



ASTI-FM 03-10  
REV 2 / 13 MAR 2019

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

<b>Kind of Procurement Activity:</b>	Negotiated Procurement: Small-value Procurement		
<b>Deadline of Submission of Bids:</b>	Nov-25-2019, 2:00 PM		
<b>RFQ No.:</b>	19-11-3016	<b>Date:</b>	November-19-2019
<b>PR No.:</b>	EPIIC P2-19-11-9217	<b>Date:</b>	October-14-2019

The Department of Science and Technology (DOST) - Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), intends to procure the item/s listed below. As such, suppliers, contractors, or distributors are invited to submit their quotation/s duly signed by authorized representative. Prospective bidder/s who will submit a proposal with the single/lowest calculated and responsive quotation shall be selected. Guidelines on the format and eligibility documents are listed at the box below the item/s to be procured.

Quotations may be sent via **a)** electronic mail at bac-sec@asti.dost.gov.ph, **b)** fax message, or **c)** delivering documents to the BAC Secretariat. For further inquiries, you may contact +63 2 249-8500 local 1206/1212 or +63 2 426-7423.

Thank you.

Respectfully,  
  
**PEDRITO B. MANGAHAS**  
Chairperson, BAC-1

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<p><b>Supply and Delivery of One (1) lot 3D Printers for Rapid Prototyping Upgrade</b></p> <p>This lot includes:</p> <p>I. Four (4) units 3D Printer DIY Kit (Printing Size: 220*220*250mm) with the ff specifications:</p> <p>A. Basic specifications:</p> <ol style="list-style-type: none"> <li>1. Modeling Technology: FDM (Fused Deposition Modeling)</li> <li>2. Power Supply: UL certified power supply</li> <li>3. Printing Size: 220*220*250mm</li> <li>4. Machine Size: approx. 440*420*465mm</li> <li>5. Package weight: approx. 8.9kg</li> <li>6. Printing Speed: &lt;math&gt;\leq 180\text{mm/s}&lt;/math&gt;, normal 60mm/s</li> <li>7. Printing Precision: +/- 0.1mm</li> <li>8. Filament: 1.75mm ABS, PLA, TPU, wood, copper, gradient, etc.</li> <li>9. Input: AC 200-240V 50-60Hz</li> <li>10. Output: DC 24V 270W</li> <li>11. Nozzle diameter: Standard 0.4mm, can be in 0.2 or 0.3 mm</li> <li>12. File Format: STL, OBJ, AMF</li> <li>13. Slice Software: Cura, Repetier-Host, Simplify3D or equivalent</li> <li>14. Working Mode: Online or SD card (offline)</li> <li>15. Max Nozzle Temperature: 255 deg Celsius</li> <li>16. Max Hotbed Temperature: 110 deg Celsius</li> </ol> <p>B. Features:</p>	1	lot	360000.00	360,000.00

1. MAGNET BUILD SURFACE PLATE: Provide all-round protection to the 3D printer build plate and ensure consistent temperature throughout the build surface. Easy to remove the printing models after cooling.

2. SAFE POWER SUPPLY: 3D Printer comes with a UL Certified power supply, protecting the printer from unexpected power surges, that can heat the hotbed to 110°C in just 5 minutes.

3. RESUME PRINT FUNCTION: 3D Printer can resume printing from the last recorded extruder position after suffering unexpected power outages.

4. SEMI-ASSEMBLED KIT: Several assembled parts to allow users to learn about the basic construction of 3D printers while putting it together.

C. Each Unit Package Includes:

1. Assembly Kit: Base Frame, Power Supply, Display Screen, Motor, Profile, Screw Rod, Z Passive Block, X kit, Filament Holder, Spatula, etc.

2. Accessory Tools: Pliers, nozzles, SD Card, Pneumatic Fittings, Cable Ties, Allen keys, Needle for Nozzle, Wrench, PTFE Tube, etc.

3. Manual

II. Four (4) units 3D Printer DIY Kit (Printing Size: 350\*350\*400mm) with the ff specifications:

A. Basic specifications:

1. Modeling Technology: FDM (Fused Deposition Modeling)

2. Printing Size: 350\*350\*400mm

3. Machine Size: approx. 632\*666\*619mm

4. Package weight: approx. 23.8KG

5. Display: 4.3 inch

6. Printing Precision: +/- 0.1mm

7. Filament: 1.75mm PLA, ABS, Soft Glue, Wooden, Copper Containing, Gradient, etc.

8. Power Parameters: Input: 100-240V AC; Output: DC 24V 21A; Max25A

9. Nozzle diameter: Standard 0.4mm, can be in 0.2 or 0.3 mm

10. File Format: STL, OBJ, Slicing

11. Slice Software: Cura, Repetier-Host, Simplify3D or equivalent

12. Working Mode: Online or SD card (offline)

13. Max Nozzle Temperature: 260 deg Celsius

14. Max Hotbed Temperature: 110 deg Celsius

B. Features:

1. Cube Frame 3D Printer: Very solid cube frame. Box designed with overhead gantry.

2. Ultra Large Printing Format: 350X350X400mm.

3. Auto Bed Leveling Pre-Installed: just plug it in and start printing. It can precisely measure the tilt of the Bed surface, offers the automatic compensation for Z-axis for unevenness of the platform plate, easy to solve the printing failure caused by the unevenness of the platform and provide reliable operation with all build surfaces.

4. Top frame features: Dual Y-axis stepper motor and

equipped with a 42-48 motor. Dual Y-axis Synchronization. Strong Power Support and Smoother transmission, flexible and reliable.

5. Dual Z-Axis: Stable Z-axis where movement of the build plate will be more stable.

6. Resume Print Function: 3D Printer can resume printing from the last recorded extruder position after suffering unexpected power outages.

7. With Filament End Sensor.

C. Each Unit Package Includes:

1. Assembly Kit: Bottom Frame, Top Frame, Z-axis Frame, Aluminum Profiles (4pcs), Hotbed with Tempered Glass, Filament Holder, 200G Filament, etc.

2. Accessory Tools: Spatula, Pliers, Nozzle, SD Card, Pneumatic Fittings, Allen keys, Wrench, Screw, Bolts and Nuts, Power cord, etc.

3. Manual

III. Three (3) units of 3-in-1 Modular Machine DIY Kit (3D Printer, Laser Engraving and CNC Cutting) with the ff specifications:

A. Technical specifications:

a) Basic Parameters:

1. Machine weight: approx. 10kg

2. Touch Screen Display: 4.3 inch

3. Working Mode: Online or SD card (offline)

4. Power Supply: Input: 100-240V AC; Output: 24V

5. Operating System: Compatible with WINDOWS, MAC, LINUX

6. Motor: 42-40 stepper motor, 42-34 threaded rod motor, step angle 1.8deg

b) 3D Printing Parameters:

1. Modeling Technology: FDM (Fused Deposition Modeling)

2. Printing Size: 220\*220\*200mm

3. File Format: STL, OBJ, AMF

4. Slicing Software: Cura, Simplify3D

5. Supported Filament: 1.75mm diameter ABS, PLA, TPU, PVA, etc.

6. Nozzle diameter: Standard 0.4mm, can be in 0.6, 0.8 mm, 1.0mm and 1.2mm

7. Printing Precision: +/- 0.1mm

8. Printing Speed: 10-80mm/s

9. Hotbed Temperature: <= 100deg Celsius

10. Layer Thickness: 0.1-0.4mm

c) CNC Cutting Parameters:

1. Cutting Size: 200\*200mm

2. Supported Materials: wood, paper, PCB, plastic, etc.

3. File Format: SVG, BMP, NG, PG, DXF

4. Spindle Speed: 4,800rpm Max

5. Standard Cutter Size; HRC55 tungsten steel milling cutter 4F 4\*1

6. Drill Chuck Clamping Range: 0-4mm

d) Laser Engraving Parameters:

1. Engraving Size: 200\*200mm

2. Supported Materials: wood, paper, plastic, feather, etc.

3. File Format: SVG, BMP, NG, PG, DXF
4. Laser Power: Less than 0.5W

B. Key Features:

1. 3-in-1 Modular Machine with 3D Printing, Laser Engraving and CNC Cutting Features.
2. Resume Print Function: 3D Printer can resume printing from the last recorded extruder position after suffering unexpected power outages.

C. Each Unit Package Includes:

1. Assembly Kit: Base Frame, Gantry Frame, Engraving Platform, Modular Machine Heads (3D Printer, CNC Cutting and Laser Engraving), Filament, and Accessory Tools.
2. Manual

IV. This lot includes the following accessories and supplies for 3D Printing:

1. 5 sets of Extra fiberglass bed and sticker for the 3D Printer DIY Kit with Printing Size: 220\*220\*250mm
2. 20 units of Extra nozzles (10 each for sizes: 0.4mm, 0.8mm)
3. 7 rolls (1 kg/roll) of 1.75mm diameter PLA Filament (1 roll for each Color: white, yellow, blue, red, green, black, gray)
4. 7 rolls (1 kg/roll) of 1.75mm diameter TPU Filament (1 roll for each Color: white, yellow, blue, red, green, black, gray)
5. 7 rolls (1 kg/roll) of 1.75mm diameter ABS filament (1 roll for each Color: white, yellow, blue, red, green, black, gray)
6. 6 units of 1.67 fl.oz All-in-One Adhesive for 3D Printing
  - a) Easy application with adhesive in a Glue-stick container
  - b) Compatible with the following filaments: PLA / ABS / HIPS / PETG / Taulman Nylon, etc.
  - c) Non-toxic and odorless
7. 5 units of Tempered Glass Plate Platform Heated Bed Build Surface for the 3D Printer DIY Kit with Printing Size: 220\*220\*250mm
  - a) Size: 235\*235\*3mm
  - b) Material: Tempered glass
  - c) Application: For the 3D Printer DIY Kit with Printing Size: 220\*220\*250mm
8. 5 kits of Auto-Leveling sensor kit for the 3D Printer DIY Kit with Printing Size: 220\*220\*250mm
  - a) Features:
    - i. an auto leveling sensor for 3D Printers that can precisely measure the tilt of Bed surface. It could work with any kinds of bed materials, such as glasses, woods, metals, and so on.
    - ii. Simple structure and high precision by using progressively designed solenoid and hall sensor.
    - iii. With smart functions, such as self-test, alarm, alarm release & Touch Switch mode, Blue LED for servo signal indicating and Z-probe(Zmin) Testing.
  - b) Specifications:
    - i. Voltage: 5V

- ii. Current: 15mA
- iii. Maximum(Peak) Current: 300mA
- iv. Case Material: Polycarbonat(PC)
- v. Case Color: Semitransparent White
- vi. Cable Length: 150mm
- vii. PCB & Soldering: RoHS, Lead Free (Pb Free)
- c) Kit includes:
  - i. Sensor
  - ii. Connectors
  - iii. Cable Ties
  - iv. Rack
  - v. Pinboard A
  - vi. ISP Pinboard
  - vii. Burner
  - viii. Screws
- 9. 10-meter Bowden PTFE Tubing for 1.75mm filament for 3D Printing:
  - a) Cross Section Dimension
    - i. Inner Diameter: 1.95mm ± 0.05mm
    - ii. Outside Diameter: 4.0mm

V. Delivery Terms:

1. Delivered to: ASTI Bldg., UP Technology Park Complex, CP Garcia Avenue, Diliman, Quezon City, Philippines
2. Delivery Date: On or Before December 6, 2019  
(Note: delivery beyond this date will be subject to availability of funds)

VI. Warranty: 1 month from the date of delivery

VII. Bid price should be inclusive of all costs necessary (permits, taxes and duties, etc.) DDP. DDP will be based on the rules of Inco terms 2010.

**TOTAL APPROVED BUDGET FOR THE CONTRACT:**

**Php 360,000.00**

**GUIDELINES**

**A. Submission of Quotations**

1. Quotation/s shall include the Request for Quotation and/or the Purchase Request Number as state above;
2. Pictures or brand/model names or numbers, if applicable, should be specified in the quotation/s; and
3. Quotation/s must be signed by the company's duly authorized representative.

**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, as amended by Government Procurement Policy Board Resolution No. 21-2017 dated 30 May 2017, 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
  - ✓ PhilGEPS Platinum Membership Certificate including Annex "A". If not available, the following alternate documents may be submitted:
    - PhilGEPS Registration Number

- Mayor's Permit
  - For individuals/professionals engaged under Section 53.6, 53.7 and 53.9 of the 2016 IRR of RA No. 9184, only the Bureau of Internal Revenue (BIR) Certificate of Registration shall be submitted in lieu of the Mayor's Permit.

2. Upon issuance of Notice of Award (NOA)

- ✓ Omnibus Sworn Statement
  - Applicable only for bidders who have submitted their quotation on item/s with a total Approved Budget for the Contract (ABC) of above Php50,000.00.
- ✓ Income/Business Tax Return
  - Applicable only for: **a)** bidders who have submitted their quotation on item/s with a total ABC of above Php500,000.00; and **b)** bidders for Lease of Real Property and Venue (except for government agencies as lessors).

**For Procurement of Infrastructure**

1. The requirements for Goods with the same submission indicated therein; and
2. Valid Philippine Contractors Accreditation Board License.

**For Procurement of Consulting Services**

1. The requirements for Goods with the same submission indicated therein; and
2. Valid Professional Regulation Commission License or Curriculum Vitae.

**NOTE:** For new suppliers, submit a BIR Certificate of Registration for accounting purposes.

**C. Terms and Conditions**

1. Additional requirements, if necessary, may be requested by the BAC depending on the item to be bid;
2. For all kinds of procurement, the bidder who passed the bid evaluation, shall submit a duly notarized Omnibus Sworn Statement upon issuance of NOA, unless otherwise provided;
3. All transactions are subject to creditable withholding tax and final Value Added Tax or percentage tax per revenue regulation/s of the BIR;
4. A penalty of one-tenth of one percent (0.001) of the total value of the undelivered goods/services shall be charged as liquidated damages for every day of delay of the delivery; and
5. The DOST-ASTI reserves the right to accept or reject any proposal, to annul the bidding process, and to reject all proposals at any time prior to contract award, without thereby incurring any liability to the affected proponent or proponents.