Republic of the Philippines
Eulogio "Amang" Rodriguez
Institute of Science and Technology
Nagtahan, Sampaloc, Manila

January 20, 2023

INVITATION TO BID
2023-BID-001 APR No. 12-150 (REPOST)

The Eulogio "Amang" Rodriguez Institute of Science and Technology through the Bids and Awards Committee (BAC) invites Philgeps **registered contractors/suppliers** to bid for the hereunder projects:

Name of Projects	:	**MACHINERY AND EQUIPMENT OUTLAY FOR THE SCIENTIFIC COMPUTING RESEARCH (SCoRe) LABORATORIES**
Approved Budget for the Contract	:	**P13,680,000.00**
Source of Funding	:	**GAA**
Delivery Period	:	**180 CD**

Prospective bidders should have completed a similar contract with a value of at least 50% of the approved budget. The BAC will use non-discretionary pass/fail criteria in the Eligibility Check/Screening as well as the Preliminary Examination of Bids. Post-qualification of the **lowest calculated bid** shall be conducted.

All particulars relative to Eligibility Statement and Screening, Bid Security, Performance Security, Pre-Bidding Conference, Evaluation of Bids, Post-Qualification and Award of Contract shall be governed by the pertinent provisions of R.A. 9184 and its Implementing Rules and Regulation (Revised).

The schedule of activities is as follows:

Activities	Schedule
1. Advertisement	January 23 – 30, 2023
2. Issuance of Bid documents	January 23 – February 13, 2023
3. Pre-Bid Conference	January 27, 2023, 01:00PM, Friday, BAC Office
4. Submission & Opening of Bids	February 15, 2023, 01:00PM, Wednesday, BAC Office
5 Bid Evaluation/Post Qualification	Prescribed period of Action base on R.A. 9184
6. Issuance of Notice of Award	
7. Contract preparation/Signing/Approval of Contract	
8. Issuance of Notice to Proceed	

The bid documents will be available at the BAC Secretariat starting January 23, 2023 from 8:00 am to 5:00 pm upon payment of non-refundable fee of P10,000.00. **Interested bidders are advised to include name of company in the document request list of PhilGeps posting as needed for the posting of award notice in the PHILGEPS.**

Bidders shall submit their duly accomplished and tagged (1) Eligibility Requirements & Technical Proposal (2) Financial Proposal in **3 sets - hardcopy (**1 original & 2 duplicate) and **1 set of soft/scanned copy-saved in flash disk** to the BAC Secretariat, EARIST, Nagtahan, Sampaloc, Manila. **Deadline of submission of bids shall be on February 15, 2023 at 01:00 PM.** Opening of bids will be at the BAC Office, 2nd Flr. Old Special Science Building. **Late Bids shall not be accepted.**

All bids must be accompanied by a Bid Security in the form of Cash, Certified Check, Cashier's Check, and Manager's Check, Bank Draft/Guarantee and Irrevocable Letter of Credit in the amount of Two Percent (2%), Surety Bond in the amount of Five Percent (5%) of the Approved Budget or Bid Securing Declaration (BSD).

EARIST reserves the right to reject any or all bids without offering any reasons, waive any formality or defects and to make an award to the proposal most advantageous to EARIST. EARIST neither assumes any obligation for whatsoever losses that the bidders may incur in the preparation of their bids nor guarantees that an award will be made.

Approved:

Dr. GRANT B. CORNELL
BAC CHAIRMAN

Further inquiries please call the BAC CHAIRMAN at Tel. No.82439467 loc. 104

Republic of the Philippines
EULOGIO "AMANG" RODRIGUEZ
INSTITUTE OF SCIENCE AND TECHNOLOGY
Nagtahan, Samploc, Manila

BIDS AND AWARDS COMMITTEE

RESOLUTION DECLARING FIRST FAILURE OF BIDS

Contract Title/Project	: **Machinery and Equipment Outlay for the Scientific Computing Research (SCORE) Laboratory (Early procurement)**
Solicitation No.	: **EARIST-2022-BID-020**
Approved Budget for the Contract	: **Php 13,680,000.00**

WHEREAS, the EARIST Bids and Awards Committee posted the Invitation to Bid for the "**Machinery and Equipment Outlay for the Scientific Computing Research (SCORE) Laboratory**" at the Philippine Government Electronic Procurement System (PhilGEPS) on 21 December 2022. The said Invitation to Bid was also posted at conspicuous places within the premises of the EARIST from 21 December 2022 to 28 December 2022;

WHEREAS, on 27 December 2022, a Pre-Bid Conference was held followed by a Bid Submission and Opening on 17 January 2023;

WHEREAS, during the Bid Submission and Opening of Bids, EARIST BAC did not receive any bids;

WHEREAS, Section 35.1 of the Revised IRR of RA No. 9184 states that the *BAC declares bidding a failure when: a) No bids are received;*

NOW, THEREFORE, FOR AND IN CONSIDERATION OF THE FOREGOING, the members of the EARIST-BAC hereby resolve to declare **First Failure of Bidding** for the **Machinery and Equipment Outlay for the Scientific Computing Research (SCORE) Laboratory**

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RESOLVED, at the EARIST, Nagtahan, Sampaloc, Manila this 18th day of January 2023.

Engr. RONALD B. BARAL
Member

Dr. GIOVANNI L. AHUNIN
Member

Engr. EMMANUEL M. MORALES
Member

Prof. BLUE ARCHIMEDES B. SANTOS
Member

DR. GRANT B. CORNELL
Chairman

Approved:

DR. ROGELIO T. MAMARADLO
President

EULOGIO "AMANG" RODRIGUEZ INSTITUTE OF SCIENCE AND TECHNOLOGY
COLLEGE OF ARTS AND SCIENCES
Nagtahan, Sampaloc, Manila

EQUIPMENT OUTLAY

SCIENTIFIC COMPUTING RESEARCH (SCoRe) LABORATORIES

(Research Labs for students of BS Applied Physics, BS Computer Science, BS Information Technology and BS Mathematics)

	Item & Specifications	Unit of Measure	Quantity Requirement	Estimated Unit Price	SUBTOTAL			TOTAL AMOUNT
					Supplies & Materials	Semi-Expendable	Equipment	
1	**Scanning Electron Microscope with Energy Dispersive X-ray Detector**, brand new, conforms with the following minimum specifications **Basic Specifications** SE image resolution: At least 4.0 nm at 20 kV, 60,000x magnification, and 5mm working distance (High Vacuum Mode) At least 15.0 nm at 1 kV, 20,000x magnification, and 5mm working distance (High Vacuum Mode) BSE image resolution: At least 5.0 nm at 20 kV, 20,000x magnification, and 5mm working distance (Low Vacuum Mode, 6 Pa) Magnification: 6x to 300,000x (magnification ratio of image) or better 16x to 800,000x (magnification ratio of display) or better **Electron Optics** Electron beam source: Pre-centered cartridge type tungsten filament Accelerating voltage: At least 0.3 kV to 20 kV Gun bias: Self-bias, fixed bias continuously changeable Beam Alignment: 2-stage electromagnetic deflection Lens System: 3-stage electromagnetic condenser lens Objective aperture: Fixed aperture (25um) Image shifting: Greater than ± 50um (WD=10mm) Detectors: Everhart Thornley SE detector (High Vacuum Mode) 4+1 segmented Semiconductor type BSE detector (High/Low vacuum mode) **Evacuation System** Evacuation control: Fully automatic valve sequence Vacuum gauge: Pirani gauge Ultimate vacuum: 1.5×10^{-3} Pa or better	1	unit	11,700,000.00			11,700,000.00	11,700,000.00

Item & Specifications	Unit of Measure	Quantity Requirement	Estimated Unit Price	SUBTOTAL			TOTAL AMOUNT
				Supplies & Materials	Semi-Expendable	Equipment	
Scanning Electron Microscope with Energy Dispersive X-ray Detector (specifications, continued) Vacuum Setting range: 6 to 100 Pa (13 stage) Vacuum pump: Turbo Molecular Pump (TMP)61 L/s Rotary pump: 120 L/min (60 Hz) **Energy Dispersive X-Ray (EDX) Spectrometer** **Hardware** Detector Sensor area: $60mm^2$ or better Energy resolution: Mn Kα ≤ 129 eV or better Cu Kα ≤ 148 eV or better Detection Range: From Boron (B) to Californium (Cf) or better Cooling: Peltier-cooled, no liquid nitrogen or other cooling agents needed Scanning Control Unit: Hybrid processor for extremelhy low dead time Fully automatic software controlled calibration of hardware **Software** Must be capable of the following: True standardless quantification Multipoint analysis including Point, Rectangle, Ellipse and Polygon Linescan with PTS technology Spectral imaging with up to 4096x3072 pixel resolution, online deconvolution and pseudo color mapping Automated report generation Export to MS Word and Excel **Others:** Must include a PC for the SEM and the EDX with the following minimum specifications: Windows 11 64 bits with 21" monitor Must include an Uninterruptible Power Supply (UPS) compatible with the SEM-EDX Must include Ion Sputtering Coater Easy filament replacement that can be done by EARIST end users without the need for service engineers and/or special tools. Must have local factory trained engineer for after- market support. Local supplier must have factory trained engineers with minimum experience of 12 years (certificate of training to be attached with the SEM brand offered).							

	Item & Specifications	Unit of Measure	Quantity Requirement	Estimated Unit Price	SUBTOTAL			TOTAL AMOUNT
					Supplies & Materials	Semi-Expendable	Equipment	
	Scanning Electron Microscope with Energy Dispersive X-ray Detector (specifications, continued) It is an advantage if local supplier has SEM-EDX applications expert, who can fully train EARIST personnel starting from the equipment's theory and principle to in-depth applications and data interpretation. It is an advantage if supplier also has an in-house advanced nano imaging and materials characterization equipment such as FESEM, AFM , Ion Milling System - that can assist EARIST for other future analyses of samples requiring magnification and resolution which may be beyond the capabilities of its existing SEM-EDX.							
2	**Computer Unit**, 12th Gen Core i9; 32GB RGB DDR5; Dual 1TB PCIE 4.0 M.2 NVME; 1TB SATA HDD; RTX30 Graphics; Aorus Z690 Board; Elite RGB Gaming Chassis; 360MM AIO RGB Liquid Cool), with licensed Windows Pro, MS Office Pro and Antivirus	13	units	120,000.00			1,560,000.00	1,560,000.00
3	**Printer**, laser, monochrome, print-copy-scan-fax functions, print speed of up to 40 ppm, 1 Hi-Speed USB 2.0; 1 rear host USB; 1 Front USB port; Gigabit Ethernet 10/100/1000BASE-T network; 802.3az(EEE), preferably supports Mobile Printing Capability, auto duplex printing; Scan to features; 50-sheet ADF; 2 paper trays (standard). plus 4 boxes of extra compatible toners	2	units	60,000.00			120,000.00	120,000.00
4	**Inverter Airconditioner**, split-type, inverter, 3.0 hp, with free installation	2	units	150,000.00			300,000.00	300,000.00
	Total				**Php -**	**Php -**	**Php 13,680,000.00**	**Php 13,680,000.00**

Prepared by:

Dr. RAYMUND B. BOLALIN
Dean, CAS