



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

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

ITB No:	21-10-3568	Date:	October-15-2021
PR No:	GAA-21-09-12026	Date:	September-10-2021
Source of Funds:			
Total ABC:	Php 19,330,040.00		
Time, Date & Venue of Pre-bid Conference:	October 27, 2021, 9:00 AM at Via videoconferencing		
Time and Date of Submission of Bids:	November 08, 2021, 10:00 AM		
Time, Date & Venue of Opening Bids:	November 08, 2021, 10:30 AM at DOST-ASTI and Videoconferencing		
Date of availability of Complete Set of Documents:	October 19, 2021		
Deadline of Potential Bidder's Clarifications:	October 29, 2021		
Deadline of ASTI's Supplemental Bid Bulletin:	November 01, 2021		
Delivery Schedule:			

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

For further inquiries, contact ASTI's BAC Secretariat via email at 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>Very High Resolution Images</p> <p>1 Satellite Access- The supplier must provide access to download images from the following satellites, as needed:</p> <p>1.1 Satellite 1: 1.1.1 Sensor Band: Panchromatic 1.1.2 Sensor Resolution: at least 0.5m pixel resolution 1.1.3 Swath Width: at least 15km</p> <p>1.2 Satellite 2: 1.2.1 Sensor Band: Panchromatic; at least 8 Multispectral 1.2.2 Sensor Resolution: Panchromatic: at least 0.5m pixel resolution, Multispectral: at least 2m pixel</p>	1	lot	7928000.00	7,928,000.00

resolution

1.2.3 Swath Width: at least 15km

1.3 Satellite 3

1.3.1 Sensor Band: Panchromatic; at least 8 Multispectral; with SWIR

1.3.2 Sensor Resolution: Panchromatic: at least 0.31m pixel resolution, Multispectral: at least 2m pixel resolution

1.3.3 SWIR: at least 4m pixel resolution

1.3.4 Swath Width: at least 13km

1.4. Satellite 4

1.4.1 Sensor Band: Panchromatic; at least 4 Multispectral (Blue, Green, Red, NIR)

1.4.2 Sensor Resolution: Panchromatic: at least 0.5m pixel resolution, Multispectral: at least 2m pixel resolution

1.4.3 Swath Width: at least 15km

1.5 Satellite 5

1.5.1 Sensor Band: Panchromatic; at least 4 Multispectral (Blue, Green, Red, NIR)

1.5.2 Sensor Resolution: Panchromatic: at least 0.31m pixel resolution, Multispectral: at least 2m pixel resolution

1.5.3 Swath Width: at least 13km

2. Response Time

2.1 Image requests should have a response time of at least 24 hours (regardless if approved or rejected).

2.2 If the request is acceptable, data should be available within 72 hours from the time of approval.

3. Mode of Delivery

3.1 Once data is available, supplier must ensure that the mode of transfer is stable and secure, such as, but not limited to, FTP or hard drives.

4. License Terms

4.1 The DOST-ASTI will be allowed to freely distribute data and imagery products within the government hierarchy, including public research and development (R&D) institutions and academia, to support various applications and operational activities.

In case of conflict, Philippine laws shall take precedence.

5. Telemetry

5.1 Access to at least 4.04 minutes of integrated tasking for satellites 1, 2, 3, 4, and 5.

5.2 Minutes can be used for fresh and archive image requests

5.3 Fresh images are defined as images captured within 90 days before and after the time of request

5.4 Archive images are defined as images captured outside the 90-day fresh image threshold

6. Payment Terms

	<p>6.1 Progress billing, subject to actual number of images downloaded/utilized</p> <p>6.2 Subject to the usual government terms and regulations</p> <p>6.3 Unutilized image allocations shall no longer be payable after the duration of the contract</p> <p>7. The supplier shall also provide the following documents:</p> <p>7.1 Proof of Authority of the Bidder's authorized representative/s, i.e., Secretary's Certificate or Special Power of Attorney;</p> <p>7.2 Proof of Offers for manufacturer's supplied items containing all the technical information about the product, i.e., product brochures, unamended product literature, etc.; and</p> <p>7.3 Proof of Warranty as the Procuring Entity reserves the right to accept or reject the delivered images subject to the actual capture of area of interest</p> <p>8. Notes:</p> <p>8.1 Price inclusive of government fees, taxes and duties</p> <p>8.2 Access to service must be made available within 10 calendar days upon issuance of NTP</p> <p>8.3 Contract is until December 2022</p>				
2	<p>Direct Reception High Resolution Satellite Imaging</p> <p>1. Satellite Access - Satellites must be compatible with existing collection planning systems at the ASTI-GRS</p> <p>1.1. High Resolution Optical Satellite:</p> <p>1.1.1 Access to X-band telemetry for direct reception at ASTI-GRS of raw images (Level 0 or equivalent)</p> <p>1.1.2 Option to increase product level using available hardware at ASTI-GRS</p> <p>1.1.3 Satellite must have at least 0.7m pixel resolution for the PAN band and 2.8m resolution for the MS bands at nadir</p> <p>1.2. SAR Satellite:</p> <p>1.2.1 Access to X-band telemetry for direct reception at ASTI-GRS of raw images (Level 0 or equivalent)</p> <p>1.2.2 Option to increase product level using available hardware at ASTI-GRS</p> <p>1.2.3 Satellite must have a pixel resolution of at least 0.85m</p> <p>2. Trial</p> <p>2.1 A trial of one image capture (tasking and download) for each satellite will be used to evaluate the validity and quality of the different kinds and modes of satellite data (must also include the corresponding metadata) during the post-qualification period</p> <p>3. Response Time</p> <p>3.1 Image requests should have a response time of at least 24 hours (regardless if approved or rejected).</p>	1	lot	4000000.00	4,000,000.00

	<p>3.2 If the request is acceptable, data should be available within 72 hours from the time of approval.</p> <p>4. Mode of Delivery</p> <p>4.1 Once data is available, supplier must ensure that the mode of transfer is stable and secure, such as, but not limited to, FTP and hard drives.</p> <p>5. License Terms</p> <p>5.1 The DOST-ASTI will be allowed to freely distribute data and imagery products within the government hierarchy, including public research and development (R&D) institutions and academia, to support various applications and operational activities. In case of conflict, Philippine laws shall take precedence.</p> <p>6. Telemetry</p> <p>6.1 Access to task and download at least 50 scenes, interchangeable for both satellites</p> <p>6.2 One new tasking scene shall be equivalent to two archive images - Scenes may be exchanged for other satellites</p> <p>7. Payment Terms</p> <p>7.1 Progress billing, subject to actual number of images downloaded / utilized</p> <p>7.2 Subject to the usual government terms and regulations</p> <p>7.3 Unutilized image allocations shall no longer be payable after the duration of the contract</p> <p>8. The supplier shall also provide the following documents:</p> <p>8.1 Proof of Authority of the Bidder's authorized representative/s, i.e., Secretary's Certificate or Special Power of Attorney;</p> <p>8.2 Proof of Offers for manufacturer's supplied items containing all the technical information about the product, i.e., product brochures, unamended product literature, etc.; and</p> <p>8.3 Proof of Warranty as the Procuring Entity reserves the right to accept or reject the delivered images subject to the actual capture of area of interest</p> <p>9. Notes:</p> <p>9.1 Price inclusive of government fees, taxes and duties</p> <p>9.2 Access to service must be made available within 10 calendar days upon issuance of NTP</p> <p>9.3 Contract is until December 2022</p>				
3	<p>Daily Optical Satellite Imaging</p> <p>1. Constellation 1 Requirements</p> <p>1.1 At least 100 satellites</p> <p>1.2. At least 3m pixel resolution</p> <p>1.3 At least four spectral bands (RGB, NIR)</p> <p>1.4 At least 10,000 sq km. coverage for the year</p> <p>1.5 Images must be available in raw, radiometrically, geometrically corrected, and orthorectified formats.</p>	1	lot	7402040.00	7,402,040.00

1.6 Access to a platform (API & GUI) for viewing of images collected, and areas of interest.

1.7 End-user must have access to historical archive with the option to choose the cloud cover.

2. Geospatial Data

2.1 Dataset for wireless signal propagation:

2.1.1 3D vector data (buildings)

2.1.2 Digital land use maps *class codes used for signal propagation (Ex. Low building, high building, skyscraper, forest, road, inland water, etc.)

2.1.3 Digital Height Model (DHM)

2.1.4 Digital Terrain Model (DTM)

2.2 At least 1 Area of Interest (AOI):

2.3 At least 25 sq.km. (AOI: Rizal area)

3. Trial

3.1 A trial of one image download will be used to evaluate the validity and quality of the different kinds and modes of satellite data, as applicable, (must also include the corresponding metadata) during the post-qualification period

4. Mode of Delivery

4.1 Once data is available, bidder must ensure that the mode of transfer is stable and secure (ex. https, ftp)

5. License Terms

5.1 The DOST-ASTI will be allowed, as part of the licensing agreement with the telemetry supplier, to freely distribute data and imagery products within the government hierarchy, including public research and development (R&D) institutions and academia, to support various applications and operational activities.

In case of conflict, Philippine laws shall take precedence.

6. Payment Terms

6.1 Progress billing, subject to actual number of images downloaded / utilized

6.2 Subject to the usual government terms and regulations

6.3 Unutilized image allocations shall no longer be payable after the duration of the contract

7. The supplier shall also provide the following documents:

7.1 Proof of Authority of the Bidder's authorized representative/s, i.e., Secretary's Certificate or Special Power of Attorney;

7.2 Proof of Offers for manufacturer's supplied items containing all the technical information about the product, i.e., product brochures, unamended product literature, etc.; and

7.3 Proof of Warranty as the Procuring Entity reserves the right to accept or reject the delivered images subject to the actual capture of area of interest

8. Notes:

8.1 Price inclusive of government fees, taxes and

duties	8.2 Access to service must be made available within 10 calendar days upon issuance of NTP 8.3 Contract is until December 2022				
TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):					Php 19,330,040.00
RESERVATION CLAUSE					
<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>					