>4.1. Price is inclusive of government taxes, delivery charges, etc.</p> <p>4.2. Items must be delivered at most 45 calendar days upon receipt of NTP/PO to DOST-ASTI Extension Office, National Engineering Center (NEC) – University of the Philippines (UP), Juinio Hall, corner Osmena Ave., Diliman, Quezon City.</p> <p>(Please see attached quotation.)</p>			
2	Lot	<p>Various Technical Supplies and Tools</p> <p>1. Objective</p> <p>1.1. DOST-ASTI is looking for qualified and competent bidders for the supply and delivery of various technical supplies and tools.</p> <p>1.2. The Approved Budget for the Contract (ABC) is inclusive of government taxes and other applicable charges.</p> <p>1.3. Prospective bidders must submit a breakdown of price quotations per item specified in 2. Technical Specifications.</p> <p>2. Technical Specifications</p> <p>2.1. 3D Printing Filament - PETG (ABC – P15,400.00)</p> <p>2.1.1. Consumable technical supply</p> <p>2.1.2. Quantity: At least twenty (20) pieces</p> <p>2.1.3. Weight: 1kg</p> <p>2.1.4. Diameter: 1.75mm</p> <p>2.1.5. Material: PETG</p> <p>2.1.6. Color: To be determined by enduser</p>	1	P145,015.00	P145,015.00

	<p>2.2. 3D Printing Filament – PETG, 2.5kg (ABC – P27,450.00)</p> <p>2.2.1. Consumable technical supply</p> <p>2.2.2. Quantity: At least fifteen (15) pieces</p> <p>2.2.3. Weight: 2.5kg</p> <p>2.2.4. Diameter: 1.75mm</p> <p>2.2.5. Material: PETG</p> <p>2.2.6. Color: To be determined by enduser</p> <p>2.3. 3D Printing Filament – PLA+ (ABC – P15,600.00)</p> <p>2.3.1. Consumable technical supply</p> <p>2.3.2. Quantity: At least twenty (20) pieces</p> <p>2.3.3. Weight: 1kg</p> <p>2.3.4. Diameter: 1.75mm</p> <p>2.3.5. Material: PLA+</p> <p>2.3.6. Color: To be determined by enduser</p> <p>2.4. 3D Printing Resin – Tough (ABC – P25,300.00)</p> <p>2.4.1. Consumable technical supply</p> <p>2.4.2. Quantity: At least ten (10) pieces</p> <p>2.4.3. Weight 1kg</p> <p>2.4.4. Hardness: 81D or better</p> <p>2.4.5. High Toughness</p> <p>2.4.6. Wear Resistance</p> <p>2.4.7. High Impact Strength</p> <p>2.4.8. High Mechanical Properties</p> <p>2.4.9. Good Stability</p> <p>2.4.10. Fast Curing</p> <p>2.4.11. Excellent Fluidity</p> <p>2.4.12. High Successful Rate</p> <p>2.4.13. Color: To be determined by enduser</p> <p>2.5. Printer Ink (ABC – P9,100.00)</p> <p>2.5.1. Consumable technical supply</p> <p>2.5.2. Quantity: At least two (2) sets</p> <p>2.5.3. Compatible with Epson L6490 (008)</p> <p>2.5.4. Genuine product</p> <p>2.5.5. Pigment Ink</p> <p>2.5.6. One set includes Black, Cyan, Magenta, Yellow</p> <p>2.6. Timing Pulley – 20T (ABC – P6,400.00)</p> <p>2.6.1. Consumable technical supply</p> <p>2.6.2. Quantity: At least twenty (20) pack</p> <p>2.6.3. No. of teeth: 20</p> <p>2.6.4. Bore: 8mm</p> <p>2.6.5. 2pcs per pack</p> <p>2.7. Powered Precision Driver (ABC – P2,350.00)</p> <p>2.7.1. Quantity: At least one (1) set</p> <p>2.7.2. Maximum torque (level I): 0.05Nm or better</p> <p>2.7.3. Maximum torque (level II): 0.2Nm or better</p>				
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- 2.7.4. Maximum manual torque: 3Nm
- 2.7.5. Charging: 5V=0.14A
- 2.7.6. Rated voltage: 3.7=
- 2.7.7. Lithium battery: 350mAh
- 2.7.8. Bit Parameters
- 2.7.8.1. Screwdriving bit specifications: C4 x 28mm, C4 x 45mm
- 2.7.8.2. Screwdriving bit material: S2 steel
- 2.7.8.3. Phillips head: PH000/PH00/PH0/PH1
- 2.7.8.4. Pentagonal: P2/P5
- 2.7.8.5. Hex: H0.7/H0.9/H1.5/H2.0
- 2.7.8.6. W Type: W1.5
- 2.7.8.7. Slotted: SL1.5/SL2.0
- 2.7.8.8. Y Type: Y0.6/Y1
- 2.7.8.9. Torx: T2/T3/T4
- 2.7.8.10. Tri-wing: 2.3
- 2.7.8.11. Torx with pin hole: TH5/T6H/T8H/T9H/T10H
- 2.7.8.12. Note: C4 x 45mm for PH0/PH1/SL2.0/T8H/T10H/H2.0, C4 x 28mm for all other types
- 2.7.9. Package Contents:
- 2.7.9.1. Storage container x1
- 2.7.9.2. Electric Precision Screwdriver x1
- 2.7.9.3. Screwdriving bit x24
- 2.7.9.4. Type-C charging cable x1
- 2.7.9.5. User manual x1

- 2.8. Desoldering Iron (ABC – P395.00)
- 2.8.1. Quantity: At least one (1) piece
- 2.8.2. Rated Voltage: 220V~240V/AC,50Hz
- 2.8.3. Rated Power: 30W or better
- 2.8.4. Nozzle diameter: 1.2mm

- 2.9. Air Brush Set (ABC – P4,190.00)
- 2.9.1. Quantity: At least one (1) set
- 2.9.2. Main material: aluminum+nylon+plastic
- 2.9.3. Output voltage: 12V
- 2.9.4. Input voltage: 110-230V
- 2.9.5. Gas flow: 12LPM or better
- 2.9.6. Max Gas pressure: 30PSI or better
- 2.9.7. Airbrush Nozzle: 0.3mm / 0.01in
- 2.9.8. Fluid cup capacity: 7cc or better
- 2.9.9. Diameter of hose: 1/8"
- 2.9.10. Hose length: 1.8m / 70.9in or better
- 2.9.11. Package List
- 2.9.11.1. 1 * Dual-Action 0.3mm Airbrush
- 2.9.11.2. 1 * Dropper
- 2.9.11.3. 1 * Mini Wrench
- 2.9.11.4. 1 * Black Air Brush Holder
- 2.9.11.5. 1 * Air Compressor
- 2.9.11.6. 1 * Instruction Manual for Air Compressor
- 2.9.11.7. 1 * Mini Air Filter
- 2.9.11.8. 1 * Air Hose
- 2.9.11.9. 1 * AC Transformer

2.9.11.10. 1 * Airbrush Needle Tool
2.9.11.11. 5 * Air Brush Cleaning Needle
2.9.11.12. 5 * Brush
2.9.11.13. 1 * Adjustable Fast Joint
2.9.11.14. 1 * 0.2mm nozzle and needle
Nozzle cap

2.10. Trigger Clamp (ABC – P2,650.00)
2.10.1. Quantity: At least one (1) lot
2.10.2. More-nimble version of the
ratcheting bar clamp
2.10.3. Easy to reverse jaws turns clamp
into spreading clamp or stretching tool
2.10.4. Soft PVC pads provide superior grip
and protect delicate finishes
2.10.5. Hardened steel bar, rust resistant
black oxide finish
2.10.6. Structure: F Clamp
2.10.7. Material: Stainless Steel
2.10.8. Usage: Heavy Duty & Woodworking
2.10.9. Lot includes
2.10.9.1. 4 x 4" Clamp
2.10.9.2. 4 x 6" Clamp
2.10.9.3. 4 x 12" Clamp

2.11. Nylon Spring Clamp (ABC –
P2,950.00)
2.11.1. Quantity: At least one (1) lot
2.11.2. Material: Nylon, steel
2.11.3. Heavy-duty spring provides strong
grip, anti-slip handle design
2.11.4. Ergonomic handle, comfortable to
hold
2.11.5. Photography, backgrounds,
woodworking and more
2.11.6. Lot includes:
2.11.6.1. 8 x 2" Clamp
2.11.6.2. 8 x 4" Clamp
2.11.6.3. 8 x 6" Clamp

2.12. Miter Saw (ABC – P16,350.00)
2.12.1. Quantity: At least one (1) unit
2.12.2. 10" Sliding Compound Miter Saw
2.12.3. Can cut wood, steel, aluminum
(100% pure copper motor)
2.12.4. Voltage: 220-240V~50/60Hz
2.12.5. Input power: 2300W
2.12.6. No-load speed: 6000rpm
2.12.7. Blade size: 255mm(10")
2.12.8. Aluminum base
2.12.9. With Dust bag to keep work area
clean
2.12.10. Mitre cuts 0-45°left and right
2.12.11. Bevel cuts up to 45°to the left
2.12.12. Double bar for smooth sliding
2.12.13. Infrared laser positioning, precise
ruler positioning, auxiliary cutting position,
cutting at different angles

2.12.14. Transparent guard protects the blade for added safety and opens every time a workpiece is cut to prevent contact with the blade

2.12.15. Enlarge the workpiece surface and improve the cutting efficiency of large objects

2.13. Step Drill Bit (ABC – P385.00)

2.13.1. Quantity: At least one (1) set

2.13.2. Material: high quality HSS steel

2.13.3. Ideal for cutting holes in a variety of materials including steel, brass, wood, plastic, etc.

2.13.4. Titanium coated to reduce heat

2.13.5. Heat treated and highly polished.

Drills perfectly round holes in steel, brass, plastic, wood etc.

2.13.6. Two flute design drives faster, smoother and cleaner cuts each step is clearly labeled with the depth diameter in steps

2.13.7. Set includes

2.13.7.1. 1 x Drill Bit 3-12mm

2.13.7.2. 1 x Drill Bit 4-12mm

2.13.7.3. 1 x Drill Bit 4-20mm

2.14. Hole Saw Bit (ABC – P810.00)

2.14.1. Quantity: At least one (1) set

2.14.2. Can be used for drilling thru drywall, plastic, MDF, thin aluminum and plywood

2.14.3. Cuts smooth, clean and accurate holes

2.14.4. Set includes

2.14.4.1. Storage case

2.14.4.2. 1 x 3/4"(19mm)

2.14.4.3. 1 x 7/8"(22mm)

2.14.4.4. 1 x 1-1/8"(29mm)

2.14.4.5. 1 x 1-1/4"(32mm)

2.14.4.6. 1 x 1-1/2"(38mm)

2.14.4.7. 1 x 1-3/4"(44mm)

2.14.4.8. 1 x 2"(51mm)

2.14.4.9. 1 x 2-1/2"(64mm)

2.14.4.10. 2pcs arbors

2.14.4.11. 1pc hex key wrench: 2.5mm

2.15. Deburring Tool (ABC – P510.00)

2.15.1. Quantity: At least two (2) pieces

2.15.2. Quickly removes burrs from nylon, ABS and PLA without melting the filament

2.15.3. Wide range of applications, can be used for plastic trimming, removing internal and external burrs, metal trimming, round hole trimming

2.15.4. Replaceable blade

2.15.5. The handle can be loaded with a blade for easy carrying

2.15.6. Packing List

2.15.6.1. 1 * Burr Remover
2.15.6.2. 10 * Deburr Blades

2.16. Side Cutting Pliers (ABC – P395.00)
2.16.1. Quantity: At least five (5) pieces
2.16.2. Spring loaded for easy use
2.16.3. Automatic rebound function
2.16.4. 45degree angle use in tight spaces
2.16.5. Carbon steel hardening treatment
2.16.6. Light weight, thin profile and easy handling insulate grips comfortable for operation
2.16.7. Suitable for cutting wire, trimming plastic products, cutting small metal wire, etc.
2.16.8. Used in electronic industry repair, jewelry processing, model making, fishing, etc.

2.17. Hacksaw Blade (ABC – P630.00)
2.17.1. Quantity: At least three (3) sets
2.17.2. 12inch or 300mm blades designed to fit most hacksaw frames
2.17.3. Idea for cutting steel, aluminum, plastic and other hard materials
2.17.4. Made of HSS M2/D6A Bi-Metal
2.17.5. Blade size: 12inch x ½inch
2.17.6. Teeth per inch: 24
2.17.7. Package quantity: 2 blades per set

2.18. Multi-purpose Spray (ABC – P1,620.00)
2.18.1. Quantity: At least three (3) pieces
2.18.2. Volume: 412ml
2.18.3. Protects metal from rust and corrosion, penetrates stuck parts, displaces moisture, and lubricates just about anything
2.18.4. Cleans and protects power tools, precision tools, heavy-duty drills, saws
2.18.5. Drives moisture from spark plug, electrical wiring
2.18.6. Helps remove road tar stains and scuff marks from cars

2.19. Contact Cleaner Spray (ABC – P1,150.00)
2.19.1. Quantity: At least two (2) pieces
2.19.2. Volume: 360ml
2.19.3. Dielectric strength up to 35,000* Volts per 0.1 inch
2.19.4. Fast-acting, non-conductive cleaner
2.19.5. Penetrates quickly, fast drying and leaves no residue
2.19.6. RoHS compliant
2.19.7. Perfect for cleaning electrical equipment, contacts and plastics

2.20. Silicone Lubricant Spray (ABC – P1,060.00)
2.20.1. Quantity: At least two (2) pieces
2.20.2. Volume: 360ml
2.20.3. Non-staining, hard-working formula which provides excellent lubrication without attracting dirt
2.20.4. Protects against moisture
2.20.5. Stops parts from sticking and can be used on high pressure equipment
2.20.6. Withstands temperatures of -73°C to +260°C
2.20.7. Prevents parts from sticking, waterproofs and protects against moisture
2.20.8. Excellent lubrication on metal, plastic, rubber and vinyl
2.20.9. ROHS Compliant

2.21. Epoxy Syringe (ABC – P3,750.00)
2.21.1. Quantity: At least three (3) pieces
2.21.2. Volume: 25ml
2.21.3. Specially formulated two-part adhesive and epoxy filler system
2.21.4. Can bond a variety of surfaces, such as metal, composites, fiberglass and others
2.21.5. Sets in 5 minutes at room temperature and is fully cured in 1 hour
2.21.6. Tensile strength of 3900 PSI
2.21.7. Cures clear
2.21.8. Syringe-type

2.22. Putty Spray (ABC – P3,750.00)
2.22.1. Quantity: At least five (5) pieces
2.22.2. Volume: 300ml
2.22.3. Type: Putty Primer

2.23. Plastic Primer Spray (ABC – P2,820)
2.23.1. Quantity: At least six (6) pieces
2.23.2. Volume: 400cc or better
2.23.3. Best adhesion on plastic substrates such as auto bumpers, spoiler, rigid rubber parts, plastic appliances and various plastic parts
2.23.4. Acts as adhesion primer on most hard to adhere substrates including aluminum, leather, vinyl, and most plastic, namely PP, ABS, PS, PE, etc.
2.23.5. Can be top coated with acrylic or alkyd paints as desired

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 within seven (7) calendar days upon receipt of notice from the end-user or DOST-ASTI Property and Supply Section.
3.3. Warranty Period: At least three (3)


		months.			
		4. Payment and Delivery Terms 4.1. Price is inclusive of government taxes, delivery charges, etc. 4.2. Items must be delivered at most 45 calendar days upon receipt of NTP/PO to DOST-ASTI Extension Office, National Engineering Center (NEC) – University of the Philippines (UP), Juinio Hall, corner Osmena Ave., Diliman, Quezon City. (Please see attached quotation.)			
				TOTAL:	P271,815.00
		(Total Amount in Words)		Two Hundred Seventy One Thousand Eight Hundred Fifteen 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. Digitally signed by Jeffrey Aborot

Director, DOST-ASTI

(Date)

Fund Cluster:	<u>01</u>	ORS / BURS No.:	<u>021011012025-03-000207</u>
Funds Available:	<u>Php 271,815.00</u>	ORS / BURS Date:	<u>MARCH 26, 2025</u>
		Amount:	<u>P 271,815.00</u>
<div> GAY CONCEPCION S. BUGAGAO _____ Accountant III</div>			



25 March 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 One (1) Lot Various Items for Prototype Development and One (1) Lot Various Technical Supplies and Tools
Purchase Request No.	: GAA-25-02-20666
Purchase / Work Order No.	: 25-03-053
Total Contract Price	: Php 271,815.00
(inclusive of taxes, import duties and all other charges or fees)	
Total Contract Price in Words	: Two Hundred Seventy One Thousand Eight Hundred Fifteen 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

DATE OF ISSUANCE:

MAR 28 2025

RECEIVED BY:

Signature over Printed Name

Date and Time