



ASTI-FM 03-11  
REV 1/13 January 2020

**DOST-ASTI Bids and Awards Committee  
Invitation to Bid (Public Bidding)**

<b>ITB No:</b>	21-08-3500	<b>Date:</b>	August-02-2021
<b>PR No:</b>	GAA-21-06-11591	<b>Date:</b>	June-11-2021
<b>Source of Funds:</b>			
<b>Total ABC:</b>	Php 1,704,435.82		
<b>Time, Date &amp; Venue of Pre-bid Conference:</b>	August 11, 2021, 9:00 AM at Via videoconferencing		
<b>Time and Date of Submission of Bids:</b>	August 23, 2021, 10:00 AM		
<b>Time, Date &amp; Venue of Opening Bids:</b>	August 23, 2021, 10:30 AM at DOST-ASTI and Videoconferencing		
<b>Date of availability of Complete Set of Documents:</b>	August 03, 2021		
<b>Deadline of Potential Bidder's Clarifications:</b>	August 13, 2021		
<b>Deadline of ASTI's Supplemental Bid Bulletin:</b>	August 16, 2021		
<b>Delivery Schedule:</b>			

The Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), hereby invites all interested bidders to submit their bids for the item(s) listed below. Guidelines regarding the format, eligibility, technical and financial documents needed are described in the Instruction to Bidders of the Philippine Bidding Documents

Bidding will be conducted through open competitive bidding procedures using a non discretionary "pass/fail" criterion as specified in the 2016 R-IRR of RA 9184.

A complete set of Bidding Documents may be purchased by interested bidders upon payment of a fee for the Bidding Documents. It is also downloadable for free of charge at DOST-ASTI's website - [www.asti.dost.gov.ph](http://www.asti.dost.gov.ph)

For further inquiries, contact ASTI's BAC Secretariat via email at [bac-sec@asti.dost.gov.ph](mailto:bac-sec@asti.dost.gov.ph). Interested bidders may also call the number - (632)-426-7423 and look for ASTI's BAC Secretariat.

Respectfully,

**GERWIN P. GUBA**  
BAC Chairman

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<p><b>Radiofrequency, microwave, high speed digital, wireless Electronic Design Automation (EDA) and Simulation Software Subscription</b></p> <p>I. One (1) 12-month license-based subscription of an enterprise-level radiofrequency, microwave, high speed digital, wireless Electronic Design Automation (EDA) and simulation software with the following built-in capabilities:</p> <ol style="list-style-type: none"> <li>1. Provide a design environment for creating schematics, perform simulations and managing projects</li> <li>2. Integrated with schematic tool for generating RF and microwave layouts</li> <li>3. Able to perform the following basic simulations:</li> <li>4. Linear system S-parameters, DC, and small signal AC analysis</li> </ol>	1	lot	1704435.82	1,704,435.82

5. Non-linear system simulator for radiofrequency (RF) system
6. Statistical simulations
7. Provide design guide in designing and synthesizing filters, matching network, and other components
8. Able to display data and allow users to manipulate and plot data
9. Has support for tuning and optimizing designs for performance and yield
10. Has tools for layout editing and creating high-frequency layouts for RF printed circuit board, RF module, and monolithic microwave IC
11. Must support industry-standard file format such as: Gerber, DXF, GFSOO, and ODB++
12. Can synchronize schematic and layout to update changes in either file, automatically or manually (user-controlled)
13. Allow environment customization and user-defined macros for layout
14. Able to perform harmonic balance simulation and optimization for non-linear circuits and systems
15. Capable of performing various analyses such as load- and source-pull, phase-noise, etc.
16. Provide guide for designing, synthesizing, and simulating non-linear systems such as power amplifier, mixer, oscillators, etc.
17. Includes model development kit to allow users to develop customized non-linear models
18. Include 3D planar electromagnetic simulator using method of moments
19. Microwave full-wave or RF quasi-static mode EM simulation based on user selection
20. Allow multi-threaded simulations to speed up processing
21. Allow 3D visualization of surface currents and antenna radiation
22. Provide model for dielectric loss (frequency dependent), conductor surface roughness, via, wire bond, etc.
23. Able to find all resonant frequencies across the full simulation frequency band automatically

#### II. Additional requirements:

1. Operating system: Supports both latest Linux and Windows operating systems
2. Technical Support:
  - 2.1. Online knowledge support
    - 2.1.1. Logs support case online
    - 2.1.2. Tracks support case
  - 2.2. On-phone support (during office hours)
  - 2.3. Application engineer support

#### III. Others:

1. Specifications listed for each item above are implicitly implied to be minimum specifications. Bidders are encouraged to propose better specifications in their bids so long as it does not deviate too much for the intent of the original specifications.
2. The winning bidder must provide the necessary technical support during the installation and testing of the software.

<p>3. The winning bidder is required conduct a workshop/training about the operation of the software and provide the corresponding documentation. The workshop should include but not limited to the scope and limitation of the software</p> <p>3.1.1. Participants: at most 10 people</p> <p>3.1.2. Duration: 1-3 days</p> <p>3.1.3. All costs related to the workshop will be shouldered by the winning bidder. These include but not limited to, lease of venue, meals, transportation of participants to and from the training venue, workshop fees, etc.</p> <p>3.1.4. ASTI may, at its discretion, prefer to conduct the training in its office premises. In that case, the lease of venue may be waived.</p> <p>3.1.5. The workshop must be conducted at an agreed schedule with the end user.</p> <p>4. The winning bidder is required to deliver the items within fifteen (15) calendar days upon issuance of Notice to Proceed (NTP).</p> <p>5. Progress payment is allowed based on the following deliverable:</p> <p>5.1. Delivery, installation, configuration of software: 95%</p> <p>5.1.1. Duration: within fifteen (15) calendar days from issuance of NTP</p> <p>5.2. Workshop/Training: 5%</p> <p>5.2.1. Duration: within thirty (30) calendar days from issuance of NTP</p>				
<b>TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):</b>				<b>Php 1,704,435.82</b>
<b>RESERVATION CLAUSE</b>				
<p>The Advanced Science and Technology Institute 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.</p>				