

Bid Bulletin No. 1
December 10, 2021

Public Bidding No. 009-2021

**PROCUREMENT OF ELECTRICAL SYSTEM UPGRADE AND REPLACEMENT OF
 MANUAL TRANSFER SWITCH FOR THE PROCUREMENT SERVICE - DEPARTMENT
 OF BUDGET AND MANAGEMENT**

Issued pursuant to Sec. 22.5 of the IRR of R.A. 9184 to clarify and/or amend certain provisions in the Bidding Documents issued for this project.

A. AMENDMENTS

AMENDMENTS/INCLUSION	BASIS FOR AMENDMENT/ INCLUSION												
<p>SECTION I: INVITATION TO BID Page 8-9</p> <p>xxx</p> <p>2. The summary of the bidding activities is as follows:</p> <table border="1" data-bbox="226 1099 983 1659"> <tbody> <tr> <td>xxx</td> <td>xxx</td> </tr> <tr> <td>Pre-bid Conference</td> <td>December 13, 2021; 10:00 A.M. 1:30 P.M.</td> </tr> <tr> <td>Last day of Submission of Written Clarification</td> <td>December 17, 2021;</td> </tr> <tr> <td>Last day of Issuance of Bid Bulletin</td> <td>December 20, 2021;</td> </tr> <tr> <td>Deadline for Submission</td> <td>December 27, 2021; 10:00 A.M. 1:30 P.M.</td> </tr> <tr> <td>Opening of Bids</td> <td>Immediately after the Deadline of Submission of Bids</td> </tr> </tbody> </table> <p>xxx</p>	xxx	xxx	Pre-bid Conference	December 13, 2021; 10:00 A.M. 1:30 P.M.	Last day of Submission of Written Clarification	December 17, 2021;	Last day of Issuance of Bid Bulletin	December 20, 2021;	Deadline for Submission	December 27, 2021; 10:00 A.M. 1:30 P.M.	Opening of Bids	Immediately after the Deadline of Submission of Bids	<p>To amend the time of activity due to the conflict of schedule with other projects.</p>
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SECTION VII: TECHNICAL SPECIFICATIONS

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Conforms to the Terms and Conditions on the attached Terms of Reference and its Annex

xxx

Please refer to the Annex "A" for the Terms of Reference of the project.

All other portions of the Bidding Documents affected by these amendments shall be made to conform to the same.

Amendments/inclusions/clarifications made herein shall be considered an integral part of Bidding Documents.

SIGNATURE REDACTED

JOSEPH CONRAD D DUEÑAS

Chairperson, Internal Bids and Awards Committee 1

Terms of Reference

Electrical System Upgrade and Replacement of Manual Transfer Switch

Background and Objective

Introduction

Procurement Service-Department of Budget and Management (PS-DBM), an attached agency of the Department of Budget and Management, whose mandate is to identify supplies, materials, and such other items including equipment and construction materials, which can be economically purchased through central procurement. Common-Use Supplies and Equipment are purchased, warehoused and distributed for resale to agencies of government, including Government Owned or Controlled Corporations (GOCC's), State Universities and Colleges (SUCs), and Local Government Units (LGUs).

The PS-DBM building was erected last 2012. The electrical system back then was made to comply with its present needs and does not have spare circuit breakers to accommodate future expansions.

Objective

The objective of this project is to achieve the following:

- a. To replace deteriorated/damaged Automatic Transfer Switch with a Manual Transfer Switch.
- b. To install additional panel boards to accommodate the procurement of additional Air Conditioning Units.
- c. To distribute properly the power load of the electrical system.

General Requirement

General Scope of Work

The work contemplated under this project shall consist of the furnishing of all materials, labor, tools and equipment, and the satisfactory performance to complete the installation of additional panel boards and replacement of manual transfer switch in the PS-DBM New building. The project, upon completion must be ready for use and must be under strict conformity with the Specifications and other related laws or legal codes.

The principal items of works are enumerated below:

- 1. Fabrication and Installation of Manual Transfer Switch.**
 - NEMA 12 with busbar and grounding bus
 - With 2 - 800AT, 230 volts, 3 poles, 18kAIC, 60 hz MCCB ABN803C
 - Enclosure is made of Galvanized Iron (G.I.) Sheet #16, wrinkled gray paint finish
 - Removal of existing transfer switch and installation of the new manual transfer switch.
 - Including all necessary materials, tools, labor, accessories, etc to complete the work.

- 2. Fabrication and Installation of "Panel 1"**
 - MCCB in NEMA 12 enclosure with grounding bus
 - With 400AT/400AF, 230 volts, 3 poles, 60 hz MCCB ABN403C

(Handwritten mark)

- Enclosure is made of Galvanized Iron (G.I.) Sheet #16, wrinkled gray paint finish
 - Mounting of "Panel 1" in the Genset Room
 - Termination of line side of "Panel 1" to our existing MDP
 - Including all necessary materials, tools, labor, accessories, etc to complete the work.
- 3. Laying out of feeder wire from the load side of "Panel 1" to the line side of "Panel 2"**
- 2 set of 3-80mm² THHN/THWN Copper wire (approx distance is 50 meters)
 - 1 set of ground wire, 14.0mm² THHN/THWN Copper wire (approx distance is 50 meters)
 - In 80mm diameter IMC
 - Including all necessary supports, materials, tools, labor, accessories, etc to complete the work.
- 4. Fabrication and Installation of "Panel 2"**
- MCCB in NEMA 3R enclosure with grounding bus
 - Enclosure is made of Galvanized Iron (G.I.) Sheet #16, wrinkled gray paint finish
 - With 400AT/400AF, 230 volts, 3 poles, 18kAIC, 60hz MCCB ABN403C
 - With 2 branches of 200AT/225AF, 230 volts, 3 poles, 18kAIC, 60hz MCCB ABN203C
 - Mounting of "Panel 2" in the designated area.
 - Including all necessary materials, tools, labor, accessories, etc to complete the work.
- 5. Fabrication and Installation of "Panel 3" and termination of wire to "Panel 2"**
- MCCB in NEMA 3R enclosure with grounding bus
 - With 200AT/225AF, 3 poles, 18kAIC, 230 volts, 60 hz MCCB ABN203C
 - Enclosure is made of Galvanized Iron (G.I.) Sheet #16, wrinkled gray paint finish
 - With 12 circuit branches:
 - a. Circuit branches #1 - #5
 - 60AT/100AF, 230 volts, 2 poles, 60 hz MCCB ABN102C
 - b. Circuit branches #6 - #12
 - 50AT/100AF, 230 volts, 2 poles, 60 hz MCCB ABN102C
 - Mounting of "Panel 3" in the designated area
 - Termination of line side of "Panel 3" to the 1st branch of "Panel 2"
 - Including all necessary materials, tools, labor, accessories, etc to complete the work.
- 6. Fabrication and Installation of "Panel 4" and termination of wire to "Panel 2"**
- MCCB in NEMA 3R enclosure with grounding bus
 - With 200AT/225AF, 3 poles, 18kAIC, 230 volts, 60 hz MCCB ABN203C
 - Enclosure is made of Galvanized Iron (G.I.) Sheet #16, wrinkled gray paint finish
 - With 12 circuit branches:
 - a. Circuit branches #1 - #8
 - 60AT/100AF, 230 volts, 2 poles, 60 hz MCCB ABN102C
 - b. Circuit branches #9 - #12
 - 50AT/100AF, 230 volts, 2 poles, 60 hz MCCB ABN102C
 - Mounting of "Panel 4" in the designated area
 - Termination of line side of "Panel 4" to the 2nd branch of "Panel 2"
 - Including all necessary materials, tools, labor, accessories, etc to complete the work.
- 7. Laying out of 8 distribution lines from "Panel 3" to the ACU outdoor unit**
- a. 5 distribution lines have the specifications of the following:
 - 60AT/100AF, 230 volts, 60 hz, 2 poles MCCB ABN102C in NEMA 3R enclosure (circuit breaker of the outdoor unit of ACU)

- wire to be used: 2 – 8.0mm² THHN/THWN Copper wire with 1 – 5.5mm² THHN/THWN Copper wire (ground wire)
- In 20mm diameter RSC
- Approximately 60 meters in distance each
- Including all necessary supports, materials, tools, labor, accessories, etc to complete the work.

b. 3 distribution lines have the specifications of the following:

- 50AT/100AF, 230 volts, 60 hz, 2 poles MCCB ABN102C in NEMA 3R enclosure (circuit breaker of the outdoor unit of ACU)
- wire to be used: 2 – 8.0mm² THHN/THWN Copper wire with 1 – 5.5mm² THHN/THWN Copper wire (ground wire)
- In 20mm diameter RSC
- Approximately 60 meters in distance each
- Including all necessary supports, materials, tools, labor, accessories, etc to complete the work.

8. Laying out of 8 distribution lines from “Panel 4” to the ACU outdoor unit

a. 8 distribution lines have the specifications of the following:

- 60AT/100AF, 230 volts, 60hz, 2 poles MCCB ABN102C in NEMA 3R enclosure (circuit breaker of the outdoor unit of ACU)
- wire to be used: 2 – 8.0mm² THHN/THWN Copper wire with 1 – 5.5mm² THHN/THWN Copper wire (ground wire)
- In 20mm diameter RSC
- Approximately 60 meters in distance each
- Including all necessary supports, materials, tools, labor, accessories, etc to complete the work.

9. Installation of Grounding System

- 100 mm², soft drawn bare tin-annealed copper conductor
- 100 mm², soft drawn bare tin-annealed copper conductor with PVC insulation
- Weld Metal Powder for exothermic
- Connections including Molder and Holder, Etr.
- Grounding Rod (3m x 19mm dia.) Copper Clad
- Grounding Accessories such as Cable Terminals, Lugs Etr.
- Including all necessary accessories, materials, supports, tools, labor, etc. to complete the work.

10. Other concomitant works.

Technical Specifications of the Products

a. Wires and Cables

- Branded and brand new
- All wires shall be copper, shall be 98% conductivity, and variation shall be within 1% of the actual size called for.
- All wires and cables shall comply with the requirements of the Underwriters Laboratories (UL 83).
- All wires shall be moisture and heat resistant, flame retardant, for dry and wet.
- Voltage and Max operating temperature shall be 600V and 90 degrees.

b. Conduits and fittings

- Branded and brand new
- No wire shall be pulled into any conduit until the conduit system is completed in all details, in the case of concealed work until all rough plastering masonry has been completed, and in the case of exposed work until the conduit work has been completed in every detail.
- The ends of all conduits shall be tightly plugged to exclude plaster, dust, and moisture while the construction is in progress.

c. Circuit breakers

- Branded and brand new
- Shall meet NEMA and/or Underwriter's Laboratories Inc. specifications.

Verification of Existing Condition

All contractors shall be allowed to visit the actual site of the project prior to the submission of their proposal. A certificate of site inspection will be given to the contractor. This certificate will serve as an additional requirement for the proposal. No claim for extra compensation and time extension shall be entertained by PS-DBM for negligence or inadvertence on the Contractor's part in obtaining all necessary and pertinent data from the site.

Bidder's Eligibility Requirement

The contractor must have at least one (1) Registered Electrical Engineer (REE) and one (1) Registered Master Electrician (RME) present in the implementation of the whole project.

Safety

Contractor takes sole responsibility for the safety of the workers, inspectors, and PS-DBM Employees. Any accidents that may occur during project execution will be under his liability. All workers shall wear the necessary safety devices to ensure safety during construction. Safety Officers will ensure provision of safety and health programs to all workers.

Security and Identification Requirement

The Contractor is hereby required to comply the following:

1. Submission of a complete list of names of all workers to be employed for the duration of the construction project.
2. All workers must adhere to the security policies of the PS-DBM.
3. All workers are required to wear company uniforms. Said uniform shall bear the company name and logo.
4. The company identification cards should be worn at all times when inside the PS-DBM Compound premises.

Other Requirements

The contractor shall coordinate with concerned personnel of the PS-DBM for the conduct of any activity related to the fulfilment of their obligations. Regular work can be performed from Mondays to Sundays, 8:00am to 5:00pm depending on the type of work and on the discretion of the Project-in-Charge. The contractor shall ensure that there are no disruptions on the operation of the PS-

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DBM. Type of works that need electrical downtime shall be made during holidays/weekends. Contractor shall also process, if any, all required permits/licenses for this project.

Project Duration

The contractor is given 45 calendar days upon receipt of the Notice to Proceed to perform and complete all the activities. The contractor must submit a weekly accomplishment report or Gantt chart on the implementation of the project.

Penalty

In case of failure to complete the project within the time specified, a penalty of one-tenth of one percent (1/10 of 1%) of the total project cost for every day of delay shall be imposed.

Warranty

The contractor needs to submit a warranty certificate in favour of Procurement Service to cover warranty from defects and failures for all of their supplied equipment and workmanship for at least 1 year.

Contractor also needs to submit certificates and/or results of testing of panel boards and circuit breakers such as but not limited to the following:

- a. ground test
- b. short circuit test
- c. insulation resistance test

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