



ASTI-FM 03-11
REV 0/2 APR 2018

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

ITB No:	18-10-2188	Date:	November-06-2018
PR No:	GAA-18-09-6692	Date:	September-28-2018
Source of Funds:	GAA		
Total ABC:	Php 75,000,000.00		
Time, Date & Venue of Pre-bid Conference:	November 20, 2018, 1:30 PM at DOST-ASTI		
Time and Date of Submission of Bids:	December 03, 2018, 12:00 PM		
Time, Date & Venue of Opening Bids:	December 03, 2018, 2:30 PM at DOST-ASTI		
Date of availability of Complete Set of Documents:	November 12, 2018		
Deadline of Potential Bidder's Clarifications:	November 23, 2018		
Deadline of ASTI's Supplemental Bid Bulletin:	November 26, 2018		
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,


PAUL JOHN M. SERRANO
Chairperson, BAC-2

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<p>Daily Optical Image Capture Services</p> <p>I. Constellation Requirements</p> <ul style="list-style-type: none"> - at least 100 satellites - at least 3 meters ground sample distance (GSD); - at least four spectral bands (RGB, NIR); - at least 170,000 sq km. coverage for the year - images must be available in raw, radiometrically & geometrically corrected, and orthorectified formats. - access to a platform (API & GUI) for viewing of images collected, and areas of interest - end-user must have access to historical archive with the option to choose the cloud cover <p>II. Basemap</p> <ul style="list-style-type: none"> - access to download at least two basemaps of the Philippines, including its Exclusive Economic Zone (EEZ), for the duration of the contract 	1	lot	26000000.00	26,000,000.00

ASTI Bldg., U.P. Technology Park Complex, C.P. Garcia Ave., Diliman, Quezon City, Philippines 1101

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• Fax No.: +632 925-8598

	<p>III. Trial</p> <ul style="list-style-type: none"> - 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 <p>IV. Mode of Delivery</p> <ul style="list-style-type: none"> - Once data is available, bidder must ensure that the mode of transfer is stable and secure (ex. https, ftp) <p>V. License Terms</p> <ul style="list-style-type: none"> - 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. <p>VI. Payment Terms</p> <ul style="list-style-type: none"> - Progress billing, subject to actual number of images downloaded / utilized - Subject to the usual government terms and regulations - Unutilized image allocations shall no longer be payable after the duration of the contract <p>VIII. Contract Duration</p> <ul style="list-style-type: none"> - Contract shall be valid for one year after issuance of NTP <p>Notes:</p> <ul style="list-style-type: none"> - Price inclusive of government fees, taxes and duties - Delivery: access/service to be given within 10 days upon issuance of NTP 				
2	<p>Very High Resolution Optical and SAR Constellation Imaging Services</p> <p>I. Satellite Access</p> <ul style="list-style-type: none"> - Supplier must provide access to download images from the following satellites, as needed: <p>I.A. Very High Resolution Optical Satellites</p> <ul style="list-style-type: none"> - access to at least five VHR optical imaging satellites, must be compatible with existing collection planning system at the ASTI-GRS <p>I.A.1 Satellite 1:</p> <ul style="list-style-type: none"> - Sensor Band: at least panchromatic - Sensor Resolution: at least 0.5m Ground Sample Distance (GSD) at nadir - Swath Width: at least 15km at nadir <p>I.A.2. Satellite 2:</p> <ul style="list-style-type: none"> - Sensor Band: Panchromatic; at least 8 Multispectral - Sensor Resolution: Panchromatic: at least 0.5m GSD at nadir, Multispectral: at least 2m GSD at nadir - Swath Width: at least 15km at nadir <p>I.A.3. Satellite 3</p> <ul style="list-style-type: none"> - Sensor Band: Panchromatic; at least 8 Multispectral; with SWIR - Sensor Resolution: Panchromatic: at least 0.3m GSD 	1	lot	34000000.00	34,000,000.00

at nadir, Multispectral: at least 2m GSD at nadir,
SWIR: at least 4m GSD at nadir

- Swath Width: at least 13km at nadir

I.A.4. Satellite 4

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

- Sensor Resolution: Panchromatic: at least 0.5m GSD
at nadir, Multispectral: at least 2m GSD at nadir

- Swath Width: at least 15km at nadir

I.A.5. Satellite 5

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

- Sensor Resolution: Panchromatic: at least 0.3m GSD
at nadir, Multispectral: at least 2m GSD at nadir

- Swath Width: at least 13km at nadir

I.B. SAR Imaging Constellation

- High Resolution Synthetic Aperture Radar (SAR)
Imagery from at least four (4) satellites with the
following imaging modes and specifications:

I.B.1. Mode 1

- at least 1 m GSD, with at least 10 km swath width,
polarization (HH or VV)

I.B.2. Mode 2

- at least 3 m GSD, with at least 40 km swath width,
polarization (HH, VV, HV or VH)

I.B.3. Mode 3

- at least 10 m GSD, with at least 30 km swath width,
polarization (HH+VV,, HH+HV or VV+VH)

I.B.4. Mode 4

- at least 14 m GSD, with at least 100 km swath width,
polarization (HH, VV, HV or VH)

I.B.5. Mode 5

- at least 16 m GSD, with at least 160km swath width,
polarization (HH, VV, HV or VH)

I.C. High Resolution SAR Satellite

- Supports imaging at spatial resolutions from 1m to
100m

- Supports imaging coverage from 144 to 250,000 sq.
km.

- Supports single, dual and quad polarization options

II. Trial

- 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

III. Response Time

- Image requests should have a response time of at
least 24 hours (regardless if approved or rejected). If
the request is acceptable, data should be available
within 72 hours from the time of approval.

IV. Mode of Delivery

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

V. License Terms

- The DOST-ASTI will be allowed to freely distribute

	<p>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>VI. Telemetry</p> <ul style="list-style-type: none"> - Access to at least 17 minutes of integrated tasking for I.A, I.B. and I.C. - Minutes can be used for fresh and archive image requests <ul style="list-style-type: none"> - Fresh images are defined as images captured within 90 days before and after the time of request - Archive images are defined as images captured outside the 90 day fresh image threshold <p>VII. Payment Terms</p> <ul style="list-style-type: none"> - Progress billing, subject to actual number of images downloaded / utilized - Subject to the usual government terms and regulations - Unutilized image allocations shall no longer be payable after the duration of the contract <p>VIII. Contract Duration</p> <ul style="list-style-type: none"> - Contract shall be valid for one year after issuance of NTP <p>Notes:</p> <ul style="list-style-type: none"> - Price inclusive of government fees, taxes and duties - Delivery: access/service to be given within 10 days upon issuance of NTP 				
3	<p>High Resolution Optical and SAR Direct Reception Imaging Services</p> <p>I. Satellite Access</p> <ul style="list-style-type: none"> - Satellites must be compatible with existing collection planning systems at the ASTI-GRS <p>I.A. High Resolution Optical Satellite</p> <ul style="list-style-type: none"> - access to X-band telemetry for direct reception at ASTI-GRS of raw images (Level 0 or equivalent) - option to increase product level using available hardware at ASTI-GRS - satellite must have at least 0.7m resolution for the PAN band and 2.8m resolution for the MS bands at nadir <p>I.B. SAR Satellite</p> <ul style="list-style-type: none"> - access to X-band telemetry for direct reception at ASTI-GRS of raw images (Level 0 or equivalent) - option to increase product level using available hardware at ASTI-GRS - satellite must have a resolution of at least 0.85m <p>II. Trial</p> <ul style="list-style-type: none"> - 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 	1	lot	15000000.00	15,000,000.00

<p>III. Response Time</p> <ul style="list-style-type: none"> - Image requests should have a response time of at least 24 hours (regardless if approved or rejected). If the request is acceptable, data should be available within 72 hours from the time of approval. <p>IV. Mode of Delivery</p> <ul style="list-style-type: none"> - Once data is available, bidder must ensure that the mode of transfer is stable and secure, such as, but not limited to, FTP and secure hard drives. <p>V. License Terms</p> <ul style="list-style-type: none"> - 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>VI. Telemetry</p> <ul style="list-style-type: none"> - Access to task and download at least 175 scenes, interchangeable for both satellites - One new tasking scene shall be equivalent to two archive images - Scenes may be exchanged for other satellites <p>VII. Payment Terms</p> <ul style="list-style-type: none"> - Progress billing, subject to actual number of images downloaded / utilized - Subject to the usual government terms and regulations - Unutilized image allocations shall no longer be payable after the duration of the contract <p>VIII. Contract Duration</p> <ul style="list-style-type: none"> - Contract shall be valid for one year after issuance of NTP <p>Notes:</p> <ul style="list-style-type: none"> - Price inclusive of government fees, taxes and duties - Delivery: access/service to be given within 10 days upon issuance of NTP 					
TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):					Php 75,000,000.00
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.					