



08 April 2024

ASTI - BIDS AND AWARDS COMMITTEE

SUPPLEMENTAL BULLETIN NO. BAC-2024-04-002

**REPLACEMENT, DISMANTLING, INSTALLATION, AND TESTING OF
AUTOMATIC TRANSFER SWITCH OF DOST-ASTI GENSETS**

The ASTI Bids and Awards Committee (BAC) issues this Supplemental/Bid Bulletin to clarify, modify or amend items in the Bidding Documents and to reply to queries raised by the potential bidders through letters/emails for the information of all bidders for the procurement of:

Item:	Replacement, Dismantling, Installation, and Testing of Automatic Transfer Switch of DOST-ASTI GenSets
Approved Budget for the Contract:	Two Million Pesos Only (₱2,000,000.00)
Invitation to Bid No.:	24-03-4711 dated 26 March 2024
Purchase Request No.:	GAA-24-02-18613 dated 12 March 2024
Published Date (PhilGEPS):	26 March 2024 10695341

A. AMENDMENT TO PROCUREMENT DETAILS AND FORMS

REFERENCE	AMENDMENT/CHANGE/CLARIFICATION
Section I. Invitation to Bid, Page 9	<p>FROM:</p> <p>2. The DOST-ASTI now invites bids for the above Procurement Project. Delivery of the Goods is required as specified in Section VI. Schedule of Requirements. Bidders should have completed, within three (3) years, specifically, from 15 April 2021 to 14 April 2024 from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).</p> <p>7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before 15 April 2024, 9:00 AM. Late bids shall not be accepted.</p> <p>9. Bid opening shall be on 15 April 2024, 9:30 AM at the given address below and/or via videoconferencing/webcasting via Microsoft Teams (see details below). Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.</p> <p>TO:</p> <p>2. The DOST-ASTI now invites bids for the above Procurement Project. Delivery of the Goods is required as specified in Section VI. Schedule of Requirements. Bidders should have completed, within three (3) years, specifically, from 22 April 2021 to 21 April 2024 from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).</p> <p>7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before 22 April 2024, 9:00 AM. Late bids shall not be accepted.</p> <p>9. Bid opening shall be on 22 April 2024, 9:30 AM at the given address below and/or via videoconferencing/webcasting via Microsoft Teams (see details below). Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.</p>

<p>Section II. Instructions to Bidders, Page 14</p>	<p>FROM:</p> <p>10.2. The Bidder's SLCC as indicated in ITB Clause 5.3 should have been completed within three (3) years, specifically, from 15 April 2021 to 14 April 2024 prior to the deadline for the submission and receipt of bids.</p> <p>TO:</p> <p>10.2. The Bidder's SLCC as indicated in ITB Clause 5.3 should have been completed within three (3) years, specifically, from 22 April 2021 to 21 April 2024 prior to the deadline for the submission and receipt of bids.</p>																																						
<p>Section III. Bid Data Sheet, Clause 5.3, Page 19</p>	<p>FROM:</p> <p>For this purpose, contracts similar to the Project shall be:</p> <ul style="list-style-type: none"> a. Supply and Delivery of Automatic Transfer Switch (ATS) for Generator Sets. b. completed within three (3) years, specifically, from 15 April 2021 to 14 April 2024 prior to the deadline for the submission and receipt of bids. <p>TO:</p> <p>For this purpose, contracts similar to the Project shall be:</p> <ul style="list-style-type: none"> a. Supply and Delivery of Automatic Transfer Switch (ATS) for Generator Sets. b. completed within three (3) years, specifically, from 22 April 2021 to 21 April 2024 prior to the deadline for the submission and receipt of bids. 																																						
<p>Section VII. Technical Specifications, Pages 27-30</p>	<p>FROM:</p> <table border="1" data-bbox="435 1166 1471 2192"> <thead> <tr> <th data-bbox="440 1173 548 1231">LOT NO.</th> <th data-bbox="548 1173 1235 1231">SPECIFICATIONS</th> <th data-bbox="1235 1173 1466 1231">STATEMENT OF COMPLIANCE</th> </tr> </thead> <tbody> <tr> <td data-bbox="440 1231 548 1265">1</td> <td data-bbox="548 1231 1235 1265">Automatic Transfer Switch for Generator Sets</td> <td data-bbox="1235 1231 1466 1265"></td> </tr> <tr> <td data-bbox="440 1265 548 1300"></td> <td data-bbox="548 1265 1235 1300">3. SCOPE OF WORKS</td> <td data-bbox="1235 1265 1466 1300"></td> </tr> <tr> <td data-bbox="440 1300 548 1452"></td> <td data-bbox="548 1300 1235 1452">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.</td> <td data-bbox="1235 1300 1466 1452"></td> </tr> <tr> <td data-bbox="440 1452 548 1512"></td> <td data-bbox="548 1452 1235 1512">3.2. Dismantling of the old ATS and dismantling of cables and wirings of the old ATS.</td> <td data-bbox="1235 1452 1466 1512"></td> </tr> <tr> <td data-bbox="440 1512 548 1637"></td> <td data-bbox="548 1512 1235 1637">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</td> <td data-bbox="1235 1512 1466 1637"></td> </tr> <tr> <td data-bbox="440 1637 548 1789"></td> <td data-bbox="548 1637 1235 1789">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.</td> <td data-bbox="1235 1637 1466 1789"></td> </tr> <tr> <td data-bbox="440 1789 548 1849"></td> <td data-bbox="548 1789 1235 1849">3.3.2. Mechanical interlock: To ensure two (2) power sources cannot be switch on at the same time.</td> <td data-bbox="1235 1789 1466 1849"></td> </tr> <tr> <td data-bbox="440 1849 548 1948"></td> <td data-bbox="548 1849 1235 1948">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).</td> <td data-bbox="1235 1849 1466 1948"></td> </tr> <tr> <td data-bbox="440 1948 548 2008"></td> <td data-bbox="548 1948 1235 2008">3.5. Configuration of ATS settings in the presence of ASTI personnel/representative.</td> <td data-bbox="1235 1948 1466 2008"></td> </tr> <tr> <td data-bbox="440 2008 548 2108"></td> <td data-bbox="548 2008 1235 2108">3.6. Testing and commissioning through blackout simulation and test run the Generator Set using ATS features in the presence of ASTI personnel/representative.</td> <td data-bbox="1235 2008 1466 2108"></td> </tr> <tr> <td data-bbox="440 2108 548 2192"></td> <td data-bbox="548 2108 1235 2192">3.7. Apply proper sealant on every penetration to be made during the construction, like fire sealant, water proofing for perimeter walls.</td> <td data-bbox="1235 2108 1466 2192"></td> </tr> </tbody> </table>			LOT NO.	SPECIFICATIONS	STATEMENT OF COMPLIANCE	1	Automatic Transfer Switch for Generator Sets			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.	
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	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 downtime 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 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.	
	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	

TO:

LOT NO.	SPECIFICATIONS	STATEMENT OF COMPLIANCE
1	Automatic Transfer Switch for Generator Sets	
	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.	
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	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 downtime 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 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 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. 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 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 ten (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	
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	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 carry the brands of ASTI Generator Sets, specifically 250KVA P220HE2 FG WILSON-1300SERIES and 350KVA 344EPTP PERKINS-1506A-E88TAG5 to maintain the performance, functionality and useful life of equipment pursuant to Section 18 of the 2016 revised IRR of RA No. 9184. Installation of Bypass-Isolation Transfer Switch is preferred.	
	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	

B. RESPONSE TO QUERIES

QUERY/ISSUE	BAC/END-USER RESPONSE/CLARIFICATION
Mr. Nuevo of Power Access asked if the 250kVA and 350kVA specified in Technical Specification 1.1 is correct. He also asked if they have two generator sets with a single ATS.	Mr. Crisostomo answered that it was correct and that they have two (2) generator sets with a single ATS and synchro panel.
Mr. Pullan of Automation and Power Distribution Services asked if the two (2) generator sets were synchronized.	Mr. Crisostomo said that it is synchronized.
Mr. Nuevo asked if the synchronizing system was working properly.	Mr. Crisostomo answered that it is working properly.
Installation of Bypass-Isolation Transfer Switch	Installation of Bypass-Isolation Transfer Switch is not mandatory. However, if prospective bidders can accommodate said requirement, the costs of the installation of Bypass-Isolation Transfer Switch shall form part of their financial bids.

ADDITIONAL INSTRUCTION/S: Prospective bidder/s are required to: 1) amend the form to update existing information or 2) submit a copy of supplemental bulletin with statement of compliance or signature of authorized representative. **Non-compliance with this requirement shall be grounds for disqualification.**

Please be guided accordingly.

Prepared by:

KATHERINE B. RAMOS
Head, DOST-ASTI BAC Secretariat

Approved by:

BAYANI BENJAMIN R. LARA
Chairperson, DOST-ASTI BAC