



SUPPLY AND DELIVERY OF OFFICE SUPPLIES, COMMUNICATION EXPENSES, ICT EQUIPMENT AND FURNITURE & FIXTURES FOR THE MAMI PROJECT OF MinSU

Name of Project

**BAC Resolution Recommending Approval
Resolution No. 108, s. 2024**

WHEREAS, the **Mindoro State University (MinSU)**, through Bids and Awards Committee (BAC) has advertised in the PhilGEPS and MinSU Website the Invitation to Bid (ITB) for the project **“Supply and Delivery of Office Supplies, Communication Expenses, ICT Equipment and Furniture & Fixtures for the MAMI Project of MinSU”** with an Approved Budget for the Contract (ABC) in the amount of **One Million Six Hundred Thousand Two Hundred Sixty Pesos (Php1,600,260.00)**;

| Particulars | Sub-ABC |
|-----------------------------------|---------------|
| Lot 1- Office Supplies | Php246,160.00 |
| Lot 2- Communication Expenses | Php70,000.00 |
| Lot 3 – ICT Equipment | Php418,000.00 |
| Lot 4 – Semi Furniture & Fixtures | Php866,100.00 |

WHEREAS, in response to the said advertisement, eight (8) suppliers were found in the document request list however, only two (2) suppliers in the name of **PAPERCAT OFFICE SUPPLIES AND EQUIPMENT TRADING** and **BITSOFT TECHNOLOGY CO.** purchased and submitted the bidding documents;

WHEREAS, **BITSOFT TECHNOLOGY CO.** submitted bidding documents for Lot 1; while **PAPERCAT OFFICE SUPPLIES AND EQUIPMENT TRADING** submitted bidding documents for Lot 1, 2, 3 and 4;

WHEREAS, the bid proposals submitted by the two (2) bidders passed the preliminary evaluation of technical requirements and were found to be substantially complying;

WHEREAS, upon opening the financial components of **BITSOFT TECHNOLOGY CO.** it was found out that there was discrepancy between words and figures in their Bid form;

WHEREAS, upon opening the financial components of **PAPERCAT OFFICE SUPPLIES AND EQUIPMENT TRADING** it was found out that there was a discrepancy in the total amount indicated in their Bid Form and the actual sum of pieces of component items in their Bill of Quantities;

WHEREAS, for purposes of evaluation, the BAC shall use a non-discretionary criterion in considering the completeness of bid and arithmetical corrections; any computational error and omissions shall be determined to enable proper comparisons of all eligible bids. Such arithmetical corrections should be subject to the rules provided in Section 32.2.3 of the IRR of RA 9184 which was hereby quoted as:

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In case of discrepancies between:

(a) bid prices in figures and in words, the latter shall prevail;

(b) total price per item and unit price for the item as extended or multiplied by the quantity of that item, the latter shall prevail;

(c) stated total price and the actual sum of prices of component items, the latter shall prevail;

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WHEREAS, upon analyzing the discrepancies found on the financial documents submitted by **BITSOFT TECHNOLOGY CO.**, following a thorough review, the bid proposal was not qualified for award;

WHEREAS, this decision stems from the fact that there was an error noted in their bid amount, both in words and in figures, as indicated in their bid form;

WHEREAS, As per section 32.2.3 of the Revised IRR of the RA 9184, it is mandated that in case of discrepancies between bid prices in figures and words, the latter shall prevail;

WHEREAS, the bid amount in words was stated as **"Seven Hundred Two Hundred Ten Thousand Nine Hundred Fifty-six Pesos Only"** and regrettably, resulting to the outright disqualification of their proposal during the bid evaluation process;

WHEREAS, upon analyzing the discrepancies found on the financial documents submitted by **PAPERCAT OFFICE SUPPLIES AND EQUIPMENT TRADING** following a thorough review, the bid proposal was qualified for award;

WHEREAS, as per section 32.2.3 of the Revised IRR of the RA 9184, it is mandated that in case of discrepancies between stated total price and the actual sum of prices of component items, the latter shall prevail; since upon thorough evaluation, there was no arithmetical errors in the actual sum of component items in their Bill of Quantities, therefore, their bid proposal was hereby accepted by the BAC;

WHEREAS, the detailed evaluation of bids conducted on April 23, 2024 resulted in the following:

| Lot No. | Approved Budget for the Contract (ABC) | Name of Bidder | Bid Amount (As Read & Calculated) | % Variance from ABC |
|---------|--|--|-----------------------------------|--------------------------|
| 1 | Php246,160.00 | Papercat Office Supplies and Equipment Trading | Php252,831.00 | -2.71% or Php-6,671.00 |
| 2 | Php70,000.00 | | Php122,617.00 | -75.16% or Php-52,617.00 |
| 3 | Php418,000.00 | | Php417,699.00 | .07% or Php301.00 |
| 4 | Php866,100.00 | | Php755,373.00 | 12.78% or Php110,727.00 |

WHEREAS, upon careful examination, validation and verification of all the eligibility, technical and financial requirements submitted by the bidder, the bids of **PAPERCAT OFFICE SUPPLIES AND EQUIPMENT TRADING** was found to be complying and responsive;

WHEREAS, the TWG of MinSU certified that the bidders complied with the Post-Qualification Evaluation and recommended the awarding of contract for the project **"Supply and Delivery of Office Supplies, Communication Expenses, ICT Equipment and Furniture & Fixtures for the MAMI Project of MinSU"** to **PAPERCAT OFFICE SUPPLIES AND EQUIPMENT TRADING** for Lots 3 and 4, as the bidder with Single Calculated Responsive Bid (SCRB) for Lots 3 and 4;

WHEREAS, the bid proposal of **PAPERCAT OFFICE SUPPLIES AND EQUIPMENT TRADING** for Lots 1 and 2 exceeded the total ABC amount, thus the BAC recommended the second publication of Lots 1 and 2 for rebidding;



WHEREAS, upon analyzing the discrepancies found on the financial documents submitted by **BITSOFT TECHNOLOGY CO.**, following a thorough review, the bid proposal was not qualified for award;

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| Particulars | Bidder/Address | Bid Amount |
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| Lot 3 – ICT Equipment | Papercat Office Supplies and Equipment Trading Sto. Niño, Calapan City, Oriental Mindoro | Php417,699.00 |
| Lot 4 – Semi Furniture & Fixtures | | Php755,373.00 |

WHEREAS, Lots 1 and 2 will be reposted in the PhilGEPS, MinSU Website and other conspicuous place in the University;

NOW, THEREFORE, the members of Bids and Awards Committee (BAC) **HEREBY RESOLVED AS IT IS HEREBY RESOLVED** recommended for approval by the Head of the Procuring Entity of the Mindoro State University the award of the project “**Supply and Delivery of Office Supplies, Communication Expenses, ICT Equipment and Furniture & Fixtures for the MAMI Project of MinSU**” to **PAPERCAT OFFICE SUPPLIES AND EQUIPMENT TRADING** with official address at Sto. Niño, Calapan City, Oriental Mindoro as the bidder with Single Calculated Responsive Bid (SCRB), amounting to **Four Hundred Seventeen Thousand Six Hundred Ninety-Nine Pesos (Php417,699.00)** for Lot 3 and **Seven Hundred Fifty-Five Thousand Three Hundred Seventy-Three Pesos (Php755,373.00)** for Lot 4;

NOW, THEREFORE, the Bids and Awards Committee (BAC) **HEREBY FUTHER RESOLVED AS IT IS HEREBY FURTHER RESOLVED** recommended for approval by the Head of the Procuring Entity of the Mindoro State University the rebidding of Lots 1 and 2 in the PhilGEPS, MinSU Website and other conspicuous place in the University;

RESOLVED, at MinSU Main Campus, Alcate, Victoria, Oriental Mindoro, this 16th day of May, 2024.

ANSELMO R. ULEP, JR.
BAC Vice-Chairperson

NEMESIO H. DAVALOS, Ph.D.
BAC Chairperson

ELVI C. ESCAREZ, Ph.D.
BAC Member

CIEDELLE P. SALAZAR Ph.D
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MELGAR G. FADRIQUELAN
BAC Member

Approved/Disapproved

CHRISTIAN ANTHONY C. AGUTAYA Ph.D.
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Date: _____



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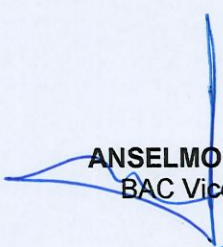
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Approved/Disapproved


CHRISTIAN ANTHONY C. AGUTAYA Ph.D.
OIC, Office of the University President
Date: _____

Bid Form for the Procurement of Goods
(shall be submitted with the Bid)

Date: April 22, 2024

Invitation to Bid No: 2024-009

To: **NEMESIO H. DAVALOS, Ph.D.**
BAC Chairperson
Mindoro State University
Alcate, Victoria, Oriental Mindoro

Having examined the Bidding Documents including Bid Bulletin Numbers **ITB 2024-009**, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to **SUPPLY AND DELIVERY OF OFFICE SUPPLIES, COMMUNICATION EXPENSES, ICT EQUIPMENT AND FURNITURE & FIXTURES FOR THE MAMI PROJECT OF MinSU** in conformity with the said Bidding Documents for the sum of **One Million Six Hundred Thousand Two Hundred Sixty Pesos (Php1,600,260.00)** or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid. The total bid price includes the cost of all taxes, such as, but not limited to: [specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties], which are itemized herein or in the Price Schedules,

If our Bid is accepted, we undertake:

- a. to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);
- b. to provide a performance security in the form, amounts, and within the times prescribed in the PBDs;
- c. to abide by this Bid for the Bid Validity Period specified in the PBDs and it shall remain binding upon us at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements pursuant to the PBDs.

We acknowledge that failure to sign each and every page of this Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

Name : **Papercat Office Supplies and Equipment Trading**

Legal Capacity: **Proprietor**

Signature: 

Duly authorized to sign the Bid for and in behalf of: **Mary Frances Dominique DG. Castro**

Date : **April 22, 2024**

Bill of Quantities

Name of Bidder: : **Papercat Office Supplies and Equipment Trading**

Invitation to Bid No.: **2024-009**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------|---|-------------------|----------|-------------------------|---|--|--|-------------------------------------|---|
| Item | Description | Country of origin | Quantity | Unit price exw per item | Transportation and Insurance and all other costs incidental to delivery, per item | Sales and other taxes payable if Contract is awarded, per item | Cost of Incidental Services, if applicable, per item | Total Price, per unit (col 5+6+7+8) | Total Price delivered Final Destination (col 9) x (col 4) |
| | Lot 1 - Office Supplies | | | | | | | | |
| 1 | Long Bond Paper (Substance 20) | Philippines | 200 | 240.74 | 8.37 | 29.89 | 0 | 279.00 | 55,800.00 |
| 2 | A4 Bond Paper (Substance 20) | Philippines | 200 | 209.67 | 7.29 | 26.04 | 0 | 243.00 | 48,600.00 |
| 3 | Staple Wire #35 | Philippines | 30 | 57.81 | 2.01 | 7.18 | 0 | 67.00 | 2,010.00 |
| 4 | Blue Sign pen (Hi-Techpoint) | Philippines | 30 | 63.85 | 2.22 | 7.93 | 0 | 74.00 | 2,220.00 |
| 5 | ink Bottle Set (Bt 5000, Bt D60) | Philippines | 25 | 1770.58 | 61.56 | 219.86 | 0 | 2,052.00 | 51,300.00 |
| 6 | ink Bottle Set (Bk 005/005S) | Philippines | 30 | 713.58 | 24.81 | 88.61 | 0 | 827.00 | 24,810.00 |
| 7 | Manual Crack Pencil Sharpener (Heavy Duty) | Philippines | 2 | 333.93 | 11.61 | 41.46 | 0 | 387.00 | 774.00 |
| 8 | 8 Inches Stainless Steel Scissor (Heavy Duty) | Philippines | 5 | 37.10 | 1.29 | 4.61 | 0 | 43.00 | 215.00 |
| 9 | Ring Binding Machine (Heavy Duty) | Philippines | 2 | 2801.70 | 97.41 | 347.89 | 0 | 3,247.00 | 6,494.00 |
| 10 | Wooden Clipboard (Long) | Philippines | 40 | 81.11 | 2.82 | 10.07 | 0 | 94.00 | 3,760.00 |
| 11 | Certificate Holder (A4) | Philippines | 50 | 44.01 | 1.53 | 5.46 | 0 | 51.00 | 2,550.00 |
| 12 | Packaging Tape (2") | Philippines | 31 | 157.90 | 5.49 | 19.61 | 0 | 183.00 | 5,673.00 |
| 13 | Wyteboard Marker (Black) | Philippines | 20 | 63.85 | 2.22 | 7.93 | 0 | 74.00 | 1,480.00 |
| 14 | Wyteboard Marker (Blue) | Philippines | 20 | 63.85 | 2.22 | 7.93 | 0 | 74.00 | 1,480.00 |
| 15 | Wyteboard Marker Refill Ink (Black) | Philippines | 40 | 123.39 | 4.29 | 15.32 | 0 | 143.00 | 5,720.00 |
| 16 | Wyteboard Marker Refill Ink (Blue) | Philippines | 30 | 123.39 | 4.29 | 15.32 | 0 | 143.00 | 4,290.00 |
| 17 | White Folder (Long) 100pcs | Philippines | 5 | 805.91 | 28.02 | 100.07 | 0 | 934.00 | 4,670.00 |
| 18 | White Glue 130 MI | Philippines | 35 | 60.40 | 2.1 | 7.50 | 0 | 70.00 | 2,450.00 |
| 19 | Office Heavy Duty Puncher (Big) | Philippines | 5 | 336.51 | 11.7 | 41.79 | 0 | 390.00 | 1,950.00 |
| 20 | High Glossy Photo Paper A4 | Philippines | 5 | 31.06 | 1.08 | 3.86 | 0 | 36.00 | 180.00 |
| 21 | Scotch Tape 1 inch | Philippines | 25 | 31.06 | 1.08 | 3.86 | 0 | 36.00 | 900.00 |
| 22 | Scotch Tape 'A Inch | Philippines | 16 | 25.89 | 0.9 | 3.21 | 0 | 30.00 | 480.00 |

[illegible]

| | | | | | | | | | |
|---|--|-------------|---|-----------|----------|----------|--------|-----------|------------|
| 1 | Desktop | Philippines | 4 | 49,069.14 | 1,726.05 | 6,164.46 | 575.35 | 57,535.00 | 230,140.00 |
| | -Intel Core i7 6th gen. processor | | | | | | | | |
| | -1151 h110 motherboard | | | | | | | | |
| | -8gb ram ddr4,120gb ssd | | | | | | | | |
| | -500gb hdd , gtx1060 6gb | | | | | | | | |
| | -192 bit ddr5 videocard | | | | | | | | |
| | 750watts power supply | | | | | | | | |
| | -m2 tempered case , 3pcs rgb led fan | | | | | | | | |
| | -24inches ips viewpoint wide led monitor | | | | | | | | |
| | stx200rgb kb and mouse | | | | | | | | |
| 2 | A3 Printer | Philippines | 1 | 33,096.61 | 1,150.71 | 4,109.68 | 0 | 38,357.00 | 38,357.00 |
| | Print, Scan, Copy, Fax with ADF | | | | | | | | |
| | -Cassette: 250 sheets for A4 Plain Paper | | | | | | | | |
| | (80g/m2), 20 sheets for Premium Glossy | | | | | | | | |
| | Photo Paper | | | | | | | | |
| | Rearslot:20 sheets for A3+ | | | | | | | | |
| | Plain Paper (80g/m2), | | | | | | | | |
| | 30 sheets for A4 Plain Paper (80g/m2), | | | | | | | | |
| | 20 sheets for Premium Glossy Photopaper | | | | | | | | |
| | A3, A3+, Super B, USB (11 x 17"), Legal | | | | | | | | |
| | Indian Legal, Letter, | | | | | | | | |
| | A4, 16K(195x270mm), 8K (270 x 390mm), | | | | | | | | |
| | Executive, B4,B5, A5, B6, A6 | | | | | | | | |
| | Hagaki (100x148mm), Mexico-Oficio, 8.5 x 13", | | | | | | | | |
| | Oficio9, Half-Letter, 5 x 7", 4 x 6", 8 x 10", | | | | | | | | |
| | 11 x 14" , 16:9 wide, Envelopes: #10, | | | | | | | | |
| | DL, C6, C4498 x 358 x 245mm | | | | | | | | |
| 3 | Handheld GPS Navigator | Philippines | 4 | 18,482.40 | 642.60 | 2,295.00 | 0 | 21,420.00 | 85,680.00 |
| | Enhancement Memory and Resolution | | | | | | | | |
| | - 2.2 inch Color Display | | | | | | | | |
| | Water Resistant | | | | | | | | |
| | -Large 3.7 GB of Internal memory | | | | | | | | |
| | And microSD card slot lets you load | | | | | | | | |
| | A variety of maps, including TOPO | | | | | | | | |
| | 24K, HuntView, BlueChart g2, | | | | | | | | |
| | City Navigator NT and BirdsEye | | | | | | | | |
| | Satellite Imagery | | | | | | | | |
| 4 | Wireless Projector | Philippines | 1 | 35,244.26 | 1,225.38 | 4,376.36 | 0 | 40,846.00 | 40,846.00 |

| | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--|-------------|----|-----------|----------|----------|---------|-----------|------------|-------|--------------|--|--|--|--|--|--|--|--|
| | -1024 x 768 with 3800 Lumens and 12000 Hours ECO | | | | | | | | | | | | | | | | | | |
| 5 | 2 TB external hard drive | Philippines | 3 | 5,235.82 | 182.04 | 650.14 | 0 | 6,068.00 | 18,204.00 | | | | | | | | | | |
| 6 | Uninterruptible Power Supply | Philippines | 2 | 1,929.35 | 67.08 | 239.57 | 0 | 2,236.00 | 4,472.00 | | | | | | | | | | |
| | -650 VA | | | | | | | | | | | | | | | | | | |
| | 220 VAC input voltage, 50-60 Hz | | | | | | | | | | | | | | | | | | |
| | Sine wave under main supply | | | | | | | | | | | | | | | | | | |
| | Intelligent battery management | | | | | | | | | | | | | | | | | | |
| | Lot 4 - Semi Furniture & Fixtures | | | | | | | | | | | | | | | | | | |
| 1 | Full Glass Sliding Door Cabinet | Philippines | 3 | 12,352.46 | 596.84 | 1,598.68 | 373.025 | 14,921.00 | 44,763.00 | | | | | | | | | | |
| | -120 x 60 x 200 cm (LxWxH) | | | | | | | | | | | | | | | | | | |
| | Filling cabinet with sliding glass doors | | | | | | | | | | | | | | | | | | |
| | Adjustable Shelves Storage | | | | | | | | | | | | | | | | | | |
| | High cabinet with lock | | | | | | | | | | | | | | | | | | |
| 2 | Aluminum Cabinet and Organizer | Philippines | 3 | 11,432.71 | 552.40 | 1,479.64 | 345.25 | 13,810 | 41,430.00 | | | | | | | | | | |
| | -120 x 60 x 200 cm (LxWxH) | | | | | | | | | | | | | | | | | | |
| | Filling cabinet with swing metal doors | | | | | | | | | | | | | | | | | | |
| | Materials: cold rolled steel plate (SPCC) | | | | | | | | | | | | | | | | | | |
| | Finish: Electrostatic Powder Coating | | | | | | | | | | | | | | | | | | |
| | -Steel Thickness: 0.6mm | | | | | | | | | | | | | | | | | | |
| | -Inner Parts: 4 shelves lock with 2 keys | | | | | | | | | | | | | | | | | | |
| 3 | Office Chairs | Philippines | 10 | 6,470.53 | 312.64 | 837.43 | 195.40 | 7,816.00 | 78,160.00 | | | | | | | | | | |
| | Glossy Black Nylon Base, Twin Casters | | | | | | | | | | | | | | | | | | |
| | Leatherette, L665xW675xH1198-1298mm | | | | | | | | | | | | | | | | | | |
| | 25.00 kgs | | | | | | | | | | | | | | | | | | |
| 4 | Mobile Pedestal Flush-Type | Philippines | 10 | 7,739.29 | 369.48 | 989.68 | 138.56 | 9,237.00 | 92,370.00 | | | | | | | | | | |
| | -40 x 56 x 65 cm | | | | | | | | | | | | | | | | | | |
| | -3 drawer steel cabinet | | | | | | | | | | | | | | | | | | |
| | central locking system | | | | | | | | | | | | | | | | | | |
| | -Gauge 22 | | | | | | | | | | | | | | | | | | |
| 5 | Office Modular Twin Work Station | Philippines | 10 | 39,785.15 | 1,994.60 | 5,342.68 | 2742.58 | 49,865.00 | 498,650.00 | | | | | | | | | | |
| | -dimension for cubicle is 60cm by 150cm, | | | | | | | | | | | | | | | | | | |
| | and the panel height is 120 cm. | | | | | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | | | | | | | | | Total | 1,548,520.00 | | | | | | | | |

Submitted by: Mary Frances Dominique DG. Castro
Designation: Proprietor
Date: April 22, 2024



Bid Notice Abstract

Invitation to Bid (ITB)

Reference Number 10722629
Procuring Entity MINDORO STATE UNIVERSITY
Title SUPPLY AND DELIVERY OF OFFICE SUPPLIES, COMMUNICATION EXPENSES, ICT EQUIPMENT AND FURNITURE & FIXTURES FOR THE MAMI PROJECT OF MinSU
Area of Delivery Oriental Mindoro

| | | | |
|--|---|------------------------------|---------------------|
| Solicitation Number: | ITB 2024-009 | Status | Closed |
| Trade Agreement: | Implementing Rules and Regulations | Associated Components | 1 |
| Procurement Mode: | Public Bidding | Bid Supplements | 6 |
| Classification: | Goods | Document Request List | 8 |
| Category: | Office Supplies and Devices | Date Published | 04/04/2024 |
| Approved Budget for the Contract: | PHP 1,600,260.00 | Last Updated / Time | 18/04/2024 08:46 AM |
| Delivery Period: | 30 Day/s | Closing Date / Time | 22/04/2024 17:00 PM |
| Client Agency: | | | |
| Contact Person: | MARK LESTER A MAGPANTAY Head, BAC Secretariat Alcate Victoria Oriental Mindoro Philippines 5205 63-9-154612960 macmagpantay@minsu.edu.ph | | |

Description

Lot 1 – Office Supplies
 reams Long Bond Paper (Substance 20) 200
 reams A4 Bond Paper (Substance 20) 200
 box Staple Wire #35 30
 pcs Blue Sign pen (Hi-Techpoint) 30
 set Ink Bottle Set (Bt 5000, Bt D60) 25
 pcs Ink Bottle Set (Bk 005/005S) 30
 set Manual Crack Pencil Sharpener (Heavy Duty) 2
 pcs 8 Inches Stainless Steel Scissor (Heavy Duty) 5
 set Ring Binding Machine (Heavy Duty) 2
 pcs Wooden Clipboard (Long) 40
 pcs Certificate Holder (A4) 50
 pcs Packaging Tape (2") 31
 pcs Wyeboard Marker (Black) 20
 pcs Wyeboard Marker (Blue) 20
 set Wyeboard Marker Refill Ink (Black) 40
 set Wyeboard Marker Refill Ink (Blue) 30
 reams White Folder (Long) 100pcs 5
 pcs White Glue 130 MI 35
 pcs Office Heavy Duty Puncher (Big) 5
 reams High Glossy Photo Paper A4 5
 pcs Scotch Tape 1 inch 25
 pcs Scotch Tape ½ Inch 16
 reams Laminating Film (Long) 1
 reams Laminating Film (Short) 1
 reams Laminating Film (A4) 1
 set Heavy Duty laminator Machine 1
 set Colored Sticky Tabs 50
 set Tape Dispenser Size For 2" Tape 4
 reams Vellum Board (A4) 100 pcs/ream 5
 pcs Black Ring Binder (.5 inch) 25

pcs Black Ring Binder (1 inch) 25
 pcs Black Ring Binder (1.5 inch) 25
 pcs Black Ring Binder (2 inch) 25
 box Clamp Binder clip 1" (100pcs) 4
 box Clamp Binder clip 2" (100pcs) 4
 pcs Expanding Plastic Envelope with Handle 30
 Lot 2 – Communication Expenses
 Unit Wifi Router and antenna with base 1
 - Electronic phased array (antenna)
 -100° field of view
 -Motorized Self Orienting
 -2.9 kg (6.4 lbs) without cable 3.6 kg (7.9 lbs) with 15.2 m (50 ft) cable (dish weight)
 -IP54,-30°C to 50°C (-22°F to 122°F)
 -Operational: 80kph+ (50 mph+) (Wind Speed)
 -Up to 40 mm / hour (1.5 in/hour)
 -Average: 50-75 W power consumption
 -802.11ac Dual Band, Wi-Fi 5
 -Dual Band -3 x 3 MIMO
 -1 kg (2.2 lbs) , WPA2
 -Up to 185 m2 (2000 ft2)
 *Varies on placement, interface, and building materials
 -IP54-Configured for Indoor Use
 -White LED / Base of Router
 -Compatible with up to 12 Starlink Nodes
 -Connect up to 128 devices
 month Monthly Internet Subscription 12
 Lot 3 – ICT Equipment
 unit Desktop 4
 -Intel Core i7 6th gen. processor
 -1151 h110 motherboard
 -8gb ram ddr4 , 120gb ssd
 -500gb hdd , gtx1060 6gb
 -192 bit ddr5 videocard
 750watts power supply
 -m2 tempered case , 3pcs rgb led fan
 -24inches ips viewpoint wide led monitor
 -stx200rgb kb and mouse
 unit A3 Printer 1
 -Print, Scan, Copy, Fax with ADF
 -Cassette: 250 sheets for A4 Plain Paper (80g/m2), 20 sheets for Premium Glossy Photo Paper
 Rearslot:20 sheets for A3+ Plain Paper (80g/m2), 30 sheets for A4 Plain Paper (80g/m2), 20 sheets for Premium Glossy Photopaper
 A3, A3+, Super B, USB (11 x 17"), Legal Indian Legal, Letter, A4, 16K(195x270mm), 8K (270 x 390mm), Executive, B4,B5, A5, B6, A6 Hagaki (100x148mm), Mexico-Officio, 8.5 x 13", Offico9, Half-Letter, 5 x 7",4 x 6", 8 x 10", 11 x 14", 16:9 wide, Envelopes: #10, DL,C6, C4498 x 358 x 245mm
 pcs Handheld GPS Navigator 4
 -Enhancement Memory and Resolution
 - 2.2 inch Color Display
 -Water Resistant
 -Large 3.7 GB of Internal memory
 And microSD card slot lets you load A variety of maps, including TOPO 24K, HuntView, BlueChart g2, City Navigator NT and BirdsEye Satellite Imagery
 unit Wireless Projector 1
 -1024 x 768 with 3800 Lumes and 12000 Hours ECO
 pcs 2 TB external hard drive 3
 unit Uninterruptible Power Supply 2
 -650 VA
 220 VAC input voltage, 50-60 Hz
 -Sine wave under main supply
 -Intelligent battery management
 Lot 4 – Semi Furniture & Fixtures
 unit Full Glass Sliding Door Cabinet 3
 -120 x 60 x 200 cm (LxWxH)
 -Filling cabinet with sliding glass doors
 -Adjustable Shelves Storage
 -High Cabinet with lock
 unit Aluminum Cabinet and Organizer 3
 -120 x 60 x 200 cm (LxWxH)
 -Filling Cabinet with swing metal doors

- Materials: cold rolled steel plate (SPCC)
- Finish: Electrostatic Powder Coating
- Steel Thickness: 0.6mm
- Inner Parts: 4 shelves lock with 2 keys
- unit Office Chairs 10
- Glossy Black Nylon Base, Twin Casters
- Leatherette, L665xW675xH1198-1298mm
- 25.00 kgs
- Unit Mobile Pedestal Flush-Type 10
- 40 x 56 x 65 cm
- 3 drawer steel cabinet
- central locking system
- Gauge 22
- unit Office Modular Twin Work Station 10
- dimension for cubicle is 60cm by 150cm,
- and the panel height is 120 cm.

Pre-bid Conference

| Date | Time | Venue |
|------------|-------------|---------|
| 11/04/2024 | 10:00:00 AM | Virtual |

| |
|---------|
| Remarks |
|---------|

issued to clarify the specifications of the selected items in the furniture.

Created by Annabelle Quinto Madrigal

Date Created 03/04/2024

The PhilGEPS team is not responsible for any typographical errors or misinformation presented in the system. PhilGEPS only displays information provided for by its clients, and any queries regarding the postings should be directed to the contact person/s of the concerned party.

Standard Form Number: SF-GOOD-01
Revised on: May 24, 2004

APPROVED BUDGET FOR THE CONTRACT (ABC)

Supply and Delivery of Office Supplies, Communication Expenses, ICT Equipment and Furniture & Fixtures for the MAMI Project of Minsu
Alcate, Victoria, Oriental Mindoro
Project Name and Location

Stations: Mindoro State University

Length:

Contract Duration:

| ITEM NO. | DESCRIPTION | QUANTITY | UNIT | CURRENT MARKET PRICE | TOTAL COST | VAT, OTHER TAXES AND/OR DUTIES APPLICABLE | FREIGHT & INSURANCE | OTHER INDIRECT COSTS | OTHER COST FACTORS | | | | TOTAL COST | UNIT COST |
|----------|---|----------|-------|----------------------|------------|---|---------------------|----------------------|---------------------|---------|-------|---------------------|------------|-----------|
| | | | | | | | | | INFLATION, CURRENCY | | VALUE | INFLATION, CURRENCY | | |
| | | | | | | | | | % | (10) | | % | (11) | |
| | | | | | | | | | % | (5)X(9) | | % | (5)X(9) | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | | |
| | Lot 1 - Office Supplies | | | | - | | | | | | | | | |
| 1 | Long Bond Paper (Substance 20) | 200 | reams | 275.00 | 55,000.00 | | | | | | | | | |
| 2 | A4 Bond Paper (Substance 20) | 200 | reams | 250.00 | 50,000.00 | | | | | | | | | |
| 3 | Staple Wire #35 | 30 | box | 45.00 | 1,350.00 | | | | | | | | | |
| 4 | Blue Sign Pen (Hi-Techpoint) | 30 | pcs | 75.00 | 2,250.00 | | | | | | | | | |
| 5 | Ink Bottle Set (Bt 5000, Bt D60) | 25 | set | 2,000.00 | 50,000.00 | | | | | | | | | |
| 6 | Ink Bottle Set (Bk 005/005S) | 30 | pcs | 600.00 | 18,000.00 | | | | | | | | | |
| 7 | Manual Crank Pencil Sharpener (Heavy Duty) | 2 | pcs | 455.00 | 910.00 | | | | | | | | | |
| 8 | 8 Inches Stainless Steel Scissor (Heavy Duty) | 5 | pcs | 200.00 | 1,000.00 | | | | | | | | | |
| 9 | Ring Binding Machine (Heavy Duty) | 2 | set | 5,500.00 | 11,000.00 | | | | | | | | | |
| 10 | Wooden Clipboard (Long) | 40 | pcs | 150.00 | 6,000.00 | | | | | | | | | |
| 11 | Certificate Holder (A4) | 50 | pcs | 100.00 | 5,000.00 | | | | | | | | | |
| 12 | Packaging Tape (2") | 31 | pcs | 55.00 | 1,705.00 | | | | | | | | | |
| 13 | Wyteboard Marker (Black) | 20 | pcs | 75.00 | 1,500.00 | | | | | | | | | |
| 14 | Wyteboard Marker (Blue) | 20 | pcs | 75.00 | 1,500.00 | | | | | | | | | |
| 15 | Wyteboard Marker Refill Ink (Black) | 40 | set | 150.00 | 6,000.00 | | | | | | | | | |
| 16 | Wyteboard Marker Refill Ink (Blue) | 30 | set | 150.00 | 4,500.00 | | | | | | | | | |
| 17 | White Folder (Long) 100Pcs | 5 | reams | 450.00 | 2,250.00 | | | | | | | | | |
| 18 | White Glue 130 MI | 35 | pcs | 60.00 | 2,100.00 | | | | | | | | | |
| 19 | Office Heavy Duty Puncher (Big) | 5 | pcs | 200.00 | 1,000.00 | | | | | | | | | |
| 20 | High Glossy Photo Paper A4 | 5 | reams | 200.00 | 1,000.00 | | | | | | | | | |
| 21 | Scotch Tape 1 Inch | 25 | pcs | 25.00 | 625.00 | | | | | | | | | |
| 22 | Scotch Tape ½ Inch | 16 | pcs | 20.00 | 320.00 | | | | | | | | | |
| 23 | Laminating Film (Long) | 1 | reams | 800.00 | 800.00 | | | | | | | | | |
| 24 | Laminating Film (Short) | 1 | reams | 750.00 | 750.00 | | | | | | | | | |
| 25 | Laminating Film (A4) | 1 | reams | 700.00 | 700.00 | | | | | | | | | |
| 26 | Heavy Duty Laminator Machine | 1 | set | 5,000.00 | 5,000.00 | | | | | | | | | |
| 27 | Colored Sticky Tabs | 50 | set | 50.00 | 2,500.00 | | | | | | | | | |

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Standard Form Number: SF-GOOD-01
Revised on: May 24, 2004

APPROVED BUDGET FOR THE CONTRACT (ABC)

Supply and Delivery of Office Supplies, Communication Expenses, ICT Equipment and Furniture & Fixtures for the MAMI Project of MinSU
Alcate, Victoria, Oriental Mindoro
Project Name and Location

Stations: Mindoro State University

Length:

Contract Duration:

| ITEM NO. | DESCRIPTION | QUANTITY | UNIT | CURRENT MARKET PRICE | TOTAL COST | VAT, OTHER TAXES AND/OR DUTIES APPLICABLE | FREIGHT & INSURANCE | OTHER INDIRECT COSTS | OTHER COST FACTORS | | | | TOTAL COST | UNIT COST | |
|----------|---|----------|-------|----------------------|------------|---|---------------------|----------------------|---------------------|------|-------|---------------------|------------|-----------|------|
| | | | | | | | | | INFLATION, CURRENCY | | VALUE | INFLATION, CURRENCY | | | |
| | | | | | | | | | % | (10) | | (11) | | | (12) |
| | | | | | | | | | | | | | | | |
| | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | | (10) | (11) | (12) | | (13) | |
| (1) | | | | | | | | | | | | | | | |
| | Lot 1 - Office Supplies | | | | - | | | | | | | | | | |
| 1 | Long Bond Paper (Substance 20) | 200 | reams | 275.00 | 55,000.00 | | | | | | | | | | |
| 2 | A4 Bond Paper (Substance 20) | 200 | reams | 250.00 | 50,000.00 | | | | | | | | | | |
| 3 | Staple Wire #35 | 30 | box | 45.00 | 1,350.00 | | | | | | | | | | |
| 4 | Blue Sign Pen (Hi-Techpoint) | 30 | pcs | 75.00 | 2,250.00 | | | | | | | | | | |
| 5 | Ink Bottle Set (Bt 5000, Bt D60) | 25 | set | 2,000.00 | 50,000.00 | | | | | | | | | | |
| 6 | Ink Bottle Set (Bk 005/005S) | 30 | pcs | 600.00 | 18,000.00 | | | | | | | | | | |
| 7 | Manual Crank Pencil Sharpener (Heavy Duty) | 2 | pcs | 455.00 | 910.00 | | | | | | | | | | |
| 8 | 8 Inches Stainless Steel Scissor (Heavy Duty) | 5 | pcs | 200.00 | 1,000.00 | | | | | | | | | | |
| 9 | Ring Binding Machine (Heavy Duty) | 2 | set | 5,500.00 | 11,000.00 | | | | | | | | | | |
| 10 | Wooden Clipboard (Long) | 40 | pcs | 150.00 | 6,000.00 | | | | | | | | | | |
| 11 | Certificate Holder (A4) | 50 | pcs | 100.00 | 5,000.00 | | | | | | | | | | |
| 12 | Packaging Tape (2") | 31 | pcs | 55.00 | 1,705.00 | | | | | | | | | | |
| 13 | Wyeboard Marker (Black) | 20 | pcs | 75.00 | 1,500.00 | | | | | | | | | | |
| 14 | Wyeboard Marker (Blue) | 20 | pcs | 75.00 | 1,500.00 | | | | | | | | | | |
| 15 | Wyeboard Marker Refill Ink (Black) | 40 | set | 150.00 | 6,000.00 | | | | | | | | | | |
| 16 | Wyeboard Marker Refill Ink (Blue) | 30 | set | 150.00 | 4,500.00 | | | | | | | | | | |
| 17 | White Folder (Long) 100Pcs | 5 | reams | 450.00 | 2,250.00 | | | | | | | | | | |
| 18 | White Glue 130 MI | 35 | pcs | 60.00 | 2,100.00 | | | | | | | | | | |
| 19 | Office Heavy Duty Puncher (Big) | 5 | pcs | 200.00 | 1,000.00 | | | | | | | | | | |
| 20 | High Glossy Photo Paper A4 | 5 | reams | 200.00 | 1,000.00 | | | | | | | | | | |
| 21 | Scotch Tape 1 Inch | 25 | pcs | 25.00 | 625.00 | | | | | | | | | | |
| 22 | Scotch Tape ½ Inch | 16 | pcs | 20.00 | 320.00 | | | | | | | | | | |
| 23 | Laminating Film (Long) | 1 | reams | 800.00 | 800.00 | | | | | | | | | | |
| 24 | Laminating Film (Short) | 1 | reams | 750.00 | 750.00 | | | | | | | | | | |
| 25 | Laminating Film (A4) | 1 | reams | 700.00 | 700.00 | | | | | | | | | | |
| 26 | Heavy Duty Laminator Machine | 1 | set | 5,000.00 | 5,000.00 | | | | | | | | | | |
| 27 | Colored Sticky Tabs | 50 | set | 50.00 | 2,500.00 | | | | | | | | | | |

404

[illegible]

Standard Form Number: SF-GOOD-01
Revised on: May 24, 2004

APPROVED BUDGET FOR THE CONTRACT (ABC)

Supply and Delivery of Office Supplies, Communication Expenses, ICT Equipment and Furniture & Fixtures for the MAMI Project of MinSU
Alcate, Victoria, Oriental Mindoro
Project Name and Location

Stations: Mindoro State University

Length:

| Contract Duration: | | | | | | | | | | | | | | | |
|--------------------|-------------|----------|------|----------------------|------------|---|---------------------|----------------------|---------------------|---------------------|-------|-------|--|------------|-----------|
| ITEM NO. | DESCRIPTION | QUANTITY | UNIT | CURRENT MARKET PRICE | TOTAL COST | VAT, OTHER TAXES AND/OR DUTIES APPLICABLE | FREIGHT & INSURANCE | OTHER INDIRECT COSTS | OTHER COST FACTORS | | | | | TOTAL COST | UNIT COST |
| | | | | | | | | | INFLATION, CURRENCY | | | VALUE | | | |
| | | | | | | | | | % | INFLATION, CURRENCY | VALUE | | | | |
| | | | | | | | | | % | INFLATION, CURRENCY | VALUE | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | | | |
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| 28 | Tape Dispenser Size For 2" Tape | 4 | set | 200.00 | 800.00 | | | | |
| 29 | Vellum Board (A4) 100 Pcs/Ream | 5 | reams | 200.00 | 1,000.00 | | | | |
| 30 | Black Ring binder (.5 inch | 25 | Pcs | 50.00 | 1,250.00 | | | | |
| 31 | Black Ring binder (1 inch) | 25 | Pcs | 50.00 | 1,250.00 | | | | |
| 32 | Black Ring binder (1.5 inch) | 25 | Pcs | 50.00 | 1,250.00 | | | | |
| 33 | Black Ring binder (2 inch) | 25 | pcs | 50.00 | 1,250.00 | | | | |
| 34 | Clamp binder clip 1" (100pcs) | 4 | box | 400.00 | 1,600.00 | | | | |
| 35 | Clamp binder clip 2" (100pcs) | 4 | box | 500.00 | 2,000.00 | | | | |
| 36 | Expanding plastic envelope with handle | 30 | pcs | 100.00 | 3,000.00 | | | | |
| | sub-total lot 1 | | | | 246,160.00 | | | | |
| | Lot 2 - Communication Expenses | | | | - | | | | |
| 1 | Wifi Router and antenna with base | 1 | unit | 28,000.00 | 28,000.00 | | | | |
| | -Electronic Phased Array (antenna) | | | | - | | | | |
| | - 100° field of view | | | | - | | | | |
| | - Motorized Self Orienting | | | | - | | | | |
| | - 2.9 kg (6.4 lbs) without Cable 3.6 kg (7.9 lbs) with 15.2 m (50 ft) Cable (dish weight) | | | | - | | | | |
| | - IP54, -30°C to 50°C (-22°F to 122°F) | | | | - | | | | |
| | - Operational: 80 kph+ (50 mph+) (wind speed) | | | | - | | | | |
| | - Up to 40 mm / hour (1.5 in / hour) | | | | - | | | | |
| | - Average: 50-75 W power consumption | | | | - | | | | |
| | -802.11ac Dual Band , Wi-Fi 5 | | | | - | | | | |
| | -Dual Band -3 x 3 MIMO | | | | - | | | | |
| | -1 kg (2.2 lbs) , WPA2 | | | | - | | | | |
| | - Up to 185 m² (2000 ft²) | | | | - | | | | |
| | *Varies on placement, interference, and building materials | | | | - | | | | |
| | - IP54 - Configured for Indoor Use | | | | - | | | | |
| | - White LED / Base of Router | | | | - | | | | |
| | - Compatible with up to 12 Starlink Nodes | | | | - | | | | |
| | - Connect up to 128 devices | | | | - | | | | |
| 2 | Monthly Internet Subscription | 12 | month | 3,500.00 | 42,000.00 | | | | |
| | sub-total lot 2 | | | | 70,000.00 | | | | |
| | Lot 3 - ICT Equipment | | | | - | | | | |
| 1 | Desktop | 4 | unit | 48,000.00 | 192,000.00 | | | | |
| | - Intel core i7 6th gen. processor | | | | - | | | | |
| | -1151 h110 motherboard | | | | - | | | | |
| | - 8gb ram ddr4 , 120gb ssd | | | | - | | | | |
| | -500gb hdd , glx1060 6gb | | | | - | | | | |
| | -192 bit ddr5 videocard | | | | - | | | | |
| | - 750watts power supply | | | | - | | | | |
| | - m2 tempered case , 3pcs rgb led fan | | | | - | | | | |
| | - 24inches ips viewpoint wide led monitor | | | | - | | | | |



MINDORO STATE UNIVERSITY
Main Campus
Alcate, Victoria, Oriental Mindoro



PURCHASE REQUEST

Fund Cluster:

| Office/Section : | | PR No.: PR24-0090 | | Date: February 28, 2024 | |
|--------------------------------|-------|---|---------------|-------------------------|-------------------|
| Accounting | | Responsibility Center Code : | | | |
| Stock/ Property No. | Unit | Item Description | Qty | Unit Cost | Total Cost |
| Lot 1 - Office Supplies | | | | | |
| 1 | reams | Long Bond Paper (Substance 20) | 200 | 275.00 | 55,000.00 |
| 2 | reams | A4 Bond Paper (Substance 20) | 200 | 250.00 | 50,000.00 |
| 3 | box | Staple Wire #35 | 30 | 45.00 | 1,350.00 |
| 4 | pcs | Blue Sign Pen (Hi-Techpoint) | 30 | 75.00 | 2,250.00 |
| 5 | set | Ink Bottle Set (Bt 5000, Bt D60) | 25 | 2,000.00 | 50,000.00 |
| 6 | pcs | Ink Bottle Set (Bk 005/005S) | 30 | 600.00 | 18,000.00 |
| 7 | pcs | Manual Crank Pencil Sharpener (Heavy Duty) | 2 | 455.00 | 910.00 |
| 8 | pcs | 8 Inches Stainless Steel Scissor (Heavy Duty) | 5 | 200.00 | 1,000.00 |
| 9 | set | Ring Binding Machine (Heavy Duty) | 2 | 5,500.00 | 11,000.00 |
| 10 | pcs | Wooden Clipboard (Long) | 40 | 150.00 | 6,000.00 |
| 11 | pcs | Certificate Holder (A4) | 50 | 100.00 | 5,000.00 |
| 12 | pcs | Packaging Tape (2") | 31 | 55.00 | 1,705.00 |
| 13 | pcs | Wyeboard Marker (Black) | 20 | 75.00 | 1,500.00 |
| 14 | pcs | Wyeboard Marker (Blue) | 20 | 75.00 | 1,500.00 |
| 15 | set | Wyeboard Marker Refill Ink (Black) | 40 | 150.00 | 6,000.00 |
| 16 | set | Wyeboard Marker Refill Ink (Blue) | 30 | 150.00 | 4,500.00 |
| 17 | reams | White Folder (Long) 100Pcs | 5 | 450.00 | 2,250.00 |
| 18 | pcs | White Glue 130 MI | 35 | 60.00 | 2,100.00 |
| 19 | pcs | Office Heavy Duty Puncher (Big) | 5 | 200.00 | 1,000.00 |
| 20 | reams | High Glossy Photo Paper A4 | 5 | 200.00 | 1,000.00 |
| 21 | pcs | Scotch Tape 1 Inch | 25 | 25.00 | 625.00 |
| 22 | pcs | Scotch Tape 1/2 Inch | 16 | 20.00 | 320.00 |
| 23 | reams | Laminating Film (Long) | 1 | 800.00 | 800.00 |
| 24 | reams | Laminating Film (Short) | 1 | 750.00 | 750.00 |
| 25 | reams | Laminating Film (A4) | 1 | 700.00 | 700.00 |
| 26 | set | Heavy Duty Laminator Machine | 1 | 5,000.00 | 5,000.00 |
| 27 | set | Colored Sticky Tabs | 50 | 50.00 | 2,500.00 |
| 28 | set | Tape Dispenser Size For 2" Tape | 4 | 200.00 | 800.00 |
| 29 | reams | Vellum Board (A4) 100 Pcs/Ream | 5 | 200.00 | 1,000.00 |
| 30 | Pcs | Black Ring binder (.5 inch) | 25 | 50.00 | 1,250.00 |
| 31 | Pcs | Black Ring binder (1 inch) | 25 | 50.00 | 1,250.00 |
| Sub- Total 1 | | | 61,640 | | 237,060.00 |

Purpose : Office Supplies, ICT equipments, Furniture & Fixtures and Communication Expenses for the project entitled, "Level of Mechanization in Oriental Mindoro using MAMI project

| | | | | | |
|----------------|--|-------------------------------------|--|---|-------------------------------------|
| Requested by: | | Recommending Approval: | | Certified: | Approved by: |
| Signature : | | | | Allotment Available | |
| Printed Name : | | CHRISTIAN ANTHONY C. AGUTAYA, Ph.D. | | ROVELYN P. ROXAS | CHRISTIAN ANTHONY C. AGUTAYA, Ph.D. |
| Designation | | Project Leader | | SAO-Finance Division/ Acting Budget Officer III | OIC - University President |



MINDORO STATE UNIVERSITY
Main Campus
Alcate, Victoria, Oriental Mindoro



PURCHASE REQUEST

Fund Cluster:

| Office/Section : Accounting | | PR No.: <u>PR24-0090</u> | | Date: February 28, 2024 | |
|--------------------------------|-------|---|-----|-------------------------|------------------|
| | | Responsibility Center Code : | | | |
| Stock/ Property No. | Unit | Item Description | Qty | Unit Cost | Total Cost |
| 32 | Pcs | Black Ring binder (1.5 inch) | 25 | 50.00 | 1,250.00 |
| 33 | pcs | Black Ring binder (2 inch) | 25 | 50.00 | 1,250.00 |
| 34 | box | Clamp binder clip 1" (100pcs) | 4 | 400.00 | 1,600.00 |
| 35 | box | Clamp binder clip 2" (100pcs) | 4 | 500.00 | 2,000.00 |
| 36 | pcs | Expanding plastic envelope with handle | 30 | 100.00 | 3,000.00 |
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| | | Lot 2 - Communication Expenses | | | |
| | | | | | |
| | unit | Wifi Router and antenna with base | 1 | 28,000.00 | 28,000.00 |
| | | - Electronic Phased Array (antenna) | | | |
| | | - 100° field of view | | | |
| | | - Motorized Self Orienting | | | |
| | | - 2.9 kg (6.4 lbs) without Cable 3.6 kg (7.9 lbs) with 15.2 m (50 ft) Cable (dish weight) | | | |
| | | - IP54, -30°C to 50°C (-22°F to 122°F) | | | |
| | | - Operational: 80 kph+ (50 mph+) (wind speed) | | | |
| | | - Up to 40 mm / hour (1.5 in / hour) | | | |
| | | - Average: 50-75 W power consumption | | | |
| | | - 802.11ac Dual Band , Wi-Fi 5 | | | |
| | | - Dual Band -3 x 3 MIMO | | | |
| | | - 1 kg (2.2 lbs) , WPA2 | | | |
| | | - Up to 185 m² (2000 ft²) | | | |
| | | *Varies on placement, interference, and building materials | | | |
| | | - IP54 - Configured for Indoor Use | | | |
| | | - White LED / Base of Router | | | |
| | | - Compatible with up to 12 Starlink Nodes | | | |
| | | - Connect up to 128 devices | | | - |
| 1/ | month | Monthly Internet Subscription | 12 | 3,500.00 | 42,000.00 |
| | | | | MDS-14-7 | |
| | | | | 101-200-011UB | |
| | | Sub- Total 2 | | | 79,100.00 |

Purpose : Office Supplies, ICT equipments, Furniture & Fixtures and Communication Expenses for the project entitled, "Level of Mechanization in Oriental Mindoro using MAMI project

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|----------------|--|-------------------------------------|--|---|--|-------------------------------------|--|
| Requested by: | | Recommending Approval: | | Certified: | | Approved by: | |
| Signature : | | | | Allotment Available | | | |
| Printed Name : | | CHRISTIAN ANTHONY C. AGUTAYA, Ph.D. | | ROVELYN P. ROXAS | | CHRISTIAN ANTHONY C. AGUTAYA, Ph.D. | |
| Designation | | Project Leader | | SAO-Finance Division/ Acting Budget Officer III | | OIC - University President | |



MINDORO STATE UNIVERSITY
Main Campus
Alcate, Victoria, Oriental Mindoro



PURCHASE REQUEST

Fund Cluster:

| Office/Section : Accounting | | PR No.: <u>PR24-0090</u> Responsibility Center Code : | | Date: February 28, 2024 | |
|--------------------------------|------|--|-----|-------------------------|-------------------|
| Stock/ Property No. | Unit | Item Description | Qty | Unit Cost | Total Cost |
| | | Lot 3 - ICT Equipment | | | |
| 1 | unit | Desktop | 4 | 48,000.00 | 192,000.00 |
| | | - Intel core i7 6th gen. processor | | | |
| | | -1151 h110 motherboard | | | |
| | | - 8gb ram ddr4 , 120gb ssd | | | |
| | | -500gb hdd , gtx1060 6gb | | | |
| | | -192 bit ddr5 videocard | | | |
| | | - 750watts power supply | | | |
| | | - m2 tempered case , 3pcs rgb led fan | | | |
| | | - 24inches ips viewpoint wide led monitor | | | |
| | | - stx200rgb kb and mouse | | | |
| 2 | unit | A3 Printer | 1 | 40,000.00 | 40,000.00 |
| | | -Print, Scan, Copy, Fax with ADF | | | |
| | | -Cassette: 250 sheets for A4 Plain paper | | | |
| | | (80g/m2), 20 sheets for Premium Glossy | | | |
| | | Photo Paper | | | |
| | | Rear Slot: 20 sheets for A3+ | | | |
| | | Plain Paper (80 g/m2) | | | |
| | | 30 sheets for A4 Plain paper (80 g/m2), | | | |
| | | 20 sheets for Premium Glossy PhotoPaper | | | |
| | | A3, A3+, Super B, USB (11 x 17"),Legal | | | |
| | | Indian Legal, Letter, | | | |
| | | A4,16K(195x270mm),8K(270x390mm), | | | |
| | | Executive, B4,B5,A5,B6,A6, | | | |
| | | Hagaki(100x148mm),Mexico-Oficio, 8.5 x 13", | | | |
| | | Offico9, Half-Letter, 5 x 7", 4 x 6", 8 x 10", | | | |
| | | 11 x 14", 16:9 wide, Envelopes: #10, | | | |
| | | DL, C6, C4498 x 358 x 245mm | | | |
| 3 | pcs | Handheld GPS Navigator | 4 | 30,000.00 | 120,000.00 |
| | | - Enhanced Memory and Resolution | | | |
| | | - 2.2-inch Color Display | | | |
| | | - Water Resistant | | | |
| | | Sub - total 3 | | 01646 | 352,000.00 |

Purpose : Office Supplies, ICT equipments, Furniture & Fixtures and Communication Expenses for the project entitled, "Level of Mechanization in Oriental Mindoro using MAMI project

| | | | |
|----------------|---------------------------|---|-------------------------------------|
| Requested by: | Recommending Approval: | Certified: | Approved by: |
| | | | |
| Signature : | | | |
| Printed Name : | ENGR.MARK KEYLORD S. ONAL | ROVELYN P. ROXAS | CHRISTIAN ANTHONY C. AGUTAYA, Ph.D. |
| Designation : | Project Leader | SAO-Finance Division/ Acting Budget Officer III | OIC - University President |



MINDORO STATE UNIVERSITY
Main Campus
Alcate, Victoria, Oriental Mindoro



PURCHASE REQUEST

Fund Cluster:

| Office/Section : Accounting | | PR No.: <u>PR 24-0090</u> Responsibility Center Code : | | Date: February 28, 2024 | |
|--------------------------------|------|---|-----|-------------------------|------------|
| Stock/ Property No. | Unit | Item Description | Qty | Unit Cost | Total Cost |
| | | -Large 3.7 GB of internal memory and microSD card slot lets you load a variety of maps, including TOPO 24K, HuntView, BlueChart g2, City Navigator NT and BirdsEye Satellite Imagery | | | |
| <u>4</u> | unit | Wireless Projector | 1 | 40,000.00 | 40,000.00 |
| | | - 1024 x 768 with 3800 Lumens and 12000 Hours ECO | | | |
| <u>5</u> | pcs | 2 TB external hard drive | 3 | 3,000.00 | 9,000.00 |
| <u>6</u> | unit | Uninterruptible Power Supply | 2 | 8,500.00 | 17,000.00 |
| | | - 650 VA 220 VAC input voltage , 50-60 Hz -Sine wave under main supply -Intelligent battery management | | | |
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| | | Lot 4 - Semi Furniture & Fixtures | | | |
| <u>1</u> | unit | Full Glass Sliding Door Cabinet | 3 | 35,000.00 | 105,000.00 |
| | | - 120 x 60 x 200 cm (LxWxH) - Filing cabinet with sliding glass doors - Adjustable Shelves Storage - High Cabinet with lock | | | |
| <u>2</u> | unit | Aluminum Cabinet and Organizer | 3 | 35,000.00 | 105,000.00 |
| | | - 120 x 60 x 200 cm (LxWxH) - Filing cabinet with swing metal doors - Material: cold rolled steel plate (SPCC) - Finish: Electrostatic Powder Coating - Steel Thickness: 0.6mm - Inner parts: 4 shelves Lock with 2 keys | | | |
| | | Sub-total 4 | | | 276,000.00 |

Purpose : Office Supplies, ICT equipments, Furniture & Fixtures and Communication Expenses for the project entitled,
"Level of Mechanization in Oriental Mindoro using MAMI project

| | | | | |
|-------------|--|--|---|---|
| Signature : | Requested by: | Recommending Approval: | Certified: | Approved by: |
| | ENGR. MARK KEYLORD S. ONAL Project Leader | CHRISTIAN ANTHONY C. AGUTAYA, Ph.D. VPRDE | ROVELYN P. ROXAS SAO-Finance Division/ Acting Budget Officer III | CHRISTIAN ANTHONY C. AGUTAYA, Ph.D. OIC - University President |

PURCHASE REQUEST

Fund Cluster:

| Stock/Section : Accounting | | PR No.: PR24-0090 Responsibility Center Code : | | Date: February 28, 2024 | |
|-------------------------------|------|---|-----|-------------------------|------------|
| Stock/ Property No. | Unit | Item Description | Qty | Unit Cost | Total Cost |
| 2 | unit | Office Chairs | 10 | 7,920.00 | 79,200.00 |
| | | -Glosy Black Nylon Base, Twin Casters | | | |
| | | Leatherette, L665xW675xH1198-1298mm | | | |
| | | 25.00 kgs | | | |
| 4 | unit | Mobile Pedestal Flush-type | 10 | 9,300.00 | 93,000.00 |
| | | - 40 x 56 x 65 cm | | | |
| | | - 3 drawer steel cabinet | | | |
| | | - central locking system | | | |
| | | - Gauge 22 | | | |
| 5 | unit | Office Modular Twin Work Station | 10 | 48,390.00 | 483,900.00 |
| | | - dimension for a cubicle is 60cm by 150cm, | | | |
| | | and the panel height is 120 cm. | | | |
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| | | Sub-Total 5 | | | 656,100.00 |
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| | | Sub-total 1 | | | 237,060.00 |
| | | Sub-total 2 | | | 79,100.00 |
| | | Sub-total 3 | | | 352,000.00 |
| | | Sub-total 4 | | | 276,000.00 |
| | | Sub-total 5 | | | 656,100.00 |
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Purpose : Office Supplies, ICT equipments, Furniture & Fixtures and Communication Expenses for the project entitled, "Level of Mechanization in Oriental Mindoro using MAMi project

| | | | |
|----------------|------------------------|---------------------|--------------|
| Requested by: | Recommending Approval: | Certified: | Approved by: |
| Signature : | | Allotment Available | |
| Printed Name : | | | |
| Designation | | | |



| | | | | |
|-------|--|-----|------------------|---------------------|
| unit | • Wired / Wireless Projector with 1024 x 768 with 3800 Lumes and 12000 Hours ECO | 1 | 40,000.00 | 40,000.00 |
| | | | Sub total | 1,284,100.00 |
| | • Office Supplies | | | |
| reams | 200 reams long bond paper (substance 20) | 200 | 275.00 | 55,000.00 |
| reams | 200 reams A4 bond paper (substance 20) | 200 | 250.00 | 50,000.00 |
| box | 30 box Staple wire #35 | 30 | 45.00 | 1,350.00 |
| pcs | 30 pcs blue sign pen (hi-TechPoint) | 30 | 75.00 | 2,250.00 |
| set | 25 sets ink bottle set (BT 5000, BT D60) for printer | 25 | 2,000.00 | 50,000.00 |
| pcs | 30 sets ink bottle set (BK 005/005S) for printer | 30 | 600.00 | 18,000.00 |
| pcs | 2 pcs manual crank pencil sharpener (heavy duty) | 2 | 455.00 | 910.00 |
| pcs | 5 pcs 8 inches stainless steel scissor (heavy duty) | 5 | 200.00 | 1,000.00 |
| set | 1 set ring binding machine (heavy duty) | 1 | 5,500.00 | 5,500.00 |
| pcs | 20 pcs wooden clipboard (long) | 40 | 150.00 | 6,000.00 |
| pcs | Certificate holder (A4) | 50 | 100.00 | 5,000.00 |
| pcs | Packaging tape (2") | 31 | 55.00 | 1,705.00 |
| pcs | Wyteboard marker (black) | 20 | 75.00 | 1,500.00 |
| pcs | Wyteboard marker (blue) | 20 | 75.00 | 1,500.00 |
| set | Wyteboard marker refill ink (black) | 40 | 150.00 | 6,000.00 |
| set | Wyteboard marker refill ink (blue) | 30 | 150.00 | 4,500.00 |
| reams | White folder (Long) 100pcs | 5 | 450.00 | 2,250.00 |
| pcs | white glue 130 mL | 35 | 60.00 | 2,100.00 |
| pcs | Office Heavy Duty Puncher (big) | 5 | 200.00 | 1,000.00 |
| reams | High Glossy Photo Paper A4 (100 pcs/ream) | 5 | 200.00 | 1,000.00 |
| pcs | Scotch tape 1 inch | 25 | 25.00 | 625.00 |
| pcs | Scotch tape ½ inch | 16 | 20.00 | 320.00 |
| reams | Laminating film (long) 100pcs | 1 | 800.00 | 800.00 |
| reams | Laminating film (short) 100pcs | 1 | 750.00 | 750.00 |
| reams | Laminating film (A4) 100pcs | 1 | 700.00 | 700.00 |
| set | Heavy Duty Laminator machine | 1 | 5,000.00 | 5,000.00 |
| set | Colored sticky tabs (100sheets/set) | 50 | 50.00 | 2,500.00 |
| set | Tape dispenser size for 2" tape | 4 | 200.00 | 800.00 |
| reams | Vellum board (A4) 100 pcs/ream | 5 | 200.00 | 1,000.00 |
| set | Ring binder machine (heavy duty) | 1 | 5,500.00 | 5,500.00 |
| Pcs | Black Ring binder (.5 inch) | 25 | 50.00 | 1,250.00 |
| Pcs | Black Ring binder (1 inch) | 25 | 50.00 | 1,250.00 |
| Pcs | Black Ring binder (1.5 inch) | 25 | 50.00 | 1,250.00 |
| pcs | Black Ring binder (2 inch) | 25 | 50.00 | 1,250.00 |
| box | Clamp binder clip 1" (100pcs) | 4 | 400.00 | 1,600.00 |
| box | Clamp binder clip 2" (100pcs) | 4 | 500.00 | 2,000.00 |
| pcs | Expanding plastic envelope with handle | 30 | 100.00 | 3,000.00 |
| | | | Sub total | 246,160.00 |

D. Fuel Expenses

| | | |
|---|----------|-----------|
| Diesel/gasoline for university vehicle (@ Php 2,500/trip) | 30 Trips | 75,000.00 |
|---|----------|-----------|



E. Representation Expenses

| | | |
|---|------------------------|------------|
| Snacks and Meals for Project Meeting | | 46,800.00 |
| Snacks and Meals (snacks and lunch for the respondents @ Php 225 per respondent for 1,452 respondents for both lowland and upland rice ecosystem MAMrice survey plus food for meetings) | Php 225 per respondent | 326,700.00 |

F. Professional Services

| | | |
|--|-----------|---------------------|
| 9 Science Research Assistants with 19,744.00 wages/month | 12 months | 2,132,352.00 |
| 1 Science Research Specialist with 31,320.00 wages/month | 12 months | 375,840.00 |
| Sub total | | 2,508,192.00 |

| | | |
|--|--|----------|
| Pre-consultation meeting @ UPLB (Project Leader) | Day 1 <ul style="list-style-type: none"> • Transportation Cost travelling to Laguna (Php 1,026) • per diem (Php 1,320) Day 2 <ul style="list-style-type: none"> • per diem (Php 2,200) Day 3 <ul style="list-style-type: none"> • Transportation Cost Travelling back to Residence (Php 1,026) • per diem (Php 660) | 6,232.00 |
|--|--|----------|

| | | |
|---|---|-----------|
| Consultation Meetings <ul style="list-style-type: none"> • Three (3) Consultants – 3 engagements Consultation Fee (@ Php 3,000 honorarium / engagement; Php 1,720 transportation allowance round trip) • First Consultation Meeting @ MinSU • Second Consultation Meeting @ MinSU • Third Consultation Meeting @ UPLB | Php 14,160 per consultation meeting with the consultants (Php 4,720 x 3 consultants = Php 14,160) | 42,480.00 |
| Third Consultation Meeting @ UPLB (Project Leader, 2 Study Leader, 4 Science Research Assistants) Breakdown: Day 1 <ul style="list-style-type: none"> • Transportation Cost travelling to Laguna (Php 1,026) • per diem (Php 1,320) Day 2 <ul style="list-style-type: none"> • per diem (Php 2,200) Day 3 <ul style="list-style-type: none"> • Transportation Cost Travelling back to Residence (Php 1,026) • per diem (Php 660) | Php 6,232 (7 persons – Project Leader, 2 Study Leader, 4 Science Research Assistants) | 43,624.00 |



January 31, 2024

CHRISTIAN ANTHONY C. AGUTAYA, PhD
Officer-in-Charge
Office of the University President

| | |
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| MINDORO STATE UNIVERSITY Victoria, Oriental Mindoro, 5205 Philippines | |
| RECEIVED | |
| RECORDS OFFICE | |
| BY: | <i>[Signature]</i> |
| DATE: | 1/31/24 |
| TIME: | 3:19 |
| CONTROL # | 283 |

242

Dear Dr. Agutaya,

Greetings from IABE!

The Institute of Agricultural and Biosystems Engineering (IABE) of Mindoro State University Main Campus proposed a research project entitled **“Level of Mechanization in Oriental Mindoro, Philippines using the Modified Agricultural Mechanization Index (MAMI)”** wherein the primary goal is to establish the level of agricultural mechanization in the province which intends to provide decision makers to have a basis in making well-informed decisions for the acquisition, distribution and utilization/adaption of agricultural mechanization technologies.

In line with this, the project team is requesting to start the project this **February 1, 2024** until **December 31, 2024**. The project has a total budget of **Php 6,370,768** as reflected in the attached project proposal.

May this request merit your kind consideration/approval. Thank you for your continual support to all activities of the Institute of Agricultural and Biosystems Engineering.

Very truly yours,

[Signature]
ENGR. MARK KEYLORD S. ONAL, MSc
OIC-Head, IABE
Project Leader

Recommending Approval:

[Signature]
MACARIO B. MASAGCA, JR., MSc
Director for Research and Development Office

Approved by:

[Signature]
CHRISTIAN ANTHONY C. AGUTAYA, PhD
OIC – Office of the University President



PROJECT PROPOSAL

PROJECT TITLE: LEVEL OF MECHANIZATION IN ORIENTAL MINDORO, PHILIPPINES USING THE MODIFIED AGRICULTURAL MECHANIZATION INDEX (MAM_{rice})

- Study 1:** Determination of the Level of Mechanization for Lowland Rice Ecosystems in Oriental Mindoro, Philippines using the Modified Agricultural Mechanization Index (MAM_{rice})
- Study 2:** Determination of the Level of Mechanization for Upland Rice Ecosystems in Oriental Mindoro, Philippines using the Modified Agricultural Mechanization Index (MAM_{rice})
- Study 3:** GIS Mapping of the Level of Mechanization for Lowland and Upland Rice Ecosystems in Oriental Mindoro, Philippines using the Modified Agricultural Mechanization Index (MAM_{rice})

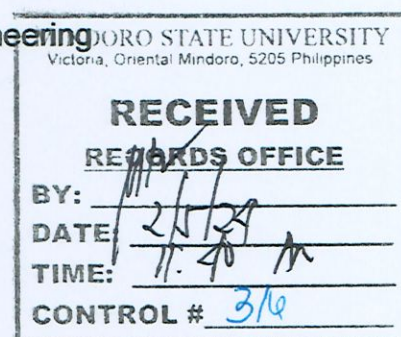
PROPOSER: **ENGR. MARK KEYLORD S. ONAL, MSc (Project Leader)**
Instructor 1 and Institute Head
Institute of Agricultural and Biosystems Engineering
Mindoro State University
Alcate, Victoria, Oriental Mindoro

ENGR. RANDY A. JOCO, MSc (Study Leader)
Instructor 1
Institute of Agricultural and Biosystems Engineering
Mindoro State University
Alcate, Victoria, Oriental Mindoro

ENGR. CHRISTIAN B. HERNANDEZ (Study Leader)
Instructor 1
Institute of Agricultural and Biosystems Engineering
Mindoro State University
Alcate, Victoria, Oriental Mindoro

PROJECT DURATION: 1 year

TOTAL BUDGET: Php 6,370,768.00 (MOOE only)



I. RATIONALE

The intervention on the purposive acceleration on the diffusion, adoption and utilization of Agricultural and Fisheries Mechanization Technologies (AFMTs) has always been one of the major flagship programs of the government as stipulated in Republic Act 10601 otherwise known as the Agricultural and Fisheries Mechanization (AFMech) Law of 2013. For any intervention to succeed, one must determine the level of mechanization of a particular commodity to have an understanding of the intervention to be undertaken. The level of agricultural mechanization has always been the basis of agricultural mechanization intervention for the development of the agricultural and fisheries sector.



The level of mechanization is usually represented by agricultural mechanization index (AMI).

It is imperative that if we want to outrace the demand of food from the ever-growing population, the acceleration of the level of mechanization should be given emphasis. However, there had been no standard methodology in the determination of the level of mechanization. ASEAN countries have different methodologies in arriving at the level of mechanization indicated by AMI. In the Philippines, institutions involved in the promotion of agricultural mechanization have also different methodologies in expressing the agricultural mechanization index of the country (Amongo et al, 2017). Hence, the need for the development of modified agricultural mechanization index (MAMI). The protocol is expected to provide decision makers to have a basis in making well-informed decisions for the acquisition, distribution and utilization/adaption of agricultural mechanization technologies. The MAMI has been adopted as national policy by the Department of Agriculture in 2017 in determining the level of mechanization in the country. Furthermore, the MAMI will aid agricultural and biosystems engineering profession as partners of the government in projecting the level of mechanization for the development of the agricultural and fisheries sector.

II. OBJECTIVES:

The primary objective of this project is to determine the level of mechanization in rice in Oriental Mindoro, Philippines using the modified agricultural mechanization index (MAMI). Specifically, it aims to:

1. Gather parameters needed in the calculations of $MAMI_{rice}$ for lowland and upland ecosystems on the selected barangays in Oriental Mindoro;
2. Determine the rate of work of technology used in calculating $MAMI_{rice}$;
3. Identify the major factors that affect $MAMI_{rice}$ in Oriental Mindoro as an index of mechanization;
4. Compare the obtained results of the $MAMI_{rice}$ in Oriental Mindoro between lowland rice ecosystem and upland rice ecosystem; and
5. Record the inventory of rice machinery for lowland and upland rice ecosystems in Oriental Mindoro; and
6. Layout the map of the level of mechanization for lowland and upland rice ecosystems in Oriental Mindoro.

III. METHODOLOGY:

$MAMI_{rice}$ Determination

The operational procedure on the computation of the Modified Agricultural Mechanization Index for lowland and upland rice ecosystem or $MAMI_{rice}$ (Amongo et al, 2017) will be used in this project. Parameters such as soil type, windows for each operation, operation hours per day, source of power for each operation, actual utilization of the source of power, the chemicals applied, crop care practices, crop water requirement, efficiency for each operation, rice variety, and yield per cropping season will be considered in the equation.

The operations considered in rice farming are classified as land preparation, crop establishment, crop care, harvesting, drying, hauling and milling. In rice milling, only village level or the one that were owned by farmer's cooperative will be considered. Those large rice milling facilities owned and operated by private sectors will not be considered since the objective was to determine the agricultural mechanization index at farmer's



level. If the farmer sold his/her produce just after harvest, then the succeeding operation/s will not be considered in the equation. The general equation for $MAMI_{rice}$ is presented in Equation 1 wherein the power source coming from machine, draft animal, and human were considered for each farm operation. If not all power sources are present on a certain farm operation, it will just be cancelled out from the general equation. In the equation, it can be observed that human power was included in the machine power and draft animal power. This is for the fact that human is still needed to operate the machine and to guide the draft animal when doing farm activities.

$$MAMI_{rice} = \left(\frac{A_{T-farmer}}{A_T} \right) \left\{ \left[\frac{\sum [P_{machine} + (\# \text{ of operator} \times P_{man})]}{\sum A_{T-machine}} \right]_{\text{for each farm operation}} \right. \\ + \left. \left[\frac{\sum [(\# \text{ of draft animal} \times P_{animal}) + (\# \text{ of operator} \times P_{man})]}{\sum A_{T-animal}} \right]_{\text{for each farm operation}} \right. \\ + \left. \left[\frac{\sum (\# \text{ of operator} \times P_{man})}{\sum A_{T-man}} \right]_{\text{for each farm operations}} \right\}_{\text{farmer}} \\ + \left(\frac{A_{T-CHS}}{A_T} \right) \left\{ \left[\frac{\sum [P_{machine} + (\# \text{ of operator} \times P_{man})]}{\sum A_{T-machine}} \right]_{\text{for each farm operation}} \right. \\ + \left. \left[\frac{\sum [(\# \text{ of draft animal} \times P_{animal}) + (\# \text{ of operator} \times P_{man})]}{\sum A_{T-animal}} \right]_{\text{for each farm operation}} \right. \\ + \left. \left[\frac{\sum (\# \text{ of operator} \times P_{man})}{\sum A_{T-man}} \right]_{\text{for each farm operations}} \right\}_{\text{CHS provider}} \quad (hp/ha) \quad [\text{Equation 1}]$$

where:

$MAMI_{rice}$ – modified agricultural mechanization index for lowland rice ecosystem, hp/ha

$P_{machine}$ – power rating of machine, hp

P_{man} – power rating of human, hp

P_{animal} – power rating of draft animal, hp

$A_{T-machine}$ – total area covered by machine for one cropping season, ha

A_{T-man} – total area covered by human for one cropping season, ha

$A_{T-animal}$ – total area covered by draft animal for one cropping season, ha

$A_{T-farmer}$ – total area covered by farmers for one cropping season, ha

A_{T-CHS} – total area covered by custom hiring service providers for one cropping season, ha

A_T – total area covered or the combination of total area covered by farmers and custom hiring service providers for one cropping season, ha

The parameters that were common in almost all rice farming operations in the computation of $MAMI_{rice}$ are the field capacity (C), area coverage per day (A_{day}), and the area covered per cropping season, (A_T). Field capacity is the duration to perform a certain farm operation in a given area which is expressed in ha/h . The area coverage per day refers to the total area covered for a certain farm operation for one man-day whether the power source used in the operation came from man, man-animal, or man-machine. Only the productive time for the whole day of the farmer will be considered in one man-day. The area covered per cropping season is the total area that will be supposedly covered in a certain operation if the power source will be utilized for the whole window of operation. This area does not always reflect the physical area covered by the equipment because some farm operations are done several times within the same area for each cropping season.

The information needed to compute the $MAMI_{rice}$ will be obtained primarily from the farmers and custom hiring service (CHS) providers of agricultural machinery via survey. Two sets of respondents will be considered to get the needed information. The first set of respondents is the group of farmers and the other one is the group of CHS providers. If the farmer hires agricultural machines from CHS providers to perform some farm operations, the power available to perform that operation will not be credited to the



farmer but to the CHS provider instead. This will avoid the possible double or multiple counting of agricultural machines that were used in the farm. Because in fact, only the CHS provider owns the machine used.

Formulation and Pre-Testing of Test Instrument

The survey questionnaire that will be used in the survey was formulated in such a way that all parameters needed in the computation of $MAMI_{rice}$ will be obtained. Upon finishing the test instrument, it will be subjected to pre-testing in selected barangays of Victoria, Oriental Mindoro. After the conduct of pre-testing of the survey instruments, it will further be tested in other selected barangays of Victoria, Oriental Mindoro to further enhance the questions and avoid mistakes during the conduct of the actual survey.

Survey Site and Sample Size Determination

The survey site will be selected in such a way that all the municipalities and city of the province of Oriental Mindoro will be well represented in terms of rice production area. Ideally, complete enumeration is preferred, as a comment from the Regional Field Office (RFO) of the Department of Agriculture (DA) when the MAMI operational policy was presented to them for consultation. This was suggested by the different DA-RFO's to have a proper inventory of the agricultural machinery in the province.

Due to the limited resources, stratified random sampling will be used in sample size determination. Stratified random sampling is a method of sampling that involves the division of a population into smaller groups known as strata. The strata are formed based on members' shared attributes and characteristics. A random sample from each stratum is taken in a number proportional to the stratum's size when compared to the population. These subsets of the strata are then pooled to form a random sample. The main advantage of stratified sampling is how it captures key population characteristics in the sample. Similar to a weighted average, this method of sampling produces characteristics in the sample that are proportional to the overall population (Thompson, 2012).

The province of Oriental Mindoro has around 31,452 registered rice farmers (<http://orminagri.com/riceregistry.html>). Considering the stratified random sampling, this will be reduced to 1,452 respondents.

Survey for the Determination of $MAMI_{rice}$

Upon finalization of the survey instrument and determination of sample size and site selection, actual survey will be conducted. The data gathered in the survey will be analyzed to determine the level of agricultural mechanization index in the lowland and upland rice ecosystems in the province using $MAMI_{rice}$.

Mapping of the Level of Mechanization in Lowland and Upland Rice Ecosystems

GIS mapping of the computed level of mechanization will be done in both lowland and upland rice ecosystems in the province of Oriental Mindoro. The map to be generated will aid the planner in the municipal, provincial, and regional level to determine where to focus the agricultural machinery aid to be distributed to the local group of farmers.

IV. EXPECTED OUTPUT

- Level of mechanization in lowland rice ecosystem in Oriental Mindoro
- Level of mechanization in upland rice ecosystem in Oriental Mindoro



- Recommended agricultural machinery to lowland rice ecosystem in Oriental Mindoro
- Recommended agricultural machinery to upland rice ecosystem in Oriental Mindoro
- Inventory of agricultural machinery for rice production in the province of Oriental Mindoro
- Map of level of mechanization in lowland rice ecosystem in Oriental Mindoro
- Map of level of mechanization in upland rice ecosystem in Oriental Mindoro
- Technical papers and posters presented in International or National Scientific Fora
- Publishable articles in a reputable journal
- Project report

V. TARGET BENEFICIARIES

- RDE Institutions involved in agricultural machinery design
- Agricultural and Biosystems Engineering (ABE) Profession
- BSABE students conducting research studies
- Municipal Agriculture Office (14 municipalities in Oriental Mindoro)
- Calapan City Agriculture Office
- Provincial Agriculture Office (Oriental Mindoro)
- Department of Agriculture MIMAROPA Regional Field Office
- ABE Faculty members, researchers, and other stake holders

VI. SCHEDULE OF ACTIVITIES (GANTT CHART)

| ACTIVITY | YEAR 1 | | | | | | | | | | | |
|---|--------|---|---|---|---|---|---|---|---|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Mobilization | | | | | | | | | | | | |
| Coordination with concerned offices | | | | | | | | | | | | |
| Data Gathering | | | | | | | | | | | | |
| Data Encoding and Analysis | | | | | | | | | | | | |
| GIS Mapping of the Level of Mechanization | | | | | | | | | | | | |
| Writing of Progress Report | | | | | | | | | | | | |
| Writing of Final Report | | | | | | | | | | | | |



VII. BUDGETARY REQUIREMENTS

| | YEAR 1 |
|---|---------------------|
| Maintenance and Other Operating Expenses | |
| <u>Direct Cost</u> | |
| Traveling Expenses Local | 1,721,480.00 |
| Communication Expenses | |
| ICT Equipment | 28,000.00 |
| Internet Subscription Expenses | 42,000.00 |
| <u>Semi-expendable</u> | |
| ICT Equipment | 418,000.00 |
| Furniture and Fixtures | 866,100.00 |
| Office Supplies Expenses | 246,160.00 |
| Fuel and Oil | 75,000.00 |
| Representation Expenses (e.g., food for meetings, etc.) | 373,500.00 |
| <u>Professional Services</u> | |
| Research Assistant | 2,508,192.00 |
| Consultation Fee | 42,480.00 |
| Consultation Travel Expenses | 49,856.00 |
| Other Maintenance and Operating Expenses | |
| GRAND TOTAL | 6,370,768.00 |

MDS-14-7

101-200 -01-04

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VIII. REFERENCES

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Amongo, R.M.C., M.K.S. Onal, M.V.L. Larona, A.L. Fajardo, C.I.L. Ilao, G.N.L. Lalap, A.A. Borja, C.G.V. Deniega and J.V. Sumague. Level of Agricultural Mechanization in Oriental Mindoro, Laguna and Quezon, Philippines Using the Modified Agricultural Mechanization Index. Philippine Journal of Agricultural and Biosystems Engineering (PJABE). Vol. XIV 2018 Issue. Page 55-70.

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Calderon, R. (2013). NGP Geo-tagging Manual. Philippines: Forest Management Bureau

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Paras, A. S. Jr., C. R. del Rosario, Jr. and V. A. Uichanco. 1967. Manual in Farm Power and Machinery. Department of Agricultural Engineering, College of Agriculture, University of the Philippines.

Tsujimoto, T. 1998. Farm Mechanization Planning. Tsukuba International Center. Japan International Cooperation Agency.

<http://orminagri.com/riceregistrybaco.html>

<https://www.surveysystem.com/sscalc.htm>

<https://www.wallstreetmojo.com/stratified-sampling/#how-stratified-sampling-method-works>



Prepared by:

ENGR. MARK KEYLORD S. ONAL, MSc
Project Leader

Recommending Approval:

MACARIO MASAGCA, JR., MSc
Director for Research

Approved by:

CHRISTIAN ANTHONY C. AGUTAYA, PhD
Vice President for Research, Development and Extension



APPENDIX

APPENDICES

A. Travel Expenses

| Coordination | | |
|--|-----------|---------------------|
| per diem @Php 198 TEV/day for trips within 50 kilometers (9 SRA and 1 SRS – project leader, 2 study leaders, and driver) | 14 trips | 38,808.00 |
| per diem @Php 440 TEV/day for trips beyond 50 kilometers (9 SRA and 1 SRS– project leader, 2 study leaders, and driver) | 16 trips | 98,560.00 |
| Conduct | | |
| per diem @Php 198 TEV/day for trips within 50 kilometers (6 Science Research Assistants) | 144 trips | 171,072.00 |
| per diem @Php 2,200 TEV/day for trips beyond 50 kilometers (6 Science Research Assistants) | 80 trips | 1,056,000.00 |
| Fare (6 Science Research Assistants for the conduct of the project within 50 kilometers) | 224 trips | 357,040.00 |
| Sub total | | 1,721,480.00 |

B. Communication Expenses

| | | |
|---|-----------|-----------|
| Communications (Starlink, with a hardware cost of Php 28,000) Monthly service plans @ Php 3,500/month Key Features: Unlimited Mobile Data Inland Portability Pause Service <10 mph (16kph) in-motion | 12 months | 70,000.00 |
|---|-----------|-----------|

C. Itemized Budgetary Requirements for Supplies and Material Expenses

| Unit | Item Description | Qty | Unit Cost | Total Cost |
|-------|--|-----|-----------|------------|
| | Semi-expendable | | | |
| units | Desktop (@ Php 48,000 each for 4 units) | 4 | 48,000.00 | 192,000.00 |
| | <ul style="list-style-type: none"> intel core i7 6th gen. processor 1151 h110 motherboard 8gb ram ddr4 120gb ssd 500gb hdd gtx1060 6gb 192 bit ddr5 videocard 750watts power supply m2 tempered case 3pcs rgb led fan 24inches ips viewpoint wide led monitor stx200rgb kb and mouse Freebies: mousepad avr secure rgb headset wifi dongle | | | |
| pcs | 2 TB external hard drive (@ Php 3,000 each for 3 units) | 3 | 3,000.00 | 9,000.00 |



| | | | | |
|------|--|----|-----------|--------------|
| unit | Uninterruptible Power Supply • 650 VA • 220 VAC input voltage • 50-60 Hz • Sine wave under main supply • Intelligent battery management | 2 | 8,500.00 | 17,000.00 ✓ |
| unit | A3 Printer • Print, Scan, Copy, Fax with ADF • Cassette: 250 sheets for A4 Plain paper (80g/m2), 20 sheets for Premium Glossy Photo Paper • Rear Slot: 20 sheets for A3+ Plain Paper (80 g/m2) • 30 sheets for A4 Plain paper (80 g/m2), 20 sheets for Premium Glossy Photo Paper • A3, A3+, Super B, US B (11 x 17"), Legal, Indian Legal, Letter, A4, 16K (195 x 270mm), 8K (270 x 390mm), Executive, B4, B5, A5, B6, A6, Hagaki (100 x 148mm), Mexico-Oficio, 8.5 x 13", Offico9, Half-Letter, 5 x 7", 4 x 6", 8 x 10", 11 x 14", 16:9 wide, Envelopes: #10, DL, C6, C4 • 498 x 358 x 245mm | 1 | 40,000.00 | 40,000.00 ✓ |
| unit | Full Glass Sliding Door Cabinet, Adjustable Shelves Storage, High Cabinet, with locked | 3 | 35,000 | 105,000.00 |
| unit | Aluminum Cabinet and Organizer • Filing cabinet with swing metal doors Material: cold rolled steel plate (SPCC) Finish: Electrostatic Powder Coating Steel Thickness: 0.6mm Inner parts: 4 shelves Lock with 2 keys | 3 | 35,000.00 | 105,000.00 |
| pcs | Handheld GPS Navigator • Enhanced Memory and Resolution, 2.2-inch Color Display, Water Resistant • Large 3.7 GB of internal memory and microSD card slot lets you load a variety of maps, including TOPO 24K, HuntView, BlueChart g2, City Navigator NT and BirdsEye Satellite Imagery | 4 | 30,000.00 | 120,000.00 ✓ |
| unit | • Office Modular Twin Work Station dimension for a cubicle is 60 cm by 150 cm, and the panel height is 120 cm. | 10 | 48,390 | 483,900.00 ✓ |
| unit | • Office Chairs Base Material: Glosy Black Nylon Base, Twin Casters Seat: Leatherette Back: Leatherette Overall: L665xW675xH1198-1298mm Product Dimension 665x675x1198-1298mm Weight 25.00 kgs | 10 | 7920.00 | 79,200.00 ✓ |
| unit | • Mobile Pedestal Flush-type | 10 | 9,300.00 | 93,000.00 ✓ |

TERMS OF REFERENCE

This Memorandum of Agreement is made and entered into this ____ day of MAR 05 2024 2024 at Victoria Oriental Mindoro between.

The Mindoro State University Main Campus, Victoria, Oriental Mindoro, represented by the **OIC - University President, DR. CHRISTIAN ANTHONY C. AGUTAYA**, herein referred to as **MinSU**;

-and-

ENGR. MARK KEYLORD S. ONAL Instructor I, with MinSU ID No. MCC- 0898, **ENGR. RANDY A. JOCO**, Instructor I, with MinSU ID No. MMC-602 and **ENGR. CHRISTIAN HERNANDEZ**, Instructor I, with MinSU ID No. MCC- 0243 herein referred to as **Researcher**;

WITNESSETH THAT:

WHEREAS, MinSU is committed to develop its research capability in relation to the capability of its Faculty;

WHEREAS, the Researcher has submitted a proposal entitled "**Level of Mechanization in Oriental Mindoro, Philippines Using the Modified Agricultural Mechanization Index (MAMI)**"

WHEREAS, the proposal is within the research agenda and set priorities of the College;

WHEREAS, the proposal was assessed to be relevant in so far as producing output of practical utilization to the College and its clientele is concerned;

WHEREAS, MinSU agrees to give support to the research;

NOW, THEREFORE, for and in consideration of the foregoing premises, among parties hereto mutually agree to the following terms and conditions:

I. OBLIGATIONS OF MINSU

1. Allocate and release the amount of **Php 6, 370,768.00** to cover the operating expenses subject to existing government accounting and auditing laws, rules and regulations. This amount shall be expended as allocated in the approved Project Line-item Budget of the proposal.
2. Through the Research Office, monitor the project activities and provide technical assistance relevant to the achievement of its objectives;
3. Through the Extension Office, assist the Research in the dissemination and/or translation of research results to policies and/or actions.

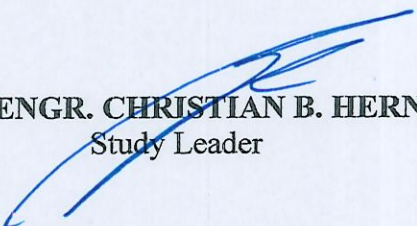
II. OBLIGATIONS OF RESEARCHER/S

1. Implement the project according to the approved calendar of activities;


Handwritten signature

2. Submit reports and reimbursement documents not later than 5 days after any project-related travels and trainings;
3. Provide midterm reports, complete with documentation of the project's implementation, not later than 40 days of its implementation;
4. Ensure the continuity of the project and notify MinSU of instances where the Researcher/s will be absent from his/her station for a period exceeding ten (10) consecutive working days and designate a responsible project official to oversee the operations of the project in his/her absence;
5. Submit not later than 30 days after project's completion digital and three (3) hard copies of the project report in publishable form;
6. Identify proper forum for research results dissemination;
7. Identify, protect and manage all Intellectual Property (IP) generated and pursue commercialization of R&D results in accordance with the Policy Guidelines on Intellectual Property by the College. (BOT Resolution #28, series of 2008); and extend research results to communities, whatever is applicable or feasible; and
8. Ensure conformity with the ethical standards and provision on research implementation and dissemination of results as articulated in the Policy Guidelines for Responsible Conduct of Research of the MinSU Faculty Researchers. (BOT Resolution #16, series of 2013).


IN WITNESS WHEREOF, the Parties have hereunto affixed their signatures on the date and at the place first above written.



ENGR. CHRISTIAN B. HERNANDEZ
Study Leader



ENGR. RANDY A. JOCO
Study Leader

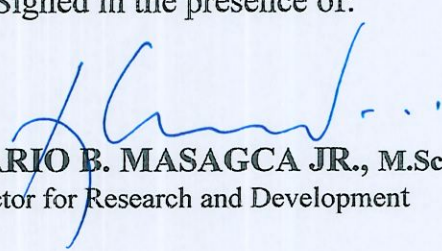


ENGR. MARK KEYLORD S. ONAL
Project Leader




CHRISTIAN ANTHONY C. AGUTAYA, Ph.D.
OIC - University President

Signed in the presence of:



MACARIO B. MASAGCA JR., M.Sc.
Director for Research and Development



ENGR. MARK KEYLORD S. ONAL
Head, Institute of Agricultural and Biosystems Engineering

ACKNOWLEDGEMENT

REPUBLIC OF THE PHILIPPINES

CITY OF Victoria Oriental Mindoro

BEFORE ME, a Notary Public for and in the City of Victoria Oriental Mindoro, this _____ day of MAR 05 2024, personally came and appeared:

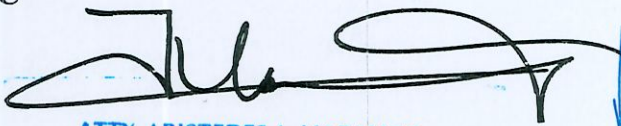
| <u>Name</u> | <u>I.D. Number</u> | <u>Date of Issued</u> |
|----------------------------------|--------------------|------------------------|
| ENGR. MARK KEYLORD S. ONAL | <u>MCC- 0898</u> | <u>August 30, 2021</u> |
| ENGR. RANDY A. JOCO | <u>MCC- 0602</u> | <u>July 18, 2022</u> |
| ENGR. CHRISTIAN B. HERNANDEZ | <u>MCC- 0243</u> | <u>January 5, 2022</u> |
| DR. CHRISTIAN ANTHONY C. AGUTAYA | <u>MCC - 039</u> | <u>August 30, 2021</u> |

Known to me be the same persons who executed the foregoing instruments and acknowledge that the same is their voluntary act and deed as the agencies they represent.

The instrument consisting of three (3) pages including the page of which this Acknowledgement is written, has been signed on each and every page thereafter by parties and their witnesses and sealed with my Notarial Seal.

NOTARY PUBLIC

DOC.NO. 227
PAGE NO. 47
BOOK LXIII
SERIES OF 2024


ATTY. ARISTEDES A. MARAMOT
Notary Public
Until Dec. 31, 2024 NP-22-234
PTR No. 3565882
Victoria Or. Mindoro /01-02-2024
Roll No. 41130 /April 15, 1996
IBP No. 415498 / 01-16-2024/Or. Mindoro
MCLE Compliance No. VII -0013433
Valid until 04-14-2025

2024