



28 December 2018

**ASTI – BIDS AND AWARDS COMMITTEE
BAC Resolution No.: DQ-18-12-005**

DECLARING THE POST DISQUALIFICATION OF THE BIDDER WITH THE SINGLE CALCULATED BID AND FAILURE OF BIDDING FOR THE SUPPLY, DELIVERY AND INSTALLATION OF MATHEMATICAL AND DISTRIBUTED COMPUTING SOFTWARE SUBSCRIPTIONS

Purchase Request No.	: GAA-18-08-6485
Date of Purchase Request	: 20 August 2018
Invitation to Bid No.	: 18-10-2156
Solicitation No.	: 18-10-2156
PhilGEPS Reference No.	: 5867154
Approved Budget for the Contract	: ₱5,700,000.00

WHEREAS, the following procurement projects were included in the 22nd Supplemental Annual Procurement Plan for Calendar Year 2018 of the Department of Science and Technology (DOST) - Advanced Science and Technology Institute (ASTI) upon favorable recommendation of its Bids and Awards Committees (BACs):

PROCUREMENT PROJECT	BUDGET (₱)
Mathematical Computing Software Subscription	3,800,000.00
Distributed Computing Software Subscription	1,900,000.00

WHEREAS, on 26 November 2018, 1:30 in the afternoon, a Pre-procurement Conference was held at the DOST-ASTI Conference Room;

WHEREAS, on 30 November 2018, the Invitation to Bid for the Supply, Delivery and Installation of Mathematical and Distributed Computing Software Subscriptions with a total Approved Budget for the Contract amounting to Five Million Seven Hundred Thousand Pesos Only (₱5,700,00.00) was posted in PhilGEPS, DOST-ASTI website, as well as the Agency's bulletin board;

WHEREAS, on 07 December 2018, 1:30 in the afternoon, a Pre-bidding Conference was held at the DOST-ASTI Conference Room, which was attended by two (2) prospective bidders¹;

WHEREAS, from 29 November 2018 to 19 December 2018, two (2) prospective bidders² bought bidding documents;

WHEREAS, on 19 December 2018, two (1) bidders³ submitted bids before 12:00 noon and subsequently, at 1:30 in the afternoon, the BAC-1 conducted the Opening of Bids adopting the non-discretionary "pass or fail" criterion specified in the 2016 Revised Implementing Rules and Regulations of Republic Act No. 9184;

WHEREAS, after evaluation of eligibility and technical components of the bid of Techsource Computing Solutions, Inc. and Masangkay Computer Center, the BAC-1 disqualified the former due to patently insufficient submission, while the latter was declared "eligible", as all its eligibility and technical documents were found to be in order. Accordingly, the financial component of the bid of Masangkay Computer Center was opened, with the following results:

ITEM/LOT NO.	DESCRIPTION	BID PRICE AS READ (₱)
1	Mathematical Computing Software Subscription	2,955,000.00
2	Distributed Computing Software Annual Subscription	1,350,000.00
TOTAL (₱)		4,305,000.00

WHEREAS, on the same day, the BAC-1 likewise conducted a Bid Evaluation which resulted in the hereunder Bid as Calculated:

¹ Techsource Computing Solutions, Inc. and ADParametrik, Inc.

² Techsource Computing Solutions, Inc. and Masangkay Computer Center

³ Techsource Computing Solutions, Inc. and Masangkay Computer Center, P. Garcia Ave., Diliman, Quezon City, Philippines 1101

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• Fax No.: +632 925-8598

ITEM/LOT NO.	DESCRIPTION	BID PRICE AS CALCULATED (P)
1	Mathematical Computing Software Subscription	2,955,000.00
2	Distributed Computing Software Annual Subscription	1,350,000.00
TOTAL (P)		4,305,000.00

WHEREAS, to assist in the evaluation and post-qualification of the bids, the DOST-ASTI asked Masangakay Computer Center thru electronic mail for clarifications on the technical component of its bid and the latter responded to the former's request for clarification;

WHEREAS, based on careful evaluation of the End-user and BAC-1 of the results, the bid of Masangakay Computer Center NON-RESPONSIVE to both items/lots being procured due to the following grounds:

Item/Lot No. 1 – Mathematical Computing Software Submission

1) The software offered does not have an INTRINSIC support for some (underlined) functionalities under Section VII. Technical Specifications, to wit:

1. Three (3) annual concurrent license-based subscription of a mathematical computing software capable of the following:

- 1.1. Able to solve computationally and data-intensive problems using multicore processors, GPUs, and computer clusters with high-level constructs such as parallel for-loops, special array types and parallelized numerical algorithms to parallelize applications without CUDA or MPI programming.
- 1.2. Able to provide functions and applications to describe, analyze and model data; and is able to utilize descriptive statistics and plots for exploratory data analysis, fit probability distributions to data, etc.
- 1.3. Able to provide tools for machine learning algorithms (supervised and unsupervised) such as but not limited to support vector machines, k-nearest neighbors, Gaussian mixture model, decision trees, hierarchical clustering.
- 1.4. Provides tools for classification, regression, cluster, dimensionality reduction, time-series forecasting; algorithms, pretrained models and applications to perform neural network simulation.
- 1.5. Has support for convolutional neural network, long short-term memory (LSTM), directed acyclic graph network topologies, autoencoders for image classification.
- 1.6. Provides a comprehensive set of reference-standard algorithms and workflow apps for image processing, analysis, visualization, and algorithm development.
- 1.7. Has tools for image segmentation and enhancement, noise reduction, geometric transformations, image registration and 3D image processing, automation of common image processing workflows and enable interactive image segmentation, image registration technique comparison and batch processing of large datasets. Must contain visualization functions for exploration of images, 3D volumes and videos.
- 1.8. Provides functions and applications to analyze, preprocess, and extract features from uniformly and nonuniformly sampled signals. Must include tools for filter design and analysis, resampling, smoothing, detrending and power estimation. Must also contain tools for signal feature extraction.

2. One (1) annual individual license-based subscription of a mathematical computing software capable of the following:

- 2.1. Able to solve computationally and data-intensive problems using multicore processors, GPUs, and computer clusters with high-level constructs such as parallel for-loops, special array types and parallelized numerical algorithms to parallelize applications without CUDA or MPI programming.
- 2.2. Able to provide functions and applications to describe, analyze and model data; and is able to utilize descriptive statistics and plots for exploratory data analysis, fit probability distributions to data, etc.
- 2.3. Able to provide tools for machine learning algorithms (supervised and unsupervised) such as but not limited to support vector machines, k-nearest neighbors, Gaussian mixture model, decision trees, hierarchical clustering.
- 2.4. Provides tools for classification, regression, cluster, dimensionality reduction, time-series forecasting; algorithms, pretrained models and applications to perform neural network simulation
- 2.5. Has support for convolutional neural network, long short-term memory (LSTM), directed acyclic graph network topologies, autoencoders for image classification.
- 2.6. Provides algorithms and visualizations for preprocessing, analyzing, and modeling text data coming from various sources (e.g. logs, news feeds, social media) with various well-known formats.
- 2.7. Provides the ability to compile code into standalone applications.
- 2.8. Provides the ability to build C/C++ libraries, Microsoft® .NET assemblies, Java® classes, and Python® packages for deployment on desktop, web, and enterprise systems.

3. One (1) annual individual license-based subscription of a mathematical computing software capable of the following:

- 3.1. Able to solve computationally and data-intensive problems using multicore processors, GPUs, and computer clusters with high-level constructs such as parallel for-loops, special array types and parallelized numerical algorithms to parallelize applications without CUDA or MPI programming.
- 3.2. Able to provide functions and applications to describe, analyze and model data; and is able to utilize descriptive statistics and plots for exploratory data analysis, fit probability distributions to data, etc.
- 3.3. Able to provide tools for machine learning algorithms (supervised and unsupervised) such as but not limited to support vector machines, k-nearest neighbors, Gaussian mixture model, decision trees, hierarchical clustering.
- 3.4. Provides tools for classification, regression, cluster, dimensionality reduction, time-series forecasting;

- algorithms, pretrained models and applications to perform neural network simulation.
- 3.5. Has support for convolutional neural network, long short-term memory (LSTM), directed acyclic graph network topologies, autoencoders for image classification.
 - 3.6. Provides a comprehensive set of reference-standard algorithms and workflow apps for image processing, analysis, visualization, and algorithm development.
 - 3.7. Has tools for image segmentation and enhancement, noise reduction, geometric transformations, image registration and 3D image processing, automation of common image processing workflows and enable interactive image segmentation, image registration technique comparison and batch processing of large datasets. Must contain visualization functions for exploration of images, 3D volumes and videos.
 - 3.8. Provides algorithms and visualizations for preprocessing, analyzing, and modeling text data coming from various sources (e.g. logs, news feeds, social media) with various well-known formats.
 - 3.9. Provides algorithms, functions, and apps for designing and simulating computer vision and video processing systems. This includes feature detection, extraction, and matching, as well as object detection and tracking, among others.
 - 3.10. Supports single, stereo, and fisheye camera calibration; stereo vision; 3D reconstruction; and 3D point cloud processing.
4. **One (1) annual individual license-based subscription of a mathematical computing software capable of the following:**
- 4.1. Able to solve computationally and data-intensive problems using multicore processors, GPUs, and computer clusters with high-level constructs such as parallel for-loops, special array types and parallelized numerical algorithms to parallelize applications without CUDA or MPI programming.
 - 4.2. Able to provide functions and applications to describe, analyze and model data; and is able to utilize descriptive statistics and plots for exploratory data analysis, fit probability distributions to data, etc.
 - 4.3. Able to provide tools for machine learning algorithms (supervised and unsupervised) such as but not limited to support vector machines, k-nearest neighbors, Gaussian mixture model, decision trees, hierarchical clustering.
 - 4.4. provides tools for classification, regression, cluster, dimensionality reduction, time-series forecasting; algorithms, pretrained models and applications to perform neural network simulation.
 - 4.5. Has support for convolutional neural network, long short-term memory (LSTM), directed acyclic graph network topologies, autoencoders for image classification.
 - 4.6. Provides a comprehensive set of reference-standard algorithms and workflow apps for image processing, analysis, visualization, and algorithm development.
 - 4.7. Has tools for image segmentation and enhancement, noise reduction, geometric transformations, image registration and 3D image processing, automation of common image processing workflows and enable interactive image segmentation, image registration technique comparison and batch processing of large datasets. Must contain visualization functions for exploration of images, 3D volumes and videos.
 - 4.8. Provides functions and apps to analyze, preprocess, and extract features from uniformly and nonuniformly sampled signals.
 - 4.9. Includes tools for filter design and analysis, resampling, smoothing, detrending, and power spectrum estimation. The toolbox also provides functionality for extracting features like changepoints and envelopes, finding peaks and signal patterns, quantifying signal similarities, and performing measurements such as SNR and distortion.
 - 4.10. Provides algorithms, apps, and scopes for designing, simulating, and analyzing signal processing systems. has support for designing and analyzing FIR, IIR, multirate, multistage, and adaptive filters, streaming signals from variables, data files, and network devices for system development and verification.
 - 4.11. Provides algorithms and apps for the analysis, design, end-to-end simulation, and verification of communications systems.
 - 4.12. Includes channel coding, modulation, MIMO, and OFDM enable you to compose and simulate a physical layer model of your standard-based or custom-designed wireless communications system.
 - 4.13. Provides a waveform generator app, constellation and eye diagrams, bit-error-rate, and other analysis tools and scopes for design validation.
- 2) The software only supports Python, which happens to have most, if not some, of the functions and Application Program Interfaces required. Should the coding be done thru Python when performing machine learning and artificial intelligence tasks, then the End-user will not be needing any software. Therefore, this defeats the purpose of procuring or having a software subscription.

Item/Lot No. 2 – Distributed Computing Software Annual Subscription


- 1) Masangkay Computer Center pointed to the brochures provided which information therein were unclear whether or not the technical requirements were complied with. Only the High-Performance Computing (HPC) capability of software was clear.
- 2) The End-user further looked into the offered item online and, based on research, the offered software shows no material on its compatibility with Platform LSF, Windows HPC Server 2008 and Torque. Other specifications such as GPU support were not clarified.

NOW, THEREFORE, in consideration of the above premises, WE, the members of the BAC-1, **RESOLVE**, as it is hereby **RESOLVED**, to recommend to the Head of the Procuring Entity (HoPE) the following:

- 1) Declare the post-disqualification of Masangkay Computer Center and failure of bidding (procurement) for subject Contract;
- 2) Approval of the HoPE of the foregoing result/s.

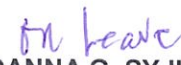
RESOLVED, at the DOST-ASTI this 28th day of December 2018.


PETER ANTONIO B. BANZON
End-user


MYLENE N. MONTON
BAC-1 Member


JAY SAMUEL L. COMBINIDO
BAC-1 Member


CALVIN ARTEMIES G. HILARIO
BAC-1 Member


JOANNA G. SYJUCO
BAC-1 Member


RENE C. MENDOZA
BAC-1 Vice Chairperson


PEDRITO B. MANGAHAS
BAC-1 Chairperson

Approved:


JOEL JOSEPH S. MARCIANO, JR., Ph.D.
Acting Director