



ASTI-FM 03-11
REV 2/30 APR 2024

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

IB No:	24-06-4887	Date:	June-27-2024
PR No:	GAA-24-06-19387	Date:	June-18-2024
Source of Funds:			
Total ABC:	Php 3,600,000.00		
Time, Date & Venue of Pre-bid Conference:	July 05, 2024, 9:00 AM at Videoconferencing (MS Teams)		
Time and Date of Submission of Bids:	July 17, 2024, 09:00 AM		
Time, Date & Venue of Opening Bids:	July 17, 2024, 9:30 AM at DOST-ASTI and Videoconferencing (MS Teams)		
Date of availability of Complete Set of Documents:	June 28, 2024		
Deadline of Potential Bidder's Clarifications:	July 08, 2024		
Deadline of ASTI's Supplemental Bid Bulletin:	July 10, 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>Bypass Isolation Transfer Switch for Generator Sets</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 Bypass Isolation Transfer Switch 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 Transfer Switch.</p>	1	lot	3600000.00	3,600,000.00

2. APPROVED BUDGET FOR THE CONTRACT

2.1. The total Approved Budget for the Contract for this procurement is Three Million Six Hundred Thousand Pesos (₱3,600,000.00), inclusive of all government taxes and other charges.

3. SCOPE OF WORKS

3.1. Supply and delivery of new transfer switch 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 Automatic Transfer Switch (ATS) and temporary dismantling of existing cables and wirings of the old ATS.

3.3. Mounting and installation of transfer switch 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 Transfer Switch 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 switched on at the same time.

3.4. Delivery, mounting, installation and tapping of power and control lines to the brand-new transfer switch (commercial power as main and generator set as backup). Existing power cables shall be used.

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

3.6. Testing and commissioning through blackout simulation and test run the generator set using transfer switch 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 transfer switch.

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 downtime for any offices functioning 24/7.

3.10. The service provider shall submit methodology and Gantt chart for the proposed activities upon awarding of the project.

3.11. The service provider shall submit all materials to be used on the project and is subject to 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 Sets and ASTI Network Operation Center (NOC). The Generator Set shall supply power to the ASTI NOC to minimize downtime during actual replacement of transfer switch. Supplier can opt to provide a mobile generator to keep the critical load running.

3.13.2. Supplier shall perform site inspection before the installation of the transfer switch to verify the actual condition and the wire needed to connect ASTI generator set and ASTI NOC.

3.14. Up to Ten (10) minutes downtime to transfer power of critical loads. Temporary power supply to critical loads shall be provided by the contractor to ensure minimal interruption.

3.15. Transfer of cables for the connection of the load side of transfer switch shall be performed preferably after office hours as it would cause temporary power interruption.

3.16. Enclosure:

3.16.1. The dimension of the enclosure shall fit on the Generator Room.

3.16.2. Contractor must remove the non-operational manual ATS enclosure.

3.16.3. Contractor must relocate the PCB enclosure of the circuit breaker that will be affected with the installation of the new enclosure.

3.16.4. Contractor must remove the metal gate going to the ATS.

3.16.5. Contractor must consult the end-user with any removal / relocation of any equipment that may impede the installation of the new enclosure.

4. TECHNICAL SPECIFICATIONS

4.1. Bypass Isolation Transfer Switch (Rated 1600A)

4.1.1. Automatic Transfer Switch

4.1.1.1. No. of Phase: 3-phase

4.1.1.2. No. of Pole: 3-poles

4.1.1.3. Voltage: 220-240V

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

4.1.1.5. Circuit Breaker:

4.1.1.5.1. In rated current up to 50 degrees Celsius: 1600A calibrated at 45 degrees Celsius

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

4.1.1.5.3. Network Type: AC

4.1.1.5.4. Network Frequency: 50/60 Hz

4.1.2. Manual Transfer Switch

4.1.2.1. No. of Phase: 3-phase

4.1.2.2. No. of Pole: 3-poles

4.1.2.3. Voltage: 220-240V

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

4.1.2.5. Circuit Breaker:

4.1.2.5.1. In rated current up to 50 degrees Celsius: 1600A calibrated at 45 degrees Celsius

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

4.1.2.5.3. Network Type: AC

4.1.2.5.4. Network Frequency: 50/60 Hz

4.1.3. Bypass Protection / Switch

4.1.3.1. No. of Phase: 3-phase

4.1.3.2. No. of Pole: 3-poles

4.1.3.3. Voltage: 220-240V

4.1.3.4. Current: 1600A

4.1.4. Intelligence Control

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

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

4.1.4.3. Normal and emergency control relays

4.1.4.4. Normal and emergency control circuit breaker protection

4.1.4.5. Indicator lamp (red and green) to indicate status or operation of the system

4.1.4.6. Push button switches for manual operation of switching mechanism

4.1.4.7. Selector switch (Auto-Manual)

4.1.4.8. Selector switch (Normal-Test)

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

4.1.4.10. With Time Delay Engine Starting (TDES)

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

4.1.4.11.1. VSR - Voltage relay for under voltage, loss of phase, reverse phase sequence, over and under frequency function.

4.1.5. Enclosure:

4.1.5.1. Follows National Electrical Manufacturer Association (NEMA) standard

4.1.5.2. Powder Coated Enclosure

4.1.5.3. With digital panel meter to show important electrical parameter values (i.e. Voltage and Current)

4.1.5.4. With electrical diagram attached to the enclosure for the technician reference

4.1.5.5. With provided grounding terminal

4.1.5.6. ATS with Manual Transfer Switch (MTS) capability

4.2. Existing Site Condition and Retrofitting Works

4.2.1. The existing ATS and MTS shall be removed and surrendered to ASTI, and the existing cables and raceway shall be reused and retrofitted for the new system.

4.3. Bypass switch should be designed so that power to the load is not interrupted in any normal bypass operation. Consequently, bypass functions can be performed at any time, without danger of disrupting power to critical loads.

4.4. The scope of this project shall conform to the requirements of:

4.4.1. Philippine Electrical Code

4.4.2. International Standards Organization ISO 9001

4.5. Additional Requirements

4.5.1. The Contractor must provide a colored brochure/catalogue (in English language) of the major components to be supplied.

4.5.2. The Contractor must provide an initial

schematic diagram and methodology of works during bid submission for the proposed layout by the Contractor to allow ASTI to check and study the proposed system.

4.5.3. The Contractor must have an ISO Certification for ISO 9001 to ensure quality management on project requirement, as specified in item 4.4.2.

5. SUBMITTALS

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

5.1.1. All drawings should be signed and dry sealed by 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

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 transfer switch 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 transfer switch 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 are 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 every day 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 3,600,000.00

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.