



## Bid Notice Abstract

### Invitation to Bid (ITB)

**Reference Number** 12736448  
**Procuring Entity** CARLOS HILADO MEMORIAL STATE UNIVERSITY  
**Title** Procurement of Turnkey Project on Digital Educational Spaces: Enhancing Academic Delivery Across CHMSU Campuses  
**Area of Delivery** Negros Occidental

<b>Solicitation Number:</b>	CHMSU 26-007-0122-G	<b>Status</b>	<b>Pending</b>
<b>Trade Agreement:</b>	Implementing Rules and Regulations	<b>Associated Components</b>	7
<b>Procurement Mode:</b>	Public Bidding	<b>Bid Supplements</b>	0
<b>Classification:</b>	Goods	<b>Document Request List</b>	0
<b>Category:</b>	Information Technology Parts & Accessories & Perip	<b>Date Published</b>	23/01/2026
<b>Approved Budget for the Contract:</b>	PHP 5,000,000.00	<b>Last Updated / Time</b>	22/01/2026 14:39 PM
<b>Delivery Period:</b>	90 Day/s	<b>Closing Date / Time</b>	19/02/2026 09:00 AM
<b>Client Agency:</b>			
<b>Contact Person:</b>	Rowena De la Vida Prado Administrative Assistant II Mabini Street Talisay City Negros Occidental Philippines 6115 63-34-7120005 Ext.142 63-939-9296624 bac.sec@chmsu.edu.ph		

#### Description

CARLOS HILADO MEMORIAL STATE UNIVERSITY  
 BIDS AND AWARDS COMMITTEE  
 TALISAY CITY, NEGROS OCCIDENTAL

INVITATION TO BID  
 FOR THE PROCUREMENT OF TURNKEY PROJECT ON DIGITAL EDUCATIONAL SPACES: ENHANCING ACADEMIC DELIVERY ACROSS CHMSU CAMPUSES  
 CHMSU 26-007-0122-G

1. The Carlos Hilado Memorial State University, through the Corporate Budget for the Contract of 2026 approved by the governing Board (STF/CO), intends to apply the sum of FIVE MILLION PESOS (Php 5,000,000.00), being the Approved Budget for the Contract (ABC) to payments under the contract for the FOR THE PROCUREMENT OF TURNKEY PROJECT ON DIGITAL EDUCATIONAL SPACES: ENHANCING ACADEMIC DELIVERY ACROSS CHMSU CAMPUSES. Bids received in excess of the ABC shall be automatically rejected at bid opening.

SMART CLASSROOM EQUIPMENT Php 5,000,000.00  
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2. The Carlos Hilado Memorial State University now invites bids for the above Procurement Project. Delivery of the Services is required by Ninety (90) calendar days upon receipt of Notice to Proceed. Bidders should have completed, within two (2) years 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.

3. Bidding will be conducted through open competitive bidding procedures using the non-discretionary pass/fail

criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

4. Prospective bidders may obtain further information from CARLOS HILADO MEMORIAL STATE UNIVERSITY and inspect the Bidding Documents at the address given below during 8:00 A.M. to 5:00 P.M.

The BAC Secretariat  
Brgy. Zone I, Mabini St.,  
Talisay City, Negros Occidental

5. A complete set of Bidding Documents may be acquired by interested Bidders on January 23 – February 19, 2026 (9:00A.M.) from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Five Thousand Pesos (Php 5,000.00) Only. The Procuring Entity shall allow the bidder to present its proof of payment for the fees.

6. The CHMSU will hold a Pre-Bid conference on 09:30 A.M., January 30, 2026 at Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental and or through video conferencing or webcasting via Zoom Meeting with ID No. 540 036 7488, Meeting Password 013026, which shall be open to prospective bidders.

7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental, (ii) online or electronic submission at bac.sec@chmsu.edu.ph or (iii) both on or before 9:00 A.M., February 19, 2026. Late bids shall not be accepted.

Bids may be submitted through electronic mail to bac.sec@chmsu.edu.ph provided that the bidding documents are compressed into two (2) separate archived folders (zip or rar format) and which each folder shall be labelled as "First Envelope\_Name of Company\_Project Reference Number" and "Second Envelope\_Name of Company\_Project Reference Number" and each is uniquely password-protected;

Bidders must submit the printed copies (Original, Copy 1 and Copy 2) of their bidding documents within 3 calendar days from bid opening.

8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.

9. Bid opening shall be on 9:30 A.M., February 19, 2026, at the Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental through Zoom Meeting ID No. 540 036 7488, Meeting Password 021926. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

10. The Carlos Hilado Memorial State University reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA 9184, without thereby incurring any liability to the affected bidder or bidders.

11. For further information, please refer to:

MISS LIGAYA E. FUENTES, Ph.D.  
Head, BAC Secretariat  
Carlos Hilado Memorial State University  
Bidding Room, 2/F Supply and Property Management Bldg.  
Brgy. Zone 1, Mabini St.,  
Talisay City, Negros Occidental  
Email Add.: bac.sec@chmsu.edu.ph  
Telephone Nos.: (034) 454-0529; 454-0584 local 142  
Mobile No.: 0920-5833046  
Website: chmsu.edu.ph

12. You may visit the following websites:

For downloading of Bidding Documents: chmsu.edu.ph

For online bid submission: bac.sec@chmsu.edu.ph

MA. RIZA T. MANALO, Ph.D.  
BAC Chairperson

#### Line Items

Item No.	Product/Service Name	Description	Quantity	UOM	Budget (PHP)
1	ONE (1) LOT	Smart Classroom Equipment	1	Lot	5,000,000.00

#### Pre-bid Conference

Date	Time	Venue
30/01/2026	9:30:00 AM	Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini

St., Talisay City, Negros Occidental and or  
through video conferencing or webcasting  
via Zoom Meeting with ID No. 540 036  
7488, Meeting Password 013026

**Created by** Rowena De la Vida Prado

**Date Created** 21/01/2026

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## Bids and Awards Committee

### INVITATION TO BID FOR THE PROCUREMENT OF TURNKEY PROJECT ON DIGITAL EDUCATIONAL SPACES: ENHANCING ACADEMIC DELIVERY ACROSS CHMSU CAMPUSES CHMSU 26-007-0122-G



1. Carlos Hilado Memorial State University, through the Corporate Budget for the Contract of 2026 approved by the governing Board (STF/CO), intends to apply the sum of **FIVE MILLION PESOS (Php 5,000,000.00)**, being the Approved Budget for the Contract (ABC) to payments under the contract for the **FOR THE PROCUREMENT OF TURNKEY PROJECT ON DIGITAL EDUCATIONAL SPACES: ENHANCING ACADEMIC DELIVERY ACROSS CHMSU CAMPUSES**. Bids received in excess of the ABC shall be automatically rejected at bid opening.

#### SMART CLASSROOM EQUIPMENT

Php 5,000,000.00

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2. Carlos Hilado Memorial State University now invites bids for the above Procurement Project. Delivery of the Services is required by **Ninety (90) calendar days upon receipt of Notice to Proceed**. Bidders should have completed, within two (2) years 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.

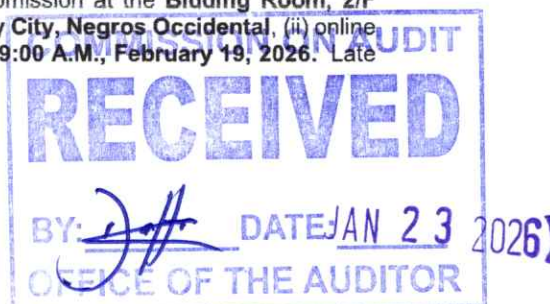
3. Bidding will be conducted through open competitive bidding procedures using the non-discretionary *pass/fail* criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act 9184.

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# Carlos Hilado Memorial State University

Alijis Campus • Binalbagan Campus • Fortune Towne Campus • Talisay (Main) Campus

*A leading GREEN institution of higher learning in the global community by 2030*

## Bids and Awards Committee

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11. For further information, please refer to:

**LIGAYA E. FUENTES, Ph.D.**

Head, BAC Secretariat  
Carlos Hilado Memorial State University  
Bidding Room, 2/F Supply and Property Management Bldg.  
Brgy. Zone 1, Mabini St.,  
Talisay City, Negros Occidental  
Email Add.: [bac.sec@chmsu.edu.ph](mailto:bac.sec@chmsu.edu.ph)  
Telephone Nos.: (034) 454-0529; 454-0584 local 142  
Mobile No.: 0920-5833046  
Website: [chmsu.edu.ph](http://chmsu.edu.ph)



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For online bid submission: [bac.sec@chmsu.edu.ph](mailto:bac.sec@chmsu.edu.ph)

**MA. RIZA T. MANALO, Ph.D.**  
BAC Chairperson



 [bac.sec@chmsc.edu.ph](mailto:bac.sec@chmsc.edu.ph)  
 (034) 712 0005 local 142  
 [chmsc.edu.ph](http://chmsc.edu.ph)

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## ***Section II. Instructions to Bidders***

### **Notes on the Instructions to Bidders**

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.



## **1. Scope of Bid**

The Procuring Entity, CARLOS HILADO MEMORIAL STATE UNIVERSITY wishes to receive Bids for the **PROCUREMENT OF TURNKEY PROJECT ON DIGITAL EDUCATIONAL SPACES: ENHANCING ACADEMIC DELIVERY ACROSS CHMSU CAMPUSES** with identification number **CHMSU 26-007-0121-G**.

The Procurement Project (referred to herein as "Project") is composed of **One (1) Lot**, the details of which are described in Section VII (Technical Specifications).

## **2. Funding Information**

2.1. The GOP through the source of funding as indicated below for 2026 in the amount of **FIVE MILLION PESOS (Php 5,000,000.00) ONLY**.

2.2. The source of funding is:

NGA, the General Appropriations Act or Special Appropriations.

## **3. Bidding Requirements**

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or IB by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

## **4. Corrupt, Fraudulent, Collusive, and Coercive Practices**

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "T" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

## **5. Eligible Bidders**

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. Foreign ownership exceeding those allowed under the rules may participate pursuant to:
  - i. When a Treaty or International or Executive Agreement as provided in Section 4 of the RA No. 9184 and its 2016 revised IRR allow foreign bidders to participate;
  - ii. Citizens, corporations, or associations of a country, included in the list issued by the GPPB, the laws or regulations of which grant reciprocal rights or privileges to citizens, corporations, or associations of the Philippines;
  - iii. When the Goods sought to be procured are not available from local suppliers; or
  - iv. When there is a need to prevent situations that defeat competition or restrain trade.
- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to:
  - a. For the procurement of Non-expendable Supplies and Services: The Bidder must have completed a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

## **6. Origin of Goods**

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under **ITB** Clause 18.

## **7. Subcontracts**

The Procuring Entity has prescribed that:

Subcontracting is not allowed.



## **8. Pre-Bid Conference**

The Procuring Entity will hold a **Pre-Bid Conference** for this Project on **January 29, 2026, 09:30 A.M.** at the Bidding Rm., 2/F Supply and Property Management Bldg., CHMSU Talisay Campus and or through video conferencing or webcasting via **Zoom Meeting with ID No. 540 036 7488, Meeting Password 012926**, which shall be open to prospective bidders.

## **9. Clarification and Amendment of Bidding Documents**

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

## **10. Documents comprising the Bid: Eligibility and Technical Components**

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 10.2. The Bidder's SLCC as indicated in **ITB Clause 5.3** should have been completed within two (2) years prior to the deadline for the submission and receipt of bids.
- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

## **11. Documents comprising the Bid: Financial Component**

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.
- 11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.

- 11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.
- 11.5. Financial proposals for single or multi-year Framework Agreement shall be submitted before the deadline of submission of bids as prescribed in the **IB**. For multi-year Framework Agreement, evaluation of the financial proposal during this stage is for purposes of determining eligibility and whether or not such financial proposal is within the ABC.

## **12. Bid Prices**

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:
  - a. For Goods offered from within the Procuring Entity's country:
    - i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
    - ii. The cost of all customs duties and sales and other taxes already paid or payable;
    - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
    - iv. The price of other (incidental) services, if any, listed in e.
  - b. For Goods offered from abroad:
    - i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
    - ii. The price of other (incidental) services, if any, as listed in **Section VII (Technical Specifications)**.

## **13. Bid and Payment Currencies**

- 13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based

on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

13.2. Payment of the contract price shall be made in:

a. Philippine Pesos.

#### **14. Bid Security**

14.1. The Bidder shall submit a Bid Securing Declaration<sup>1</sup> or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the **ABC** in accordance with the schedule in the **BDS**.

14.2. The Bid and bid security shall be valid until **June 12, 2026**. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

#### **15. Sealing and Marking of Bids**

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

#### **16. Deadline for Submission of Bids**

16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

#### **17. Opening and Preliminary Examination of Bids**

17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

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<sup>1</sup> In the case of Framework Agreement, the undertaking shall refer to entering into contract with the Procuring Entity and furnishing of the performance security or the performance securing declaration within ten (10) calendar days from receipt of Notice to Execute Framework Agreement.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

- 17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

## **18. Domestic Preference**

- 18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

## **19. Detailed Evaluation and Comparison of Bids**

- 19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by ITB Clause 15 shall be submitted for each lot or item separately.
- 19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as follows:

One Project having several items grouped into several lots, which shall be awarded as separate contracts per lot.
- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.



## **20. Post-Qualification**

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid. The Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

## **21. Signing of the Contract**

- 21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

## ***Section III. Bid Data Sheet***

### **Notes on the Bid Data Sheet**

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the ITB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the ITB as necessitated by the circumstances of the specific procurement, must also be incorporated.

## Bid Data Sheet

ITB Clause	
5.3	<p>For this purpose, contracts similar to the Project shall be:</p> <p>a. <b>PROCUREMENT OF TURNKEY PROJECT ON DIGITAL EDUCATIONAL SPACES: ENHANCING ACADEMIC DELIVERY ACROSS CHMSU CAMPUSES</b></p> <p>b. completed within two (2) years prior to the deadline for the submission and receipt of bids.</p>
7.1	Subcontracting is not allowed.
12	The price of the Goods shall be quoted DDP or the applicable International Commercial Terms (INCOTERMS) for this Project.
14.1	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <p>a. The amount of not less than <i>two percent (2%) of ABC or Php 100,000.00</i>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or</p> <p>b. The amount of not less than <i>five percent (5%) of ABC or Php 250,000.00</i>, if bid security is in Surety Bond.</p>
19.3	1 LOT      SMART CLASSROOM EQUIPMENT      Php 5,000,000.00
20.2	Latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS).
21.2	No further instructions.

## ***Section IV. General Conditions of Contract***

### **Notes on the General Conditions of Contract**

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Supplier, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract.



## **1. Scope of Contract**

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract (SCC)**.

## **2. Advance Payment and Terms of Payment**

- 2.1. Advance payment of the contract amount is provided under Annex "D" of the revised 2016 IRR of RA No. 9184.
- 2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the SCC.

## **3. Performance Security**

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184.

## **4. Inspection and Tests**

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the SCC, **Section IV (Technical Specifications)** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

## **5. Warranty**

- 6.1. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.
- 6.2. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

## **6. Liability of the Supplier**

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

## ***Section V. Special Conditions of Contract***

### **Notes on the Special Conditions of Contract**

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Goods purchased. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

## Special Conditions of Contract

GCC Clause	
1	<p><b>Delivery and Documents –</b></p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p><i>[For Goods supplied from abroad, state:]</i> “The delivery terms applicable to the Contract are DDP delivered to Carlos Hilado Memorial State University – Talisay Campus, Bacolod City, Negros Occidental in accordance with INCOTERMS.”</p> <p><i>[For Goods supplied from within the Philippines, state:]</i> “The delivery terms applicable to this Contract are delivered Carlos Hilado Memorial State University – Talisay Campus, Bacolod City, Negros Occidental. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.”</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site is Mr. Leonard A. Guilaran, CPA, MBA, Supply Officer.</p> <p><b>Incidental Services –</b></p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ol style="list-style-type: none"> <li>a. performance or supervision of on-site assembly and/or start-up of the supplied Goods;</li> <li>b. furnishing of tools required for assembly and/or maintenance of the supplied Goods;</li> <li>c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;</li> <li>d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and</li> </ol>



- e. training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

**Spare Parts –**

The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- a. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and
- b. in the event of termination of production of the spare parts:
  - i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and
  - ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.

The spare parts and other components required are listed in **Section VI (Schedule of Requirements)** and the cost thereof are included in the contract price.

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of one (1) year.

Spare parts or components shall be supplied as promptly as possible, but in any case, within fifteen (15) days of placing the order.

	<p><b>Packaging –</b></p> <p>The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods’ final destination and the absence of heavy handling facilities at all points in transit.</p> <p>The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.</p> <p>The outer packaging must be clearly marked on at least four (4) sides as follows:</p> <p>Name of the Procuring Entity  Name of the Supplier  Contract Description  Final Destination  Gross weight  Any special lifting instructions  Any special handling instructions  Any relevant HAZCHEM classifications</p>
	<p>A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.</p> <p><b>Transportation –</b></p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.</p> <p>Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.</p>

	<p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p> <p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p> <p><b>Intellectual Property Rights –</b></p> <p>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</p>
2.2	<p>The terms of payment shall be as follows:</p> <p>The terms of payment : 30 days</p>
4	<p>The inspections and tests that will be conducted are:</p> <p>Inspection as to the Quality, Quantity, and Specifications of the items delivered.</p>

## Section VI. Schedules of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item #	Description	Quantity	Total	Delivered, Weeks/Months
	<b>ONE (1) LOT</b>			
	<b>Smart classroom equipment</b>			
	<b>Network video recorder - 4 units</b>			
	Three live view control views are provided: movie mode, picture-in-picture mode, and multi-screen mode			
	Auto live view control realizes automatic switch of teacher image, student image, and multimedia image, which helps to meet the demand of daily teaching requirement			
	ACC format audio encoding technology, up to 48 KHz audio input sampling rate, and internal sound mixing feature provide high audio quality			
	Specs:			
	5-ch IP Video Input			
	15.6" TFT LCD FHD (1920 × 1080)			
	Support touch screen			
	Video Compression H.265/H.264			
	Frame Rate 1 to 25 fps			
	Video Bitrate 32 Kbps to 16 Mbps			
	Interface 4-ch, RJ45 10M/100M self-adaptive Ethernet interface			
	1 SATA Interface, 2 × USB 2.0, 1 × USB 3.0			
	Power Supply 48 VDC, 2.5 A			
	Consumption ≤ 120 W (with HDD)			
	Working Temperature -10 °C to 45 °C (14 °F to 113 °F)			
	Working Humidity 10% to 90%			
	Dimension (W × D × H) 378 × 40 × 262 mm (14.8 × 1.6 × 10.3 Inch)			
	Weight ≤ 4.0 kg (≤ 8.8 pound)			
	Three live view control views are provided: movie mode, picture-in-picture mode, and multi-screen mode			
	Auto live view control realizes automatic switch of teacher image, student image, and multimedia image, which helps to meet the demand of daily teaching requirement			
	ACC format audio encoding technology, up to 48 KHz audio input sampling rate, and internal sound mixing feature provide high audio quality			
	Synchronously collect the teacher image, student image, and multimedia image via HDMI input			
	Real-time encoding for all cameras with up to 1080p resolution			
	Support setting different resolution, frame rate, and bitrate for three streams, including main stream, sub-stream, and third stream			
	Support searching, playback, and downloading courses by keywords			
	Support publishing courses to FTP server by pressing the publish button on front panel			
	Support manual live view control, RTMP live view, playback course, and configure course plan in remote client or platform			
	Support RTMP multimedia			
	<b>86" Interactive Flat Panel Displays - 4 units</b>			
	UHD 4K display with resolution of 3840 × 2160.			
	Anti-glare and anti-blocking design to ensure smooth interaction.			
	Backlight DLED			
	Pixel Pitch 0.1645 H × 0.4935 V mm			
	Resolution 3840 × 2160 @60 Hz; Brightness 400 cd/m <sup>2</sup>			
	Infrared Touch Screen			



Up to 50-point multi-touch			
Touch Response Time $\leq 2$ ms			
Operation System Android 13.0, Memory 8 GB			
Built-in Storage 128 GB			
Processor Quad-core Cortex-A76 $\times 4$ 2.4 GHz and quad-core Cortex-A55 $\times 4$ 1.8 GHz			
GPU Mali-G610 MC4			
Microphone Omni-directional 8-array layout, Echo reduction and smart noise-cancellation			
Voice Distance 12 meter			
Built-in BLE (Bluetooth Low Energy) module supports Bluetooth 5.1			
HDMI In (HDMI 2.0) $\times 3$ , VGA In $\times 1$ , DP In (DP 1.2) $\times 1$ , Audio In $\times 1$			
Power Backup & Protection Equipment:			
Line-Interactive UPS with Built-In AVR			
<b>86" Conference Flat Panel Mobile Brackets - 4 units</b>			
SPCC high quality steel plate			
Surface Treatment Sheet metal spraying			
Package Dimensions (W $\times$ H $\times$ D)			
1730 (W) mm $\times$ 800 (H) mm $\times$ 150 (D) mm			
(68 " $\times$ 31.5 " $\times$ 5.9 ")			
<b>Streaming Camera for Student - 4 units</b>			
High quality imaging with 8 MP resolution Efficient H.265+ compression technology to save bandwidth and storage			
Clear imaging against strong back light due to 120 dB true WDR technology 5 streams to meet a wide variety of applications Water and dust resistant (IP67) and vandal proof (IK10)			
Max. Resolution 3840 $\times$ 2160			
Shutter Time 1s to 1/100,000s			
Angle Adjustment Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°			
Focal Length & FOV			
2.8 to 12 mm, horizontal FOV: 112.3° to 41.2°, vertical FOV: 58° to 23.1°, diagonal FOV: 137.3° to 47.3°			
8 to 32 mm, horizontal FOV: 41.8° to 14.9°, vertical FOV: 22.92° to 8.48°, diagonal FOV: 48.7° to 17°			
Focus Auto, Semi-auto, Manual			
IR Wavelength 850 nm			
Video Bit Rate 32 Kbps to 16 Mbps			
Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB			
Deep Learning Function Supports simultaneous detection and capture of human body, face, and vehicle,			
Detects up to 120 faces simultaneously, captures up to 40 face pictures per frame.			
Supports Multi-Dimension People Counting			
<b>Streaming Camera for Teacher - 4 units</b>			
4K deepinview indoor moto varifocal dome camera			
High quality imaging with 8 MP resolution			
Excellent low-light performance via DarkFighter technology			
Efficient H.265+ compression technology to save bandwidth and storage			
Clear imaging against strong back light due to 120 dB true WDR technology			
5 streams to meet a wide variety of applications			
Teacher behavior detection; blackboard writing detection			
Max. Resolution 3840 $\times$ 2160			
Shutter Time 1 s to 1/100,000 s			
Angle Adjustment Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°			
Focal Length & FOV 2.8 to 12 mm, horizontal			
FOV: 112.3° to 41.2°, vertical FOV: 58° to 23.1°, diagonal			
FOV: 137.3° to 47.3°			
8 to 32 mm, horizontal FOV: 41.8° to 14.9°, vertical FOV: 22.92° to 8.48°, diagonal FOV: 48.7° to 17°			

Focus Auto,Semi-auto,Manual			
IR Wavelength 850 nm			
Video Bit Rate 32 Kbps to 16 Mbps			
Built-in memory card slot, support			
microSD/microSDHC/microSDXC card, up to 1 TB			
Deep Learning Function Supports simultaneous detection			
and capture of human body, face, and vehicle, Detects up			
to 120 faces simultaneously, captures up to 40 face			
pictures per frame.			
Supports Multi-Dimension People Counting			
<b>In-Ceiling Mount for Dome Camera - 8 units</b>			
Steel and Plastic			
White			
<b>Conferencing Ceiling Microphone - 4 units</b>			
Adopts multi-mic array, picking up sounds in the radius up			
to 10 meters			
The built-in digital circuit is embedded with DSP			
processing unit and AGC technology to realize clear sound			
with high fidelity			
With multi-mic array design and self-adaptive			
beamforming technology, the microphone reduces			
reverberation effectively			
Supports accessing echo reference signal via line in			
interface, and with AEC algorithm, the microphone			
suppresses echo and squeal effectively			
Supports smart noise reduction, avoiding environmental			
noise			
The indicator is convenient for troubleshooting			
Supports network settings and transmitting the audio			
stream to network camera and DVR/NVR			
Supports 32 kHz audio sampling rate for HD sound			
Power over ethernet, convenient for installation			
SNR 90 dB			
Power 9 VDC~30 VDC, PoE, 2.4 W Max			
Material Plastic			
Dimension Ø250 mm × 34.5 mm (Ø9.84" × 1.36")			
Weight Approx. 740 g (1.63 lb.)			
Direction Omnidirectional			
Audio Transmission Distance ≥3000 m			
Noise Reduction Adjustment digital noise reduction			
Audio Sampling Rate 16 kHz, 32 kHz			
<b>Network Speakers system - 4 units</b>			
2 speakers set per classroom			
Rated Power 10 W each			
Impedance 8 Ω			
Max. Acoustic Pressure 98 dB SPL			
Sensitivity(1 m, 1 W) 90 dB			
Frequency Response 100 Hz to 20 kHz			
Ethernet Interface RJ45 10 M/100 M Adaptive Ethernet			
port × 1			
Audio In 3.5 mm audio interface × 1			
Power 24 VDC/1.5 A			
Operating Temperature -10 °C to 50 °C(14 °F to 122 °F)			
Dimension 180.6 mm × 156 mm × 280mm (7.11" × 6.14"			
× 11.02")			
Built-in 4 GB EMMC (Audio file storage is 1 GB.)			
<b>Surveillance-optimized hard drive - 4 units</b>			
4TB / 64MB (6Gb/s NCQ) / 5900RPM / SATA3 Hard Disk			
<b>8 Port Gigabit Smart Switch - 4 units</b>			
8 × Gigabit PoE port,2 × Gigabit RJ45 port			
Total PoE Power Budget 60W			
Support 802.1Q VLAN			
Support PoE watchdog to detect and restart the cameras			
that do not respond			

	Support STP/RSTP Loop prevention			
	Support cable detection to locate failure			
	Up to 300 m Long Range PoE Transmission			
	6KV Surge Protection			
	L2, Smart Managed, 8 Gigabit RJ45 ports, Visualized			
	Topology Management, Network Health Monitor, Real-			
	Time Alarm Push and Video Control and Preview			
	<b>16-Port Gigabit Smart POE+ Switch - 1 unit</b>			
	16 x gigabit PoE RJ45 ports, 1 x gigabit RJ45 port, 1 x			
	gigabit fiber optical port			
	Total PoE power budget 130 W			
	Unified cloud management for security systems			
	Network topology at your fingertips			
	Remote troubleshooting			
	Visualized topology management			
	Up to 300 m long-range PoE transmission			
	6 kV surge protection			
	<b>Mobile Podium - 4 units</b>			
	Height Adjustable			
	Number of Wheels: 4			
	Material: Carbon Steel Pipe, MDF, Hardware			
	Net Weight: 9kg/ 19.8lbs			
	Gross Weight: 10kg/ 22.05lbs			
	Desktop Board Weight Capacity: 15kg/ 33.1lbs			
	Small Board Weight Capacity: 20kg/ 44 lbs			
	<b>Remote Share Tool - 4 units</b>			
	Central Enterprise – Classin Remote Sharing and Training			
	Solution			
	Software Training Solution, remote training solution			
	expands the online training scene to better meet the needs			
	of users.			
	Full compatibility with mainstream conference software			
	like Zoom, Webex, Google Meet, Microsoft Teams,			
	Facebook, Youtube			
	Immersive training experience – High-definition close-up			
	and panorama of the training site are brought to the			
	remote students, with automatic character tracking and			
	automatic switch between close-up and panorama, which			
	greatly improves the training effect compared with the			
	traditional single teacher's profile picture.			
	Simple operation – One click before training, complete all			
	configuration operations within 30 seconds, improving			
	ease of use.			
	A lightweight PC tool for streaming conversions with a			
	simple configuration in 3 steps:			
	• Add devices through IP connection			
	• Enable sharing by activating the connection			
	• Flexible views from device based on intelligent			
	algorithms include teacher panoramic, close-ups, and			
	blackboard writing views.			
	<b>Rooms Acoustics - 4 sets</b>			
	16 units per set – room acoustic panels			
	NRC (Noise Reduction Coefficient) ≥ 0.7			
	Reverberation Time 0.4 – 0.6 seconds			
	STC (Sound Transmission Class) 40 – 45 dB			
	Noise Criteria (NC) ≤ 35			
	Panel Thickness 1" – 2"			
	Panel Size 2' x 4' to 4' x 8'			
	Material Mineral wool, fiberglass, or acoustic foam			
	Fire Resistance Required			
	Placement Walls (ear level), ceilings, doors			
	Aesthetic Options			
	Fabric/foam finishes, color choices			

<b>Desktop Digital Podium - 2 units</b>			
Desktop Digital Podium			
A desktop all-in-one smart podium designed to convert existing lecterns into smart podiums for classrooms, lecture halls, or conference rooms. The podium provides advanced annotation, device control, and AV broadcasting capabilities to enhance teaching and presentation experiences.			
Technical Specifications:			
Display & Input:			
Dual screens with optical bonding technology for annotation and device control			
23.8-inch main writing/annotation area			
Capacitive and electromagnetic dual touch support (finger and pen)			
Active capacitive stylus pen with 4096 pressure levels, pen tip annotation, pen tail eraser, Microsoft Pen Protocol and Windows Ink support, TYPE-C charging, and aluminum alloy body			
Screen Adjustment:			
Adjustable screen angle from 30° to 60° for ergonomic use (sitting or standing)			
Power Backup & Protection Equipment:			
Line-Interactive UPS with Built-in AVR			
AV & Connectivity:			
Built-in 3x2 AV matrix switch for flexible input/output switching and content display across multiple screens			
Supports both identical and different content presentations on multiple screens			
Device Control:			
Unified control of classroom devices (lights, interactive flat panels, projectors, air conditioners, electric curtains, etc.)			
Local control via touch panel and remote control via web console or mobile app (network-based)			
Audio:			
Integrated wireless microphone system and sound amplification for voice reinforcement			
Broadcasting & Streaming:			
Supports campus-wide AV broadcasting and live streaming over the network			
Capable of receiving real-time or scheduled content for announcements or educational sharing			
Computer Integration:			
Built-in high-end computer to eliminate the need for external PCs or laptops			
Construction:			
Desktop design to be placed on top of existing lectern			
Durable aluminum alloy integrated structure for longevity			
Specifications:			
Panel Type: IPS (TFT-LCD)			
Effective Screen Size: 23.8 inch			
Resolution: 1920(H) x 1080 (V)			
Colors: 16.7M			
Brightness: 300 cd/m2			
Contrast Ratio: 1000:1			
Surface: 3mm Hardened Anti-Reflection Safety Glass (7H); AG+AF, Optical Bonding technology			
Viewing Angles: 178° (H), 178° (V)			
Touch: Capacitive, 10-point multi-touch, 4096 x 4096 resolution, Windows 7/8/10/11 compatible			
Handwriting: Active capacitive pen, 4096 pressure levels, ±0.25mm accuracy, < 5mm detection height, Windows Ink, Windows 7/8/10/11 compatible			
Control Panel: 10.1-inch Touch Control Panel for accessing NDP500 functions, RAM: 2GB, ROM: 16GB, CPU: Quad-core, 1.6GHz, NFC: Supported			
Specifications:			
Panel Type: IPS (TFT-LCD)			
Effective Screen Size: 23.8 inch			

Resolution: 1920(H) x 1080 (V)			
Colors: 16.7M			
Brightness: 300 cd/m2			
Contrast Ratio: 1000:1			
Surface: 3mm Hardened Anti-Reflection Safety Glass (7H);			
AG+AF, Optical Bonding technology			
Viewing Angles: 178° (H), 178° (V)			
Touch: Capacitive, 10-point multi-touch, 4096 x 4096			
resolution, Windows 7/8/10/11 compatible			
Handwriting: Active capacitive pen, 4096 pressure levels,			
±0.25mm accuracy, < 5mm detection height, Windows Ink,			
Windows 7/8/10/11 compatible			
Control Panel: 10.1-Inch Touch Control Panel for accessing			
NDP500 functions, RAM: 2GB, ROM: 16GB, CPU: Quad-			
core, 1.6GHz, NFC: Supported			
<b>Technical Specifications</b>			
All equipment must meet or exceed the technical			
features, capacities, and standards detailed			
in the attached Bill of Quantity			
Equipment must support seamless integration			
across AV, networking, audio, and control platforms.			
Cabling, mounting, connectors, and software			
necessary for complete installation must be included			
All classroom solutions must be upgradable and			
standards-compliant (local, national, and international			
ICT and educational standards).			
All documentation, including approved wiring and			
interconnection plan and diagram, users manual,			
and installation guide.			
<b>Detailed Deliverables</b>			
Fully functional smart classrooms with all equipment			
installed, tested, and integrated			
Configuration and interconnection of all devices to			
the university LAN and AV/IT control systems			
Approved wiring and interconnection plan and			
diagram, user manual, per installation guide per			
classroom and system			
Site visit certification			
Three (3) years minimum full on-site equipment			
warranty and support for major items;			
one (1) year for accessories			
Training programs:			
Technical/ICT team on O&M (Operations &			
Maintenance), troubleshooting, and device management			
Faculty users training on daily usage,			
Interactive teaching, troubleshooting and platform			
Integration			
Submission of test, calibration, and commissioning			
reports			
<b>Implementation Timeline</b>			
All deliveries and installations must be completed			
within 90 calendar days from Notice to Proceed			
, unless otherwise specified			
Support must be provided for system acceptance,			
testing, and handover			
<b>Supplier Qualification</b>			
Demonstrated experience with at least one similar			
smart classroom projects in educational			
settings within the last three years			
Submission of valid business permits, warranties,			
manufacturer certifications, and relevant training			
capabilities			
Supplier must provide a named project team,			

with CVs of at least one senior technical lead,			
Installer, and training specialist			
Service Provider Certificate from the Manufacturer			
Certified Project Manager to handle the overall			
implementation			
Certified Project Engineer to handle day-to-day			
implementation			
Quality Assurance to ensure compliance with			
RA9292 standards			
The vendor should have a local dispatch team for			
on-site repairs & support 24/7			
Vendor should have Helpdesk Ticketing with			
24/7 online support			
Authorized local service centers in any of the following			
areas: Negros, Iloilo, or Cebu.			
-x-x-x-x-x-x-x-x-x-x-nothing follows-x-x-x-x-x-x-x-x-x-x-			
<b>TOTAL ABC = Php 5,000,000.00</b>			
PR # 26-015-0116 01-16-26			
Income 007-164-26-01 01-16-26/R. Dela Torre (CO)			
<b>Note: All items should be delivered within Ninety (90) calendar days</b>			
<b>upon receipt of notice to proceed.</b>			

## Section VII. Technical Specifications

Item	Specification	Statement of Compliance
		Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.1(a.2) and/or GCC Clause 2.1(a.2).
	<b>ONE (1) LOT</b>	
	<b>Smart classroom equipment</b>	
	<b>Network video recorder - 4 units</b>	
	Three live view control views are provided: movie mode, picture-in-picture mode, and multi-screen mode	
	Auto live view control realizes automatic switch of teacher image, student image, and multimedia image, which helps	
	to meet the demand of daily teaching requirement	
	ACC format audio encoding technology, up to 48 KHz audio input sampling rate, and internal sound mixing feature	
	provide high audio quality	
	Specs:	
	5-ch IP Video Input	
	15.6" TFT LCD FHD (1920 × 1080)	
	Support touch screen	
	Video Compression H.265/H.264	
	Frame Rate 1 to 25 fps	
	Video Bitrate 32 Kbps to 16 Mbps	
	Interface 4-ch, RJ45 10M/100M self-adaptive Ethernet interface	
	1 SATA interface, 2 × USB 2.0, 1 × USB 3.0	
	Power Supply 48 VDC, 2.5 A	
	Consumption ≤ 120 W (with HDD)	
	Working Temperature -10 °C to 45 °C (14 °F to 113 °F)	
	Working Humidity 10% to 90%	
	Dimension (W × D × H) 378 × 40 × 262 mm (14.8 × 1.6 × 10.3 inch)	
	Weight ≤ 4.0 kg (≤ 8.8 pound)	
	Three live view control views are provided: movie mode, picture-in-picture mode, and multi-screen mode	
	Auto live view control realizes automatic switch of teacher image, student image, and multimedia image, which helps	
	to meet the demand of daily teaching requirement	

ACC format audio encoding technology, up to 48 KHz audio input sampling rate, and internal sound mixing feature	
provide high audio quality	
Synchronously collect the teacher image, student image, and multimedia image via HDMI input	
Real-time encoding for all cameras with up to 1080p resolution	
Support setting different resolution, frame rate, and bitrate for three streams, including main stream, sub-stream, and third stream	
Support searching, playback, and downloading courses by keywords	
Support publishing courses to FTP server by pressing the publish button on front panel	
Support manual live view control, RTMP live view, playback course, and configure course plan in remote client or platform	
Support RTMP multimedia	
<b>86" Interactive Flat Panel Displays - 4 units</b>	
UHD 4K display with resolution of 3840 × 2160.	
Anti-glare and anti-blocking design to ensure smooth interaction.	
Backlight DLED	
Pixel Pitch 0.1645 H × 0.4935 V mm	
Resolution 3840 × 2160 @60 Hz; Brightness 400 cd/m <sup>2</sup>	
Infrared Touch Screen	
Up to 50-point multi-touch	
Touch Response Time ≤ 2 ms	
Operation System Android 13.0, Memory 8 GB	
Built-In Storage 128 GB	
Processor Quad-core Cortex-A76 × 4 2.4 GHz and quad-core Cortex-A55 × 4 1.8 GHz	
GPU Mali-G610 MC4	
Microphone Omni-directional 8-array layout, Echo reduction and smart noise-cancellation	
Voice Distance 12 meter	
Built-in BLE (Bluetooth Low Energy) module supports Bluetooth 5.1	
HDMI In (HDMI 2.0) × 3, VGA In × 1, DP In (DP 1.2) × 1, Audio In × 1	
Power Backup & Protection Equipment:	
Line-Interactive UPS with Built-in AVR	
<b>86" Conference Flat Panel Mobile Brackets - 4 units</b>	
SPCC high quality steel plate	
Surface Treatment Sheet metal spraying	
Package Dimensions (W × H × D)	
1730 (W) mm × 800 (H) mm × 150 (D) mm	
(68 " × 31.5 " × 5.9 ")	
<b>Streaming Camera for Student - 4 units</b>	
High quality imaging with 8 MP resolution Efficient H.265+ compression technology to save bandwidth and storage	
Clear Imaging against strong back light due to 120 dB true WDR technology 5 streams to meet a wide variety of applications Water and dust resistant (IP67) and vandal proof (IK10)	
Max. Resolution 3840 × 2160	
Shutter Time 1s to 1/100,000s	
Angle Adjustment Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°	
Focal Length & FOV	
2.8 to 12 mm, horizontal FOV: 112.3° to 41.2°, vertical FOV: 58° to 23.1°, diagonal FOV: 137.3° to 47.3°	
8 to 32 mm, horizontal FOV: 41.8° to 14.9°, vertical FOV: 22.92° to 8.48°, diagonal FOV: 48.7° to 17°	
Focus Auto, Semi-auto, Manual	
IR Wavelength 850 nm	
Video Bit Rate 32 Kbps to 16 Mbps	



	Built-in memory card slot, support	
	microSD/microSDHC/microSDXC card, up to 1 TB	
	Deep Learning Function Supports simultaneous detection	
	and capture of human body, face, and vehicle,	
	Detects up to 120 faces simultaneously, captures up to 40	
	face pictures per frame.	
	Supports Multi-Dimension People Counting	
	<b>Streaming Camera for Teacher - 4 units</b>	
	4K deepinview indoor moto varifocal dome camera	
	High quality imaging with 8 MP resolution	
	Excellent low-light performance via DarkFighter technology	
	Efficient H.265+ compression technology to save	
	bandwidth and storage	
	Clear Imaging against strong back light due to 120 dB true	
	WDR technology	
	5 streams to meet a wide variety of applications	
	Teacher behavior detection; blackboard writing detection	
	Max. Resolution 3840 × 2160	
	Shutter Time 1 s to 1/100,000 s	
	Angle Adjustment Pan: 0° to 355°, tilt: 0° to 75°, rotate:	
	0° to 355°	
	Focal Length & FOV 2.8 to 12 mm, horizontal	
	FOV: 112.3° to 41.2°, vertical FOV: 58° to 23.1°, diagonal	
	FOV: 137.3° to 47.3°	
	8 to 32 mm, horizontal FOV: 41.8° to 14.9°, vertical FOV:	
	22.92° to 8.48°, diagonal FOV: 48.7° to 17°	
	Focus Auto, Semi-auto, Manual	
	IR Wavelength 850 nm	
	Video Bit Rate 32 Kbps to 16 Mbps	
	Built-in memory card slot, support	
	microSD/microSDHC/microSDXC card, up to 1 TB	
	Deep Learning Function Supports simultaneous detection	
	and capture of human body, face, and vehicle, Detects up	
	to 120 faces simultaneously, captures up to 40 face	
	pictures per frame.	
	Supports Multi-Dimension People Counting	
	<b>In-Ceiling Mount for Dome Camera - 8 units</b>	
	Steel and Plastic	
	White	
	<b>Conferencing Ceiling Microphone - 4 units</b>	
	Adopts multi-mic array, picking up sounds in the radius up	
	to 10 meters	
	The built-in digital circuit is embedded with DSP	
	processing unit and AGC technology to realize clear sound	
	with high fidelity	
	With multi-mic array design and self-adaptive	
	beamforming technology, the microphone reduces	
	reverberation effectively	
	Supports accessing echo reference signal via line in	
	interface, and with AEC algorithm, the microphone	
	suppresses echo and squeal effectively	
	Supports smart noise reduction, avoiding environmental	
	noise	
	The indicator is convenient for troubleshooting	
	Supports network settings and transmitting the audio	
	stream to network camera and DVR/NVR	
	Supports 32 kHz audio sampling rate for HD sound	
	Power over ethernet, convenient for installation	
	SNR 90 dB	
	Power 9 VDC~30 VDC, PoE, 2.4 W Max	
	Material Plastic	
	Dimension Ø250 mm × 34.5 mm (Ø9.84" × 1.36")	
	Weight Approx. 740 g (1.63 lb.)	
	Direction Omnidirectional	
	Audio Transmission Distance ≥3000 m	

Noise Reduction Adjustment	digital noise reduction
Audio Sampling Rate	16 kHz, 32 kHz
<b>Network Speakers system - 4 units</b>	
2 speakers set per classroom	
Rated Power 10 W each	
Impedance 8 $\Omega$	
Max. Acoustic Pressure 98 dB SPL	
Sensitivity(1 m, 1 W) 90 dB	
Frequency Response 100 Hz to 20 kHz	
Ethernet Interface RJ45 10 M/100 M Adaptive Ethernet	
port $\times$ 1	
Audio In 3.5 mm audio interface $\times$ 1	
Power 24 VDC/1.5 A	
Operating Temperature -10 $^{\circ}$ C to 50 $^{\circ}$ C(14 $^{\circ}$ F to 122 $^{\circ}$ F)	
Dimension 180.6 mm $\times$ 156 mm $\times$ 280mm (7.11" $\times$ 6.14"	
$\times$ 11.02")	
Built-in 4 GB EMMC (Audio file storage is 1 GB.)	
<b>Surveillance-optimized hard drive - 4 units</b>	
4TB / 64MB (6Gb/s NCQ) / 5900RPM / SATA3 Hard Disk	
<b>8 Port Gigabit Smart Switch - 4 units</b>	
8 $\times$ Gigabit PoE port, 2 $\times$ Gigabit RJ45 port	
Total PoE Power Budget 60W	
Support 802.1Q VLAN	
Support PoE watchdog to detect and restart the cameras	
that do not respond	
Support STP/RSTP Loop prevention	
Support cable detection to locate failure	
Up to 300 m Long Range PoE Transmission	
6KV Surge Protection	
12, Smart Managed, 8 Gigabit RJ45 ports, Visualized	
Topology Management, Network Health Monitor, Real-	
Time Alarm Push and Video Control and Preview	
<b>16-Port Gigabit Smart POE+ Switch - 1 unit</b>	
16 $\times$ gigabit PoE RJ45 ports, 1 $\times$ gigabit RJ45 port, 1 $\times$	
gigabit fiber optical port	
Total PoE power budget 130 W	
Unified cloud management for security systems	
Network topology at your fingertips	
Remote troubleshooting	
Visualized topology management	
Up to 300 m long-range PoE transmission	
6 kV surge protection	
<b>Mobile Podium - 4 units</b>	
Height Adjustable	
Number of Wheels: 4	
Material: Carbon Steel Pipe, MDF, Hardware	
Net Weight: 9kg/ 19.8lbs	
Gross Weight: 10kg/ 22.05lbs	
Desktop Board Weight Capacity: 15kg/ 33.1lbs	
Small Board Weight Capacity: 20kg/ 44 lbs	
<b>Remote Share Tool - 4 units</b>	
Central Enterprise -- Classin Remote Sharing and Training	
Solution	
Software Training Solution, remote training solution	
expands the online training scene to better meet the needs	
of users.	
Full compatibility with mainstream conference software	
like Zoom, Webex, Google Meet, Microsoft Teams,	
Facebook, Youtube	
Immersive training experience -- High-definition close-up	
and panorama of the training site are brought to the	
remote students, with automatic character tracking and	
automatic switch between close-up and panorama, which	

greatly improves the training effect compared with the traditional single teacher's profile picture.	
Simple operation – One click before training, complete all configuration operations within 30 seconds, improving ease of use.	
A lightweight PC tool for streaming conversions with a simple configuration in 3 steps:	
• Add devices through IP connection	
• Enable sharing by activating the connection	
• Flexible views from device based on intelligent algorithms include teacher panoramic, close-ups, and blackboard writing views.	
<b>Rooms Acoustics - 4 sets</b>	
16 units per set – room acoustic panels	
NRC (Noise Reduction Coefficient) $\geq 0.7$	
Reverberation Time 0.4 – 0.6 seconds	
STC (Sound Transmission Class) 40 – 45 dB	
Noise Criteria (NC) $\leq 35$	
Panel Thickness 1" – 2"	
Panel Size 2' x 4' to 4' x 8'	
Material Mineral wool, fiberglass, or acoustic foam	
Fire Resistance Required	
Placement Walls (ear level), ceilings, doors	
Aesthetic Options	
Fabric/foam finishes, color choices	
<b>Desktop Digital Podium - 2 units</b>	
Desktop Digital Podium	
A desktop all-in-one smart podium designed to convert existing lecterns into smart podiums for classrooms, lecture halls, or conference rooms. The podium provides advanced annotation, device control, and AV broadcasting capabilities to enhance teaching and presentation experiences.	
Technical Specifications:	
Display & Input:	
Dual screens with optical bonding technology for annotation and device control	
23.8-inch main writing/annotation area	
Capacitive and electromagnetic dual touch support (finger and pen)	
Active capacitive stylus pen with 4096 pressure levels, pen tip annotation, pen tail eraser, Microsoft Pen Protocol and Windows Ink support, TYPE-C charging, and aluminum alloy body	
Screen Adjustment:	
Adjustable screen angle from 30° to 60° for ergonomic use (sitting or standing)	
Power Backup & Protection Equipment:	
Line-Interactive UPS with Built-in AVR	
AV & Connectivity:	
Built-in 3x2 AV matrix switch for flexible input/output switching and content display across multiple screens	
Supports both identical and different content presentations on multiple screens	
Device Control:	
Unified control of classroom devices (lights, interactive flat panels, projectors, air conditioners, electric curtains, etc.)	
Local control via touch panel and remote control via web console or mobile app (network-based)	
Audio:	
Integrated wireless microphone system and sound amplification for voice reinforcement	
Broadcasting & Streaming:	
Supports campus-wide AV broadcasting and live streaming over the network	
Capable of receiving real-time or scheduled content for announcements or educational sharing	
Computer Integration:	

Built-in high-end computer to eliminate the need for external PCs or laptops	
Construction:	
Desktop design to be placed on top of existing lectern	
Durable aluminum alloy integrated structure for longevity	
Specifications:	
Panel Type: IPS (TFT-LCD)	
Effective Screen Size: 23.8 Inch	
Resolution: 1920(H) x 1080 (V)	
Colors: 16.7M	
Brightness: 300 cd/m2	
Contrast Ratio: 1000:1	
Surface: 3mm Hardened Anti-Reflection Safety Glass (7H);	
AG+AF, Optical Bonding technology	
Viewing Angles: 178° (H), 178° (V)	
Touch: Capacitive, 10-point multi-touch, 4096 x 4096 resolution, Windows 7/8/10/11 compatible	
Handwriting: Active capacitive pen, 4096 pressure levels, ±0.25mm accuracy, < 5mm detection height, Windows Ink, Windows 7/8/10/11 compatible	
Control Panel: 10.1-inch Touch Control Panel for accessing NDP500 functions, RAM: 2GB, ROM: 16GB, CPU: Quad-core, 1.6GHz, NFC: Supported	
Specifications:	
Panel Type: IPS (TFT-LCD)	
Effective Screen Size: 23.8 Inch	
Resolution: 1920(H) x 1080 (V)	
Colors: 16.7M	
Brightness: 300 cd/m2	
Contrast Ratio: 1000:1	
Surface: 3mm Hardened Anti-Reflection Safety Glass (7H);	
AG+AF, Optical Bonding technology	
Viewing Angles: 178° (H), 178° (V)	
Touch: Capacitive, 10-point multi-touch, 4096 x 4096 resolution, Windows 7/8/10/11 compatible	
Handwriting: Active capacitive pen, 4096 pressure levels, ±0.25mm accuracy, < 5mm detection height, Windows Ink, Windows 7/8/10/11 compatible	
Control Panel: 10.1-inch Touch Control Panel for accessing NDP500 functions, RAM: 2GB, ROM: 16GB, CPU: Quad-core, 1.6GHz, NFC: Supported	
<b>Technical Specifications</b>	
All equipment must meet or exceed the technical features, capacities, and standards detailed in the attached Bill of Quantity	
Equipment must support seamless integration across AV, networking, audio, and control platforms.	
Cabling, mounting, connectors, and software necessary for complete installation must be included	
All classroom solutions must be upgradable and standards-compliant (local, national, and international ICT and educational standards).	
All documentation, including approved wiring and interconnection plan and diagram, users manual, and installation guide.	
<b>Detailed Deliverables</b>	
Fully functional smart classrooms with all equipment installed, tested, and integrated	
Configuration and interconnection of all devices to the university LAN and AV/IT control systems	
Approved wiring and interconnection plan and diagram, user manual, per installation guide per classroom and system	
Site visit certification	
Three (3) years minimum full on-site equipment	

warranty and support for major items;	
one (1) year for accessories	
Training programs:	
Technical/ICT team on O&M (Operations & Maintenance), troubleshooting, and device management	
Faculty users training on daily usage, interactive teaching, troubleshooting and platform integration	
Submission of test, calibration, and commissioning reports	
<b>Implementation Timeline</b>	
All deliveries and installations must be completed within 90 calendar days from Notice to Proceed, unless otherwise specified	
Support must be provided for system acceptance, testing, and handover	
<b>Supplier Qualification</b>	
Demonstrated experience with at least one similar smart classroom projects in educational settings within the last three years	
Submission of valid business permits, warranties, manufacturer certifications, and relevant training capabilities	
Supplier must provide a named project team, with CVs of at least one senior technical lead, installer, and training specialist	
Service Provider Certificate from the Manufacturer	
Certified Project Manager to handle the overall implementation	
Certified Project Engineer to handle day-to-day implementation	
Quality Assurance to ensure compliance with RA9292 standards	
The vendor should have a local dispatch team for on-site repairs & support 24/7	
Vendor should have Helpdesk Ticketing with 24/7 online support	
Authorized local service centers in any of the following areas: Negros, Iloilo, or Cebu.	
-x-x-x-x-x-x-x-x-x-x-nothing follows-x-x-x-x-x-x-x-x-x-x-	
<b>TOTAL ABC = Php 5,000,000.00</b>	
PR # 26-015-0116 01-16-26	
Income 007-164-26-01 01-16-26/R. Dela Torre (CO)	



**CARLOS HILADO MEMORIAL STATE UNIVERSITY  
BIDS AND AWARDS COMMITTEE**

Talisay City, Negros Occidental  
Tel. Nos.: (034) 454-0529; 454-0584 Local 142  
Mobile No.: 09205833046

Project Reference No: **CHMSU 26-007-0122-G**  
Name of the Project: **PROCUREMENT OF TURNKEY PROJECT ON DIGITAL EDUCATIONAL SPACES: ENHANCING ACADEMIC DELIVERY ACROSS CHMSU CAMPUSES**  
Location of the Project: **UNIVERSITY-WIDE**

page 1 of 11

***BILL OF QUANTITIES***

Date: \_\_\_\_\_

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			<b>ONE (1) LOT</b>		
			<b>Smart classroom equipment</b>		
			<b>Network video recorder - 4 units</b>		
			Three live view control views are provided: movie mode, picture-in-picture mode, and multi-screen mode		
			Auto live view control realizes automatic switch of teacher image, student image, and multimedia image, which helps to meet the demand of daily teaching requirement		
			ACC format audio encoding technology, up to 48 KHz audio input sampling rate, and internal sound mixing feature provide high audio quality		
			Specs:		
			5-ch IP Video Input		
			15.6" TFT LCD FHD (1920 × 1080)		
			Support touch screen		
			Video Compression H.265/H.264		
			Frame Rate 1 to 25 fps		
			Video Bitrate 32 Kbps to 16 Mbps		
			Interface 4-ch, RJ45 10M/100M self-adaptive Ethernet interface		
			1 SATA interface, 2 × USB 2.0, 1 × USB 3.0		
			Power Supply 48 VDC, 2.5 A		
			Consumption ≤ 120 W (with HDD)		
			Working Temperature -10 °C to 45 °C (14 °F to 113 °F)		
			Working Humidity 10% to 90%		
			Dimension (W × D × H) 378 × 40 × 262 mm (14.8 × 1.6 × 10.3 inch)		
			Weight ≤ 4.0 kg (≤ 8.8 pound)		
			Three live view control views are provided: movie mode, picture-in-picture mode, and multi-screen mode		
			Auto live view control realizes automatic switch of teacher image, student image, and multimedia image, which helps to meet the demand of daily teaching requirement		
			ACC format audio encoding technology, up to 48 KHz audio input sampling rate, and internal sound mixing feature provide high audio quality		
			Synchronously collect the teacher image, student image, and multimedia image via HDMI input		
			Real-time encoding for all cameras with up to 1080p resolution		
			Support setting different resolution, frame rate, and		

Signature of Bidder \_\_\_\_\_  
Name of Firm \_\_\_\_\_  
Date \_\_\_\_\_





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***BILL OF QUANTITIES***

Date: \_\_\_\_\_

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			bitrate for three streams, including main stream, sub-stream, and third stream		
			Support searching, playback, and downloading courses by keywords		
			Support publishing courses to FTP server by pressing the publish button on front panel		
			Support manual live view control, RTMP live view, playback course, and configure course plan in remote client or platform		
			Support RTMP multimedia		
			<b>86" Interactive Flat Panel Displays - 4 units</b>		
			UHD 4K display with resolution of 3840 × 2160.		
			Anti-glare and anti-blocking design to ensure smooth interaction.		
			Backlight DLED		
			Pixel Pitch 0.1645 H × 0.4935 V mm		
			Resolution 3840 × 2160 @60 Hz; Brightness 400 cd/m <sup>2</sup>		
			Infrared Touch Screen		
			Up to 50-point multi-touch		
			Touch Response Time ≤ 2 ms		
			Operation System Android 13.0, Memory 8 GB		
			Built-in Storage 128 GB		
			Processor Quad-core Cortex-A76 × 4 2.4 GHz and quad-core Cortex-A55 × 4 1.8 GHz		
			GPU Mali-G610 MC4		
			Microphone Omni-directional 8-array layout, Echo reduction and smart noise-cancellation		
			Voice Distance 12 meter		
			Built-in BLE (Bluetooth Low Energy) module supports Bluetooth 5.1		
			HDMI In (HDMI 2.0) × 3, VGA In × 1, DP In (DP 1.2) × 1, Audio In × 1		
			Power Backup & Protection Equipment:		
			Line-Interactive UPS with Built-in AVR		
			<b>86" Conference Flat Panel Mobile Brackets - 4 units</b>		
			SPCC high quality steel plate		
			Surface Treatment Sheet metal spraying		
			Package Dimensions (W × H × D)		
			1730 (W) mm × 800 (H) mm × 150 (D) mm		

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page 3 of 11

***BILL OF QUANTITIES***

Date: \_\_\_\_\_

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			(68 " × 31.5 " × 5.9 ")		
			<b>Streaming Camera for Student - 4 units</b>		
			High quality imaging with 8 MP resolution Efficient H.265+		
			compression technology to save bandwidth and storage		
			Clear imaging against strong back light due to 120 dB true		
			WDR technology 5 streams to meet a wide variety of		
			applications Water and dust resistant (IP67) and		
			vandal proof (IK10)		
			Max. Resolution 3840 × 2160		
			Shutter Time 1s to 1/100,000s		
			Angle Adjustment Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°		
			Focal Length & FOV		
			2.8 to 12 mm, horizontal FOV: 112.3° to 41.2°, vertical FOV: 58° to 23.1°, diagonal FOV: 137.3° to 47.3°		
			8 to 32 mm, horizontal FOV: 41.8° to 14.9°, vertical FOV: 22.92° to 8.48°, diagonal FOV: 48.7° to 17°		
			Focus Auto, Semi-auto, Manual		
			IR Wavelength 850 nm		
			Video Bit Rate 32 Kbps to 16 Mbps		
			Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB		
			Deep Learning Function Supports simultaneous detection and capture of human body, face, and vehicle,		
			Detects up to 120 faces simultaneously, captures up to 40 face pictures per frame.		
			Supports Multi-Dimension People Counting		
			<b>Streaming Camera for Teacher - 4 units</b>		
			4K deepinview indoor moto varifocal dome camera		
			High quality imaging with 8 MP resolution		
			Excellent low-light performance via DarkFighter technology		
			Efficient H.265+ compression technology to save bandwidth and storage		
			Clear imaging against strong back light due to 120 dB true WDR technology		
			5 streams to meet a wide variety of applications		
			Teacher behavior detection; blackboard writing detection		
			Max. Resolution 3840 × 2160		
			Shutter Time 1 s to 1/100,000 s		
			Angle Adjustment Pan: 0° to 355°, tilt: 0° to 75°, rotate:		

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Name of Firm \_\_\_\_\_

Date \_\_\_\_\_





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page 4 of 11

## ***BILL OF QUANTITIES***

Date: \_\_\_\_\_

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			0° to 355°		
			Focal Length & FOV 2.8 to 12 mm, horizontal		
			FOV: 112.3° to 41.2°, vertical FOV: 58° to 23.1°, diagonal		
			FOV: 137.3° to 47.3°		
			8 to 32 mm, horizontal FOV: 41.8° to 14.9°, vertical FOV:		
			22.92° to 8.48°, diagonal FOV: 48.7° to 17°		
			Focus Auto, Semi-auto, Manual		
			IR Wavelength 850 nm		
			Video Bit Rate 32 Kbps to 16 Mbps		
			Built-in memory card slot, support		
			microSD/microSDHC/microSDXC card, up to 1 TB		
			Deep Learning Function Supports simultaneous detection		
			and capture of human body, face, and vehicle, Detects up		
			to 120 faces simultaneously, captures up to 40 face		
			pictures per frame.		
			Supports Multi-Dimension People Counting		
			<b>In-Ceiling Mount for Dome Camera - 8 units</b>		
			Steel and Plastic		
			White		
			<b>Conferencing Ceiling Microphone - 4 units</b>		
			Adopts multi-mic array, picking up sounds in the radius up		
			to 10 meters		
			The built-in digital circuit is embedded with DSP		
			processing unit and AGC technology to realize clear sound		
			with high fidelity		
			With multi-mic array design and self-adaptive		
			beamforming technology, the microphone reduces		
			reverberation effectively		
			Supports accessing echo reference signal via line in		
			interface, and with AEC algorithm, the microphone		
			suppresses echo and squeal effectively		
			Supports smart noise reduction, avoiding environmental		
			noise		
			The indicator is convenient for troubleshooting		
			Supports network settings and transmitting the audio		
			stream to network camera and DVR/NVR		
			Supports 32 kHz audio sampling rate for HD sound		
			Power over ethernet, convenient for installation		
			SNR 90 dB		

Signature of Bidder \_\_\_\_\_  
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Location of the Project: **UNIVERSITY-WIDE**

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***BILL OF QUANTITIES***

Date: \_\_\_\_\_

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			Power 9 VDC~30 VDC, PoE, 2.4 W Max		
			Material Plastic		
			Dimension Ø250 mm × 34.5 mm (Ø9.84" × 1.36")		
			Weight Approx. 740 g (1.63 lb.)		
			Direction Omnidirectional		
			Audio Transmission Distance ≥3000 m		
			Noise Reduction Adjustment digital noise reduction		
			Audio Sampling Rate 16 kHz, 32 kHz		
			<b>Network Speakers system - 4 units</b>		
			2 speakers set per classroom		
			Rated Power 10 W each		
			Impedance 8 Ω		
			Max. Acoustic Pressure 98 dBSPL		
			Sensitivity(1 m, 1 W) 90 dB		
			Frequency Response 100 Hz to 20 kHz		
			Ethernet Interface RJ45 10 M/100 M Adaptive Ethernet		
			port × 1		
			Audio In 3.5 mm audio interface × 1		
			Power 24 VDC/1.5 A		
			Operating Temperature -10 °C to 50 °C(14 °F to 122 °F)		
			Dimension 180.6 mm × 156 mm × 280mm (7.11" × 6.14" × 11.02")		
			Built-in 4 GB EMMC (Audio file storage is 1 GB.)		
			<b>Surveillance-optimized hard drive - 4 units</b>		
			4TB / 64MB (6Gb/s NCQ) / 5900RPM / SATA3 Hard Disk		
			<b>8 Port Gigabit Smart Switch - 4 units</b>		
			8 × Gigabit PoE port, 2 × Gigabit RJ45 port		
			Total PoE Power Budget 60W		
			Support 802.1Q VLAN		
			Support PoE watchdog to detect and restart the cameras that do not respond		
			Support STP/RSTP Loop prevention		
			Support cable detection to locate failure		
			Up to 300 m Long Range PoE Transmission		
			6KV Surge Protection		
			L2, Smart Managed, 8 Gigabit RJ45 ports, Visualized		
			Topology Management, Network Health Monitor, Real-Time Alarm Push and Video Control and Preview		

Signature of Bidder \_\_\_\_\_  
Name of Firm \_\_\_\_\_  
Date \_\_\_\_\_





**CARLOS HILADO MEMORIAL STATE UNIVERSITY  
BIDS AND AWARDS COMMITTEE**

Talisay City, Negros Occidental  
Tel. Nos.: (034) 454-0529; 454-0584 Local 142  
Mobile No.: 09205833046

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Date: \_\_\_\_\_

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			<b>16-Port Gigabit Smart POE+ Switch - 1 unit</b>		
			16 x gigabit PoE RJ45 ports, 1 x gigabit RJ45 port, 1 x gigabit fiber optical port		
			Total PoE power budget 130 W		
			Unified cloud management for security systems		
			Network topology at your fingertips		
			Remote troubleshooting		
			Visualized topology management		
			Up to 300 m long-range PoE transmission		
			6 kV surge protection		
			<b>Mobile Podium - 4 units</b>		
			Height Adjustable		
			Number of Wheels: 4		
			Material: Carbon Steel Pipe, MDF, Hardware		
			Net Weight: 9kg/ 19.8lbs		
			Gross Weight: 10kg/ 22.05lbs		
			Desktop Board Weight Capacity: 15kg/ 33.1lbs		
			Small Board Weight Capacity: 20kg/ 44 lbs		
			<b>Remote Share Tool - 4 units</b>		
			Central Enterprise – Classin Remote Sharing and Training Solution		
			Software Training Solution, remote training solution expands the online training scene to better meet the needs of users.		
			Full compatibility with mainstream conference software like Zoom, Webex, Google Meet, Microsoft Teams, Facebook, Youtube		
			Immersive training experience – High-definition close-up and panorama of the training site are brought to the remote students, with automatic character tracking and automatic switch between close-up and panorama, which greatly improves the training effect compared with the traditional single teacher's profile picture.		
			Simple operation – One click before training, complete all configuration operations within 30 seconds, improving ease of use.		
			A lightweight PC tool for streaming conversions with a simple configuration in 3 steps:		
			• Add devices through IP connection		

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Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			• Enable sharing by activating the connection		
			• Flexible views from device based on intelligent algorithms include teacher panoramic, close-ups, and blackboard writing views.		
			<b>Rooms Acoustics - 4 sets</b>		
			16 units per set – room acoustic panels		
			NRC (Noise Reduction Coefficient) $\geq 0.7$		
			Reverberation Time 0.4 – 0.6 seconds		
			STC (Sound Transmission Class) 40 – 45 dB		
			Noise Criteria (NC) $\leq 35$		
			Panel Thickness 1" – 2"		
			Panel Size 2' x 4' to 4' x 8'		
			Material Mineral wool, fiberglass, or acoustic foam		
			Fire Resistance Required		
			Placement Walls (ear level), ceilings, doors		
			Aesthetic Options		
			Fabric/foam finishes, color choices		
			<b>Desktop Digital Podium - 2 units</b>		
			Desktop Digital Podium		
			A desktop all-in-one smart podium designed to convert existing lecterns into smart podiums for classrooms, lecture halls, or conference rooms. The podium provides advanced annotation, device control, and AV broadcasting capabilities to enhance teaching and presentation experiences.		
			Technical Specifications:		
			Display & Input:		
			Dual screens with optical bonding technology for annotation and device control		
			23.8-inch main writing/annotation area		
			Capacitive and electromagnetic dual touch support (finger and pen)		
			Active capacitive stylus pen with 4096 pressure levels, pen tip annotation, pen tail eraser, Microsoft Pen Protocol and Windows Ink support, TYPE-C charging, and aluminum alloy body		
			Screen Adjustment:		
			Adjustable screen angle from 30° to 60° for ergonomic use (sitting or standing)		
			Power Backup & Protection Equipment:		
			Line-Interactive UPS with Built-in AVR		

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***BILL OF QUANTITIES***

Date: \_\_\_\_\_

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			AV & Connectivity:		
			Built-in 3x2 AV matrix switch for flexible input/output		
			switching and content display across multiple screens		
			Supports both identical and different content presentations		
			on multiple screens		
			Device Control:		
			Unified control of classroom devices (lights, interactive flat		
			panels, projectors, air conditioners, electric curtains, etc.)		
			Local control via touch panel and remote control via web		
			console or mobile app (network-based)		
			Audio:		
			Integrated wireless microphone system and sound		
			amplification for voice reinforcement		
			Broadcasting & Streaming:		
			Supports campus-wide AV broadcasting and live streaming		
			over the network		
			Capable of receiving real-time or scheduled content for		
			announcements or educational sharing		
			Computer Integration:		
			Built-in high-end computer to eliminate the need for		
			external PCs or laptops		
			Construction:		
			Desktop design to be placed on top of existing lectern		
			Durable aluminum alloy integrated structure for longevity		
			Specifications:		
			Panel Type: IPS (TFT-LCD)		
			Effective Screen Size: 23.8 inch		
			Resolution: 1920(H) x 1080 (V)		
			Colors: 16.7M		
			Brightness: 300 cd/m2		
			Contrast Ratio: 1000:1		
			Surface: 3mm Hardened Anti-Reflection Safety Glass (7H);		
			AG+AF, Optical Bonding technology		
			Viewing Angles: 178° (H), 178° (V)		
			Touch: Capacitive, 10-point multi-touch, 4096 x 4096		
			resolution, Windows 7/8/10/11 compatible		
			Handwriting: Active capacitive pen, 4096 pressure levels,		
			±0.25mm accuracy, < 5mm detection height, Windows Ink,		
			Windows 7/8/10/11 compatible		
			Control Panel: 10.1-inch Touch Control Panel for accessing		
			NDP500 functions, RAM: 2GB, ROM: 16GB, CPU: Quad-		

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***BILL OF QUANTITIES***

Date: \_\_\_\_\_

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			core, 1.6GHz, NFC: Supported		
			Specifications:		
			Panel Type: IPS (TFT-LCD)		
			Effective Screen Size: 23.8 inch		
			Resolution: 1920(H) x 1080 (V)		
			Colors: 16.7M		
			Brightness: 300 cd/m2		
			Contrast Ratio: 1000:1		
			Surface: 3mm Hardened Anti-Reflection Safety Glass (7H);		
			AG+AF, Optical Bonding technology		
			Viewing Angles: 178° (H), 178° (V)		
			Touch: Capacitive, 10-point multi-touch, 4096 x 4096		
			resolution, Windows 7/8/10/11 compatible		
			Handwriting: Active capacitive pen, 4096 pressure levels,		
			±0.25mm accuracy, < 5mm detection height, Windows Ink,		
			Windows 7/8/10/11 compatible		
			Control Panel: 10.1-inch Touch Control Panel for accessing		
			NDP500 functions, RAM: 2GB, ROM: 16GB, CPU: Quad-		
			core, 1.6GHz, NFC: Supported		
			<b>Technical Specifications</b>		
			All equipment must meet or exceed the technical		
			features, capacities, and standards detailed		
			in the attached Bill of Quantity		
			Equipment must support seamless integration		
			across AV, networking, audio, and control platforms.		
			Cabling, mounting, connectors, and software		
			necessary for complete installation must be included		
			All classroom solutions must be upgradable and		
			standards-compliant (local, national, and international		
			ICT and educational standards).		
			All documentation, including approved wiring and		
			interconnection plan and diagram, users manual,		
			and installation guide.		
			<b>Detailed Deliverables</b>		
			Fully functional smart classrooms with all equipment		
			installed, tested, and integrated		
			Configuration and interconnection of all devices to		
			the university LAN and AV/IT control systems		

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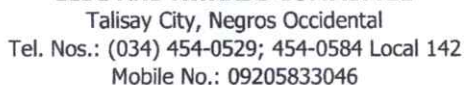
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***BILL OF QUANTITIES***

Date: \_\_\_\_\_

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			Approved wiring and interconnection plan and diagram, user manual, per installation guide per classroom and system		
			Site visit certification		
			Three (3) years minimum full on-site equipment warranty and support for major items;		
			one (1) year for accessories		
			Training programs:		
			Technical/ICT team on O&M (Operations & Maintenance), troubleshooting, and device management		
			Faculty users training on daily usage, interactive teaching, troubleshooting and platform integration		
			Submission of test, calibration, and commissioning reports		
			<b>Implementation Timeline</b>		
			All deliveries and installations must be completed within 90 calendar days from Notice to Proceed , unless otherwise specified		
			Support must be provided for system acceptance, testing, and handover		
			<b>Supplier Qualification</b>		
			Demonstrated experience with at least one similar smart classroom projects in educational settings within the last three years		
			Submission of valid business permits, warranties, manufacturer certifications, and relevant training capabilities		
			Supplier must provide a named project team, with CVs of at least one senior technical lead, installer, and training specialist		
			Service Provider Certificate from the Manufacturer		
			Certified Project Manager to handle the overall implementation		
			Certified Project Engineer to handle day-to-day implementation		
			Quality Assurance to ensure compliance with RA9292 standards		

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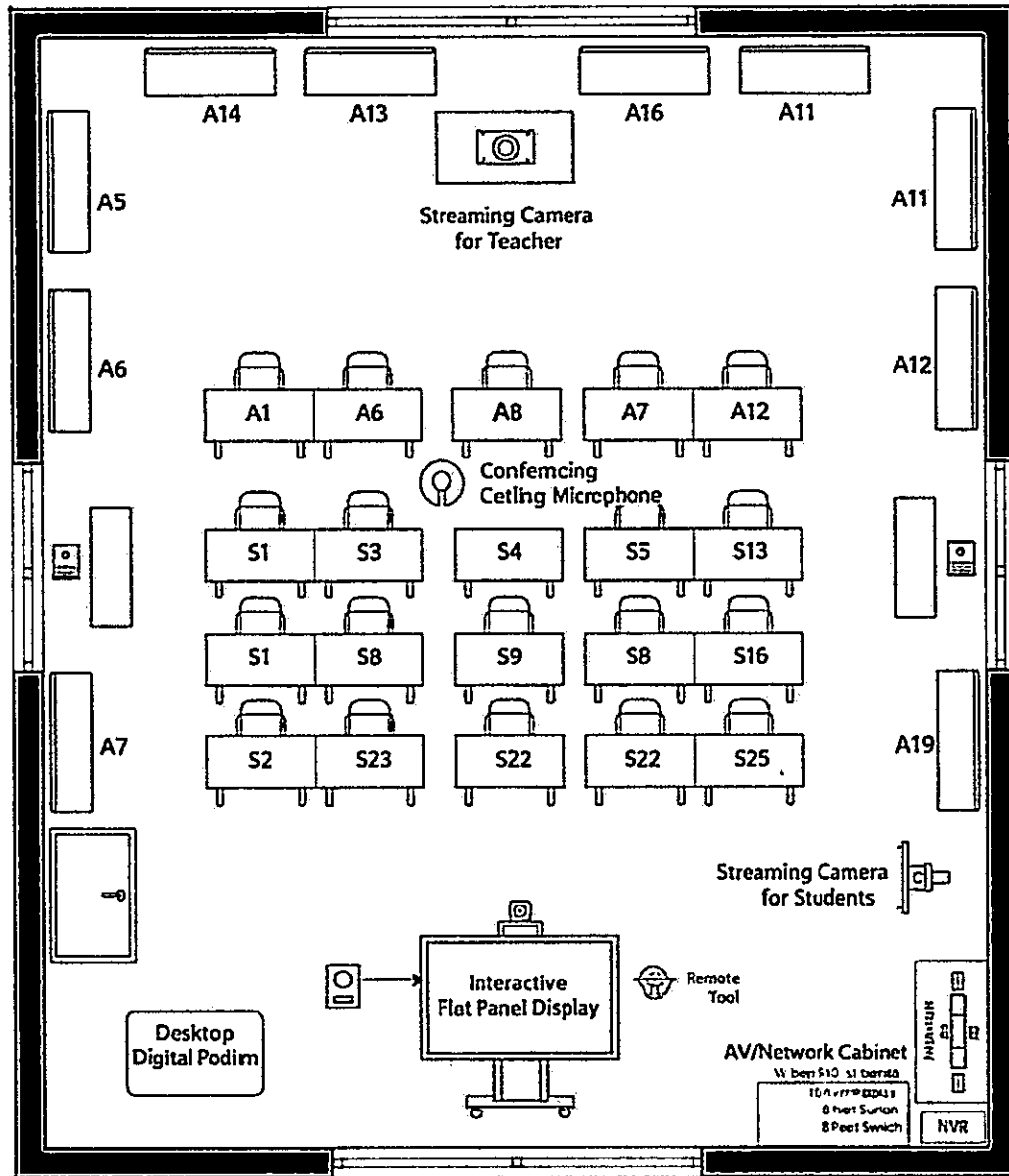
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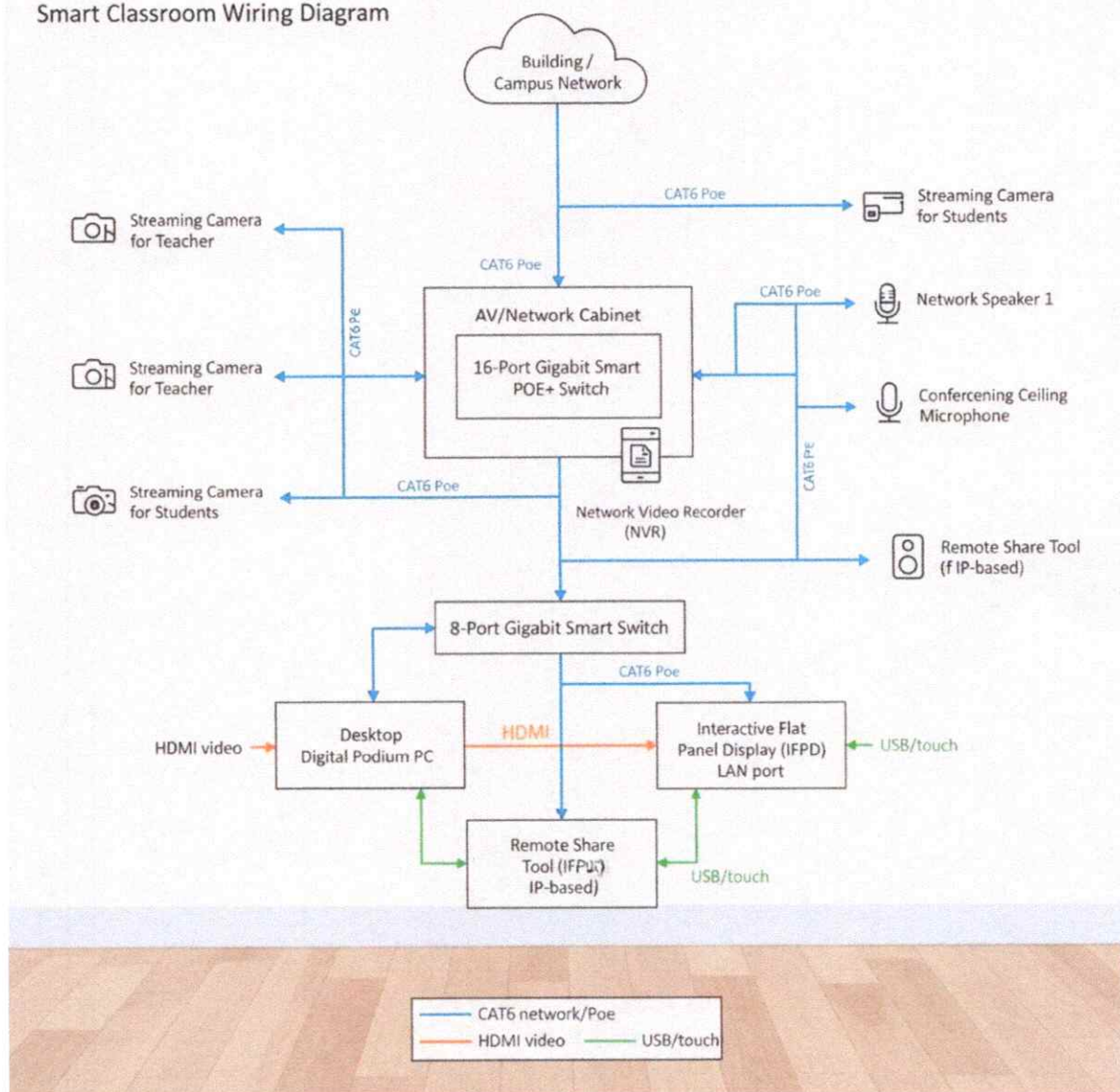
# SMART CLASSROOM SETUP

## SAMPLE FLOOR PLAN



## SAMPLE WIRING DIAGRAM

Smart Classroom Wiring Diagram



PERSPECTIVE VIEW

