



ASTI-FM 03-11
REV 1/08 JUN 2022

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

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| IB No: | 24-03-4711 | Date: | March-26-2024 |
| PR No: | GAA-24-02-18613 | Date: | March-12-2024 |
| Source of Funds: | | | |
| Total ABC: | Php 2,000,000.00 | | |
| Time, Date & Venue of Pre-bid Conference: | April 02, 2024, 9:00 AM at Videoconferencing (MS Teams) | | |
| Time and Date of Submission of Bids: | April 15, 2024, 09:00 AM | | |
| Time, Date & Venue of Opening Bids: | April 15, 2024, 9:30 AM at DOST-ASTI and Videoconferencing (MS Teams) | | |
| Date of availability of Complete Set of Documents: | March 26, 2024 | | |
| Deadline of Potential Bidder's Clarifications: | April 05, 2024 | | |
| Deadline of ASTI's Supplemental Bid Bulletin: | April 08, 2024 | | |
| Delivery Schedule: | | | |

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>Automatic Transfer Switch for GenSet</p> <p>1. BACKGROUND AND OBJECTIVES</p> <p>1.1. The Advanced Science and Technology Institute (ASTI) is seeking qualified and competent bidders for the Replacement, Dismantling, Installation and Testing of Automatic Transfer Switch (ATS) for the utilization of the 250kVA and 350kVA Generator Sets as dedicated emergency backup power of ASTI inclusive of labor, materials, and technical expertise to integrate the existing Generator Sets to the building normal power supply using ATS.</p> | 1 | lot | 2000000.00 | 2,000,000.00 |

2. APPROVED BUDGET FOR THE CONTRACT

2.1. The total Approved Budget for the Contract for this procurement is Two Million Pesos (₱2,000,000.00), inclusive of all government taxes and other charges.

3. SCOPE OF WORKS

3.1. Supply and delivery of new ATS shall be done during office hours, unless instructed by the end-user at ASTI, Diliman, Quezon city for inspection of ASTI personnel/representative.

3.2. Dismantling of the old ATS and dismantling of cables and wirings of the old ATS.

3.3. Mounting and Installation of ATS Panel and all its components including the control wires to operate the dedicated emergency backup power supply using the existing ASTI Generator Sets

3.3.1. The supplied ATS shall guarantee the automatic changeover from normal to emergency power if the normal power supply fails and automatic changeover from emergency to normal power if the normal power supply returns.

3.3.2. Mechanical interlock: To ensure two (2) power sources cannot be switch on at the same time.

3.4. Delivery, Mounting, Installation and Tapping of Power and Control Lines to the brand-new ATS the source (Commercial Power as main and Generator Set as backup).

3.5. Configuration of ATS settings in the presence of ASTI personnel/representative.

3.6. Testing and commissioning through blackout simulation and test run the Generator Set using ATS features in the presence of ASTI personnel/representative.

3.7. Apply proper sealant on every penetration to be made during the construction, like fire sealant, water proofing for perimeter walls.

3.8. Conduct on-site orientation/hands-on training for the ASTI personnel/representative related to the operation and maintenance of the brand-new ATS.

3.9. In the case that the contractor should request for electrical power shutdown for any activity to commence, the contractor shall secure a permit or notice from ASTI ahead of time and shall not exceed the maximum allowable down time for any offices functioning 24/7.

3.10. The service provider shall submit methodology and Gantt chart for the proposed activities.

3.11. The service provider shall submit all materials to be used on the project and is subject for approval.

3.12. The service provider shall submit an "as-built" electrical plan and AutoCAD file and all test results upon completion of all the activities.

3.13. Downtime Procedure

3.13.1. Supplier shall include wire connecting ASTI Generator Set and ASTI Network Operation Center (NOC). The Generator Set shall supply power to the

ASTI NOC to minimize downtime during actual replacement of ATS.

3.13.2. Supplier shall perform site inspection before the installation of the ATS to verify the actual condition and the wire needed to connect ASTI Generator Set and ASTI NOC.

3.13.3. Supplier shall be given 10 minutes downtime during the temporary transfer of power which shall be performed preferably after office hours.

4. TECHNICAL SPECIFICATIONS

4.1. ATS

4.1.1. No. of Phase: 3-phase

4.1.2. No. of Pole: 3-poles

4.1.3. Voltage: 240V

4.1.4. Current: 1600A, 1600AT/1600AF

4.1.5. Circuit Breaker

4.1.5.1. In rated current up to 65 degrees celsius: 1600A at 50 degrees celsius

4.1.5.2. Rated Operational Voltage: 690V AC 50/60 Hz

4.1.5.3. Circuit Breaker Mounting Mode: Fixed

4.1.5.4. Protected Poles Description: 3D

4.1.5.5. Network type: AC

4.1.5.6. Network Frequency: 50/60 Hz

4.1.5.7. Performance level: N 50 kA 415 V AC

4.1.5.8. Device Application: Distribution

4.1.6. Enclosure:

4.1.6.1. National Electrical Manufacturer Association (NEMA)

4.1.6.2. Metal parts must be rustproof

4.1.6.3. With electrical diagram sticker for the technician reference

4.1.6.4. Provision grounding terminal

4.1.6.5. Provision remote terminal for the remote access

4.1.6.6. Manual transfer switch capability

4.1.7. Intelligence system

4.1.7.1. Time delay normal to emergency and time delay emergency to normal (Retransfer)

4.1.7.2. ATS should initiate retransfer to the normal source after sensing restoration of acceptable power.

4.1.7.3. Normal Control Relay (NR)

4.1.7.4. Circuit fuses for normal and emergency

4.1.7.5. Pilot lamp (Red and Green) to indicate status or operation of the system

4.1.7.6. Pilot button (Red and Green) to indicate manual operation for switching mechanism

4.1.7.7. Two (2) limit switches

4.1.7.8. Selector switch (auto-off-manual)

4.1.7.9. Selector switch (Test Switch)

4.1.7.10. With Timer Delay Engine Cool-off (TDEC)

4.1.7.11. With Time Delay Engine Starting (TDES)

4.1.7.12. Shall include over/under voltage protection with anti-single phasing

4.1.7.12.1. VSR – Voltage relay for under voltage, loss

of phase, reverse phase sequence, over and under frequency function.

4.2. Additional Requirements;

4.2.1. Must be compatible with Generator Set 250KVA P220HE2 FG WILSON- 1300SERIES and 350KVA 344EPTP PERKINS- 1506A-E88TAG5.

4.2.2. Provide colored brochure/catalogue (in English language) of the actual unit to be supplied.

4.3. The automatic transfer switch and accessories shall conform to the requirements of:

4.3.1. UL 1008 - Standard for Automatic Transfer Switches

4.3.2. PO 1096 - Philippine Electrical Code

4.3.3. International Standards Organization ISO 9001

5. SUBMITTALS

5.1. Complete connection, schematic diagram, layouts, and riser diagrams for the electrical systems to be installed.

5.1.1. All drawings should be signed and dry sealed by the Contractor's Registered Professional Electrical Engineer.

5.1.2. All drawings, submittals, etc. shall be submitted sufficiently in advance of field requirements to allow ample time for checking and no extension of the contract time will be granted to the Contractor, by reason of failure in this respect.

5.2. Manufacturer's catalog sheets with complete technical data, marked as necessary to indicate materials, devices and equipment being furnished.

5.3. Field test reports including but not limited to the following:

5.3.1. Blackout simulation

5.3.2. Voltage level test

5.3.3. Phase relationship

5.4. List of miscellaneous materials proposed, including conduits, conductors, insulators, and manhole accessories, identifying manufacturer and type.

5.5. All submittals shall be complete and shall contain all required and detailed information.

6. PROJECT CONDITIONS

6.1. Site Access: The contractor shall provide a list of service personnel and tools needed for the project. Any personnel not listed shall not gain access to the site.

6.2. Occupied Premises: Take necessary precautions to ensure the safety and comfort of the occupants throughout the project.

6.3. Weather Considerations: Prepare for potential weather-related delays and take appropriate measures to protect materials from adverse weather conditions.

7. WARRANTY

7.1. From the commencement of installation up to final acceptance, the contractor shall assume full responsibility for the following:

7.1.1. Any damage or destruction of the works except those occasioned by force majeure; and

7.1.2. Safety, protection, security, and convenience of his personnel, third parties, and the public at large, as well as the works, equipment, installation and the like to be affected by his construction work.

7.2. The ATS must carry a one (1) year warranty for parts, excluding consumable items, and a one (1) year warranty for works/repair/overhaul. The Warranty Certificate shall commence from the date of end-user acceptance. Any parts found to be defective, or any deficiency incurred within the specified warranty period shall be repaired or replaced by the winning bidder free of charge and without any cost to ASTI.

8. DELIVERY TERMS

8.1. The ATS including all items and its accessories must be delivered within sixty (60) calendar days after receipt of the Notice to Proceed.

8.2. After Sales Service and Support during the warranty period, all reported defects shall be completely/satisfactorily repaired/replaced by the winning bidder/supplier within seventy-two (72) hours after receipt of a verbal and/or written notice from the procuring entity.

9. PAYMENT TERMS

9.1. Payment shall be made only upon certification/acceptance by the end-user that the Goods and/or Services are rendered or delivered in accordance with the terms of this Contract and have been duly inspected and accepted. No payment shall be made for services not yet rendered or for supplies and materials not yet delivered under this Contract.

10. LIQUIDATED DAMAGES

10.1. Failure to comply with the terms and conditions of the contract will result in the payment of corresponding penalties/liquidated damages in the amount to 1/10 of 1% of the cost of the unperformed portion for everyday delay. Once the cumulative number of liquidated damages reaches 10% of the amount of the contract, ASTI shall rescind the contract, without prejudice to other courses of action and remedies open to it.

TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):

Php 2,000,000.00

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.