



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

<b>IB No:</b>	23-10-4608	<b>Date:</b>	October-27-2023
<b>PR No:</b>	SRA-WAP-23-09-17526	<b>Date:</b>	October-11-2023
<b>Source of Funds:</b>			
<b>Total ABC:</b>	Php 1,200,000.00		
<b>Time, Date &amp; Venue of Pre-bid Conference:</b>	November 07, 2023, 1:30 PM at Videoconferencing (MS Teams)		
<b>Time and Date of Submission of Bids:</b>	November 20, 2023, 01:30 PM		
<b>Time, Date &amp; Venue of Opening Bids:</b>	November 20, 2023, 2:00 PM at DOST-ASTI and Videoconferencing (MS Teams)		
<b>Date of availability of Complete Set of Documents:</b>	October 31, 2023		
<b>Deadline of Potential Bidder's Clarifications:</b>	November 10, 2023		
<b>Deadline of ASTI's Supplemental Bid Bulletin:</b>	November 13, 2023		
<b>Delivery Schedule:</b>			

The *Department of Science and Technology (DOST) - 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. *Section II. Instructions to Bidders (ITB) of the DOST-ASTI Bidding Documents provides information necessary for bidders to prepare responsive bids, in accordance with the requirements of DOST-ASTI. The ITB likewise provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and award of contract.*

Bidding will be conducted through open competitive bidding procedures *using a non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184.*

A complete set of *DOST-ASTI Bidding Documents may be acquired by interested Bidders on the date and address given on this document, and upon payment of the applicable fee, pursuant to the latest Guidelines issued by the Government Procurement Policy Board. Further, the DOST-ASTI Bidding Documents may be accessed through the DOST-ASTI website (<https://asti.dost.gov.ph/>).*

For further inquiries, *you may contact the DOST-ASTI BAC Secretariat at telephone number +63 2 8249-8500 / +63 2 8426-9755 local 1206/1212 or send your message to bac-sec@asti.dost.gov.ph .*

Respectfully,

**BAYANI BENJAMIN R. LARA**  
*BAC Chairperson*

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<p><b>Design and Development of Web Platform</b></p> <p>General Overview</p> <p>1.1 The SRA-WAP Project is seeking qualified and competent bidders for the Supply and Delivery of One (1) Lot Web Portal.</p> <p>1.2 The web portal shall be maintained and operated by DOST-ASTI, to visualize outputs of sugarcane plantation, mapping, and sugarcane yield estimation, to be used by the Sugar Regulatory Administration (SRA).</p> <p>2. Technical Specifications</p> <p>2.1. The web platform must have a Home Page that</p>	1	lot	1200000.00	1,200,000.00

consists of the following elements:

2.1.1. Home Page Header: A header on the home page containing the following:

2.1.1.1. Logos of Sugar Regulatory Administration, Philippine Transparency Seal, DOST-ASTI and other logos as indicated by the end-user

2.1.1.2. Date and Time

2.1.1.3. Title of the web page as indicated by the end-user

2.1.2. A dynamic photo carousel with photos as provided by the end-user

2.1.3. Updates Teaser Panel: A panel for announcements that may contain the following:

2.1.3.1. Thumbnail or Hero Image

2.1.3.2. Title, date and short description

2.1.3.3. Read more button and link

2.1.4. About Us: A static part of the home page about SRA and Sugarcane Mapping

2.1.5. Features: Summary of features of the platform

2.2. The web platform must have a Layer Visualization Panel or Dashboard, which enables users to display or visualize geospatial datasets selected in the Layer Selection Panel.

2.2.1. Has a Map interface:

2.2.1.1. an interactive map with basic map elements

2.2.1.2. has simple map functions like zooming in/out of a specific point, selecting specific layers, etc.

2.2.1.3. provide an option to generate downloadable reports for the LGU selected or highlighted directly on the map

2.2.1.4. When highlighting or selecting a Local Government Unit (LGU) on the map, it will display a pop-up window showing a quick summary or highlights of data like current extents of sugarcane, yield estimates, etc.

2.2.2. Integrate an option to search and select for specific areas or LGU with available SRA datasets.

2.2.3. Can show timelapse of layers of available historical datasets based on selected dates/years, which can be run automatically or manually.

2.2.4 Has a slider to compare layers on selected dates (before-after)

2.2.5 Can digitize features

2.3. Layer Selection Panel

2.3.1. Shows a list of the available and updated layers/datasets and allows users to select which layers to be viewed or displayed on the Layer Visualization Panel or Dashboard. These datasets include:

2.3.1.1. Basemap of the entire country

2.3.1.2. Political boundaries (Municipality)

2.3.1.3. Mapped sugarcane extents (with options for date/year selections)

2.3.1.4. Sugarcane yield estimates (with options for date/year selections)

2.3.1.5. Location of AWS Sites and data:

2.3.1.5.1. Current weather from SRA AWS – Solar Radiation, Precipitation, Vapor Pressure, Relative Humidity, Air Temperature and Soil Moisture

2.3.1.5.2. Historical data graph of rainfall and solar radiation (display on the mill district assigned on

the user)

2.3.1.6. Other relevant datasets if available:

2.3.1.6.1. Location of SRA Offices (MD and RDE)

2.3.1.6.2. Location of Sugar Mills Sites

2.3.1.6.3. Count of available Tractors and Machineries per location or site (e.g., barangay)

2.3.1.6.4. Historical graph data of Global Agricultural Monitoring Data

2.3.1.6.5. Graphical Data from JAXA's JASMIN satellite based on monitoring network system for FAO Market Monitoring.

2.3.1.6.6. Elevation, Slope, Soil Textures maps

2.3.1.6.7. User provided geotagged pictures on site (optional)

2.3.2. Check or drop-down buttons that are used to select layers to be displayed:

2.3.2.1. Buttons for summary/report generation on identified layers

2.3.2.2. If reports are to be generated:

2.3.2.2.1. A pop-up window will appear for the review of the summary/report to be generated.

2.3.2.2.2. User has the option to select the specific areas (i.e., barangays, city/municipalities, provinces) covered in the report

2.3.2.2.3. Reports should include a simple overview map of the selected LGU, and a tabular summary of the current and historical estimated yields per LGU, etc.

2.3.2.2.4. Reports must follow a provided standard format and paper size for uniformity, and can be downloaded as a pdf.

2.4. User Management: Roles and levels of access should be designated using the platform

2.4.1. System administrators: Full access to and management of the system.

2.4.2. Mill district officers: Can access and manage data and layers within their mill districts

2.4.3. Planters/Contributors: Can view specific data and layers, as well as digitize and upload data within their respective mill districts

2.4.4. Regular Users Can only access the Dashboard and map interface modules

2.5. Other Standard Pages and Features

2.5.1. Cookie Notification

2.5.2. Error 404

2.5.3. Privacy Policy

2.5.4. Admin Login

2.5.5. Header and Footer

2.5.6. Search bar

2.5.7. Sign-up or Log-in to Portal

2.5.8. Contact Us

2.6. General specifications:

2.6.1. The backend of the site must be built using Node.JS.

2.6.2. The frontend of the site must be built using Next.JS.

2.6.3. The supplier must have prior experience with systems using satellite data. The supplier must provide proof of having experience on systems using satellite data prior during the bidding process.

### 3. Security Features

3.1. Administrators must be able to view, assess, accept and reject requests from end-users

3.2. Must contain modules for User and Profile Management; should support basic features such as user creation, login and logout and password retrieval

3.3. Must allow for role and permission management for different users

3.4. Must implement SSL protocol for encrypted connections

### 4. Timeline, testing, turnover and documentation

4.1. The supplier must submit the first draft of the design mock-up within fourteen (14) calendar days after issuance of Notice to Proceed (NTP).

4.2. Upon the end-user's approval of the design mock-up, the supplier has ninety (90) calendar days to submit the first draft of the website.

4.3. The end-user has two (2) weeks of trial period upon submission of the website's first draft. During this time period up until the completion of delivery, the supplier must provide the end-user with unlimited service for bug fixes.

4.4. The supplier shall provide training and manuals on basic editing of the website's content as well as publishing new materials.

4.5. The supplier shall provide a training and training manual including the program flow of the source code of the website.

4.6. The supplier shall coordinate with DOST-ASTI on the hosting of the website.

4.7. The source code shall be transferred to the end-user upon completion of the website.

### 5. Other Requirements

5.1. The end-user shall provide the supplier with the necessary content for the website; however, the supplier must be able to create/design new vector graphics as needed.

5.2. The supplier must dedicate at least ten (10) personnel to the development of the website, with one (1) in direct coordination with the end-user for the smooth development of the website.

5.3. Signed Non-disclosure Agreement (NDA)

5.3.1. The NDA shall be drafted by the end-user to be signed by the winning bidder.

5.3.2. Notarization expenses, if any, shall be shouldered by the supplier.

### 6. Billing/Payment Terms

6.1. Price quotation/s must be inclusive of all applicable taxes and charges.

6.2. Progress billing is allowed. The following are the milestones required for each billing.

6.2.1. Twenty percent (20%) of the contract price will be paid after the finalization of the design mock-up of the website.

6.2.2. The remaining fifty percent (50%) of the contract price will be paid upon the completion of the

first draft of the website

6.2.3. The remaining thirty percent (30%) of the contract price will be paid upon the completion of the trial run, turnover of the website and completion of all the other requirements in this contract.

6.3. Payment shall be made only upon certification /acceptance of the end-user to the effect that the services have been rendered or delivered in accordance with the terms of this Contract and have been duly inspected and accepted.

6.4. Advance payment is not allowed. No payment shall be made for services not yet rendered.

6.5. Delivery and completion of the requested output shall be made within a maximum period of one hundred twenty (120) calendar days upon the issuance of NTP.

**TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):**

**Php 1,200,000.00**

**RESERVATION CLAUSE**

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.