



# MARIANO MARCOS STATE UNIVERSITY

## Bids and Awards Committee

### INVITATION TO MAKE AN OFFER: Negotiated Procurement

21-019

**THE PROJECT: Fire Detection and Alarm System for CTE**  
**Number of Working Days: 70** calendar days  
**ABC: P744,941.60**

1. The Mariano Marcos State University (MMSU), with offices at Quiling Sur, City of Batac, Ilocos Norte, invites the public to make an offer to furnish all labor, materials, tools and equipment necessary and proper for the implementation of the above Project as per approved designs, plans and drawings.
2. This process is in accordance with Section 53 of R.A. 9184, the Government Procurement reform Act and Section 53.9 of the Implementing Rules and Regulations where interested and qualified contractors are to submit proposals.
4. The offer must be in writing submitted at the address below on or before **November 16, 2021; 2:00 PM** together with the following documents:
  - a) The amount of the offer in writing duly signed by the person making the offer, indicated in numbers and figures.
  - b) The particulars of the offer as to labor, materials, tools, equipment and other work details.
  - c) Documents in support of the legal, technical and financial capability of the person making the offer, which documents shall be confirmed and verified (3 copies).
5. It is understood that any offer may be accepted or rejected, or the process invalidated, at any time prior to contract award, without liability to anyone.
6. Documents for this procurement may be secured from the MMSU BAC Secretariat at the address below or downloaded from the MMSU website or from the Philippine Government Electronic Procurement System (PhilGEPs) website.
7. For questions and inquiries, please write or email the University President, thru the BAC Chair, at the address indicated below.

**Mariano Marcos State University**  
Quiling Sur, City of Batac  
[www.mmsu.edu.ph](http://www.mmsu.edu.ph)

November 12, 2021

  
**NATHANIEL R. ALIBUYO**  
BAC CHAIR

Received: \_\_\_\_\_ Received: \_\_\_\_\_

Received: \_\_\_\_\_

Republic of the Philippines  
Mariano Marcos State University  
City of Batac, Ilocos Norte

### SPECIFICATION

**Project Title** : Fire Detection and Alarm System for CTE  
**Project Location** : MMSU – CTE, Laoag City, Ilocos Norte

Item No.	Description
1.	<b>Fire Detection and Alarm System</b> Addressable Fire Alarm Control Panel (FACP) with two addressable loops Addressable Smoke Detector Addressable Sounder Beacon (Horn with Strobe Light) Addressable Manual Call Point (Manual Pull Station) Octagonal Metallic Utility Box 3m X 20mm Ø IMC or EMT Conduit Pipes 3m X 25mm Ø IMC or EMT Conduit Pipes 2-Core AWG #16 Fire Retardant Cable Pipes, Conduits, Utility Box, and other supporting accessories

Prepared by:

  
**WILSON R. DULDULAO**  
Professional Electronics Engineer

Checked by:

  
**AIDA V. CABANG**  
Chief, Physical Planning Section

Noted by:

  
**ROMEO R. DULDULAO**  
Director, PPDO

Republic of the Philippines  
Mariano Marcos State University  
City of Batac, Ilocos Norte

### BILL OF QUANTITIES

**Project Title** : Fire Detection and Alarm System for CTE  
**Project Location** : MMSU – CTE, Laoag City, Ilocos Norte

Item No.	Description	Quantity	Unit
1.	<b>Fire Detection and Alarm System</b> Addressable Fire Alarm Control Panel (FACP) with two addressable loops Addressable Smoke Detector Addressable Sounder Beacon (Horn with Strobe Light) Addressable Manual Call Point (Manual Pull Station) Octagonal Metallic Utility Box 3m X 20mm Ø IMC or EMT Conduit Pipes 3m X 25mm Ø IMC or EMT Conduit Pipes 2-Core AWG #16 Fire Retardant Cable Pipes, Conduits, Utility Box, and other supporting accessories	1  30 8 8  100 150 25 10 1	Unit  Pieces Pieces Pieces  Pieces Pieces Pieces Rolls Lot

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Republic of the Philippines  
**MARIANO MARCOS STATE UNIVERSITY**  
 City of Batang, 2906, Ilocos Norte

**DETAILED ESTIMATES**

Item No.:	1	Quantity	1		
Description:	Fire Detection and Alarm System	Unit:	lot		
Description		Quantity	Unit	Unit Price	Sub-Total
Addressable Fire Alarm Control Panel (FACP) with two (2) addressable loops					
Addressable Smoke Detector					
Addressable Sounder Beacon (Horn with Strobe Light)					
Addressable Manual Call Point (Manual Pull Station)					
Octagonal Metallic Utility Box					
3m X 20mmØ IMC or EMT Conduit Pipes					
3m X 25mmØ IMC or EMT Conduit Pipes					
Assorted Metallic Coupling (for IMC or MET and Utility Box)					
Assorted Pipe Hangers, Anchor Bolt, Screws, Tox and other mounting accessories and materials					
2-core AWG #16 Fire Retardant Cable					
Other additional parts of the cabling installation cabling installation and electrical requirements					
Total Materials Cost				Sub-Total:	
				Unit Cost:	
Description		Quantity	Unit	Unit Price	Sub-Total
Total Equipment Cost				Sub-Total	
				Unit Cost	
Description		Quantity	Unit	Unit Price	Sub-Total
Total Labor Cost				Sub-Total	
				Unit Cost	

DIRECT COST:  
 DIRECT UNIT COST:

Plus Indirect Cost:  
 15% OCM  
 10% CP  
 5% VAT  
 Indirect Unit Cost:

Total Direct and Indirect Cost:

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## PROJECT INFORMATION DOCUMENT

**Project Title** : Fire Detection and Alarm System of CTE  
**Project Location** : MMSU CTE – Laoag City, Ilocos Norte

General Instructions:

The project calls for the furnishing of all materials, labor, tools and equipment needed for the provision of Fire Detection and Alarm System at College Teacher Education, Laoag City, Ilocos Norte. The said project shall be done in strict conformity with the design, plans, and other details, as well as the specifications, this Project Information Document and other related contract documents prepared and approved for the said project. It is highly recommended that the contract shall conduct site inspection in order to assess the existing condition of the site where the project will take place.

It also calls for the employment of manpower with the appropriate skills and expertise to undertake the specific scope of works and to enable the contractor to produce and deliver to satisfaction of the owner the needed services and output required for this undertaking. The contractor shall provide a site engineer that will serve as the Project-in-Charge, a safety officer and shall have adequate and readily available construction equipment to be utilized during the construction activities.

The contractor shall ensure that the construction activities must not interfere, obstruct or disturb any on-going operation of the building and other facilities. Hence, the contractor shall isolate the working area from the other portions of the building.

1. Fire Detection and Alarm System
  - a. All Electronics works and installation shall be done in strict compliance with the Requirements of the Fire Code of the Philippines, Philippine Electronics Code, R.A. 9292 and all other existing Laws, Regulations, Codes and Local Ordinances.
  - b. All Electronic works shall be done in a neat and workmanship manner.
  - c. All Electronics work shall be under the direct supervision of a duly Licensed Professional Electronics Engineer and/or Electronics Engineer.

- d. House Cabling Installations shall be done in accordance with the following recommendations: ANSI/TIA/EIA 569 - Commercial Building standard for Telecommunications Pathways and Spaces and ANSI/TIA/EIA-607 - Commercial Building Grounding and Bonding Requirements for Telecommunications
- e. All materials to be used shall be new and approved type for location.
- f. Contractor must be responsible for reviewing the full set of bid documents and be of the total scope of work prior to submission of bid. All works shown on the drawings not specifically called out as existing shall be considered work to be performed under the contract.
- g. Prior to submission of Proposal, Bidders, shall visit and carefully examine the site to become familiar with the existing conditions and he difficulties that may arise during the execution of this work. Submission of proposal shall be construed as evidence that such examination has been made. Later claims will not be recognized for extra labor, equipment or materials required due to difficulties encountered. No allowance shall be subsequently given to the contractor by reason of any error due to the contractor's negligence to comply with this requirement. Any discrepancies between the drawings and conditions should be reported to the Engineering/Planning office or any personnel who is in authority to the project.
- h. Before commencing work, the Contractor shall file all required permits, test reports/results, certifications for TCO and CO and pay all required fees.
- i. Upon completion of all Electronics work, the Contractor shall calibrate, test and adjust all circuits, devices and other components/items installed in the system. Any of these circuits, devices and other components/items found to be defective and ineffective shall be immediately replaced with a new one and will be recalibrated, tested and readjusted. All such remedial work provided shall be at NO cost to the owner.
- j. All notations of "SCALE" are intended as approximations. The contractor shall be responsible to ascertain as the exact dimensions in the actual field.
- k. Unless otherwise noted, electronics equipment and all other passive and active components of the system as reflected on the drawings shall be considered visible at their approximate locations. The contractor shall install these items as per instructions and approval of the authorized representative of the Owner.
- l. All conduit runs reflected on the drawings are shown to outline the general routing of the major feeders and branch wiring. It is not within the scope of these drawings to show all necessary bends, pivots, offsets pull boxes and obstructions. It will be the responsibility of the contractor to install the system in compliance to the requirements of the Fire Code of the Philippines.
- m. Additional component such as pull boxes, junction boxes, cable race and trays that are not shown on the drawings shall be provided as per requirement of

- existing codes or as per safety purposes. These components shall be installed so as NOT to destroy the internal aesthetic view of the building. Should any of these components prevent the installation of raceway as delineated on the contract, deviation must be approved by the designer prior to installation of any variation due to field conditions and shall not represent any additional cost to the owner.
- n. All conduits and boxes that are installed as part of this project are exposed except in areas with accessible hung ceiling. Exposed conduits and boxes shall be painted with primer and finish coating with colors specified by the Architect to match the surrounding surfaces.
  - o. Electrical outlet or dedicated power source or electronic equipment and active components shall be provided including inside the terminal and distribution cabinets.
  - p. All openings/holes between floors, through rated fire and smoke walls created by the contractor for cable or conduit pass through shall be sealed with fire stopping materials and to be installed acceptable by local Fire and Building Official. Any other openings/holes created by the contractor that is left unused should also be sealed at the end of installation.
  - q. All exposed noncurrent-carrying metal parts of electronic and electrical equipment including raceways shall be grounded. A separate ground conductor shall be incorporated in all conduits. All metallic enclosures ensure continuity of the grounding circuit from the supply panel board grounding bus to the load ground terminal. The resistance from the service equipment ground bus to any load ground terminal should not exceed 0.5 ohms.
  - r. No low voltage wiring shall be permitted in the same raceway as power wiring.
  - s. All equipment shall have copper current carrying parts including ground bus and terminals.
  - t. Remove all debris resulting from removal and/or installation of electronics and electrical work from the premises.
  - u. Unless otherwise noted, "INSTALL" means to be PROVIDED, INSTALLED, CALIBRATED and COMMISSIONED BY THE CONTRACTOR.
  - v. The contractor shall be responsible for all restoration, sealing, waterproofing leaks and penetrations, core drilling, cutting, patching and painting for the complete contracted work indicated.

After all the works have been completed, the surrounding immediate areas affected in the prosecution of the project shall be cleaned and cleared of all excess materials and debris, temporary structures, facilities and utilities used during the construction period. All spillages and scattered caused by the painting work, grouts, adhesives, as well as markings and signage shall likewise be removed to the full satisfaction of the Owner.

All works indicated in the plans, specifications and in this document shall be fully completed within 70 calendar days from the receipt of the Notice to Proceed. The given duration of the project is already inclusive of pre-determined unworkable days.

The approved budget for the project to bid is *Seven Hundred Forty Four Thousand Nine Hundred Forty One and 60/100 Pesos Only* (₱ 744,941.60)

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Noted by:

  
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Director, Physical Planning and Development Office