

# Bubalus



Quarterly Newsletter of the Department of Agriculture-Philippine Carabao Center

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## FEATURE

### Olivia: The AI wonder woman of Pangasinan

By **Ronaline C. Canute**

A remarkable story spread quickly throughout Pangasinan about a woman from Alaminos known for her extraordinary skill in impregnating buffaloes! Word of Olivia Palazo's expertise quickly reached villages, with farmers eager to meet the renowned

**To page 15**

### DA-PCC celebrates 32 years of service excellence

By **Ronaline C. Canute**

"Excellence in Unity, Propelling the Future through Innovation" is the message of the upcoming 32<sup>nd</sup> anniversary celebration of DA-Philippine Carabao Center (DA-PCC).

The theme highlights the power of collaboration and collective effort in achieving excellence while underscoring innovation as

a key driver for future growth and sustainability in the carabao industry.

The celebration will take place on March 24-28, 2025, at the DA-PCC National Headquarters and Gene Pool, Science City of Muñoz, Nueva Ecija. Highlights include K-Talks, a speaking event where previous

**To page 4**



# Bubalus

2018 Agricultural Newsletter of the Year

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## About the cover

For Olivia Palazo, being a female village-based artificial insemination technician (VBAIT) is a privilege because she possesses a nurturing quality. Her skill in artificial insemination (AI) is exceptional that she's become a local celebrity, a name known across the western part of Pangasinan. She was a recipient of the "Huwarang Juana sa Kalabawan" award during the 9th National Carabao Conference in 2023.

Photo by France Joseph O. Pascual



## Contents

- 03 DA-PCC, DA-NDA strengthen efforts toward milk sufficiency
- 03 First Dairy Box in the Cordillera is now open
- 04 DA-PCC entrusts bulls to Region III farmers
- 04 DA-PCC trains Ilocos Norte locals on carabao's meat processing
- 05 Cagayan farmers gear up for carapreneurship
- 05 Pangasinan carapreneurs commit to GK3K project
- 06 Forage tech to boost forage production, conservation in Sta. Maria Dairy Association
- 06 Talakagnon IP farmers receive PHP8M carabao project
- 07 DA-PCC embarks on carabao program expansion in Bukidnon
- 07 Carapreneurs rev up for standardized dairy biz ops in Mindanao
- 08 DA-PCC at MMSU, DTI-Ilocos Norte sign agreement for buffalo milk dev't project
- 08 DA-PCC at USM receives recognition for outstanding contributions in agriculture, education, research in Region XII
- 09 Headways in PH carabao program underscored in int'l convention
- 10 DA-PCC expands carabao upgrading program in Mindanao
- 11 Aurora hosts its first-ever Pista ng Kalabaw
- 12 DA-PCC's 4 regional centers pass recertification, surveillance audit
- 14 LGUs, AI technicians collaborate to boost calf production in Region III
- 16 Innovative Solutions for Sustainable Livestock Production
- 18 2024 Outstanding Employees

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# DA-PCC, DA-NDA strengthen efforts toward milk sufficiency

By Sef Cari

The DA-Philippine Carabao Center (DA-PCC) and the DA-National Dairy Authority (NDA) convened for a strategic planning workshop to enhance milk production and harmonize reporting mechanisms with the Philippine Statistics Authority (PSA) on February 20-21, 2025 at Harolds Hotel in Quezon City.

The initiative aims to streamline milk supply mapping nationwide, ensuring efficient data collection and monitoring as part of the implementation of Republic Act 11037, which promotes the provision of nutritious milk to Filipino children. By harmonizing data reporting systems, the agencies seek to foster transparency and accountability in the dairy industry.

The workshop outlined strategic initiatives to strengthen the dairy sector. Discussions focused on identifying areas for growth, improving farm productivity, and enhancing the dairy supply chain to achieve milk sufficiency.

NDA Administrator Atty. Marcus Antonius Andaya highlighted the need for stronger collaboration between DA-PCC and NDA, urging both agencies to

## RA 11037

### MASUSTANSYANG PAGKAIN PARA SA BATANG PILIPINO ACT

RA 11037 aims to address child undernourishment through a feeding program in kindergartens and elementary schools. This initiative also promotes the local procurement of food products, supporting the livelihoods of local farmers and community members.

share resources and establish a unified monitoring system for data collection.

DA-PCC's Executive Director III Dr. Liza G. Battad stressed the importance of equanimity and managing affective valence in achieving productive collaboration.

Atty. Rhaege Tamaña, Chief of Staff to Senator Cynthia Villar, underscored that mindset and determination are more critical than the pace of progress. She backed the establishment of a unified monitoring and reporting system between DA-PCC, NDA, and PSA to ensure consistency in data management.

Meanwhile, Assistant Secretary for Ruminants Benjamin Albarece underscored the goal of ensuring that 80% of productive units in the dairy industry consist of milking animals. He also emphasized the importance of sexed semen technology in accelerating population growth within the sector and called for a sustainable breeding program.

By fostering collaboration between DA-PCC and DA-NDA, the initiative seeks to streamline data collection, ensure consistency, and improve decision-making across the dairy sector. **B**



Photo Courtesy of Apayao Congress

📍 DA-PCC at CSU

## First Dairy Box in the Cordillera is now open

By Theodore Mar Mora

The first Dairy Box in the Cordillera Administrative Region (CAR) officially opened on February 10, 2025, in Apayao, during the grand opening of the Agro-Tourism Trade Fair at the 30th Apayao Foundation Day celebration.

Governor Elias C. Bulut Jr., who graced the occasion, underscored

**To page 9**



The DA-Philippine Carabao Center at Central Luzon State University (DA-PCC at CLSU) entrusted bulls to farmer recipients from Region III on February 26, 2025, at Sitio Saranay, Brgy. Sto. Niño 3rd, San Jose City, Nueva Ecija.

Arthur Peñaflor from Lubao, Pampanga, Ariel Morales from Sta. Rita, Pampanga, Kurt Darvinn Cheng from Moncada, Tarlac, and Neil Carlo Venzon from Bacolor, Pampanga are among the Bull Entrustment Program (BEP) beneficiaries.

During the interview, Peñaflor said, “Nagpapasalamat ako sa DA-PCC sa ipinagkaloob na bull. Malaking tulong ito sa akin, sa aking pamilya, at sa aking mga ka-barangay dahil hindi na namin kailangang lumayo pa upang maghanap ng bull para sa aming mga inahing kalabaw.”



DA-PCC at MMSU

## DA-PCC trains Ilocos Norte locals on carabao’s meat processing

By Ivy Jane Guanzon

The DA-Philippine Carabao Center at Mariano Marcos State University (DA-PCC at MMSU), in collaboration with the Bannuar Sustainable Livelihood Program Association (SLPA) meat shop of Banna, Ilocos Norte, conducted a meat processing training on February 19-21, 2025.

With the theme “Advancing Carabao Meat Processing and Development Training, Innovation, Quality, Excellence, and Market Expansion Opportunities,” members of the

Bannuar SLPA meat shop in Banna, Ilocos Norte, were introduced with the latest innovations in carabao meat production and processing.

Ana Marie E. Jamias, project manager of the Bakery and Meat Processing Unit of Bantog Samahang Nayon Multi-Purpose Cooperative (BSNMPC) of Asingan, Pangasinan, and Jan Rose G. Maon of DA-PCC at Don Mariano Marcos Memorial State University

To page 9

# DA-PCC celebrates years of service excellence..

From page 1

PCCeans share inspiring stories related to the agency’s recognition of outstanding employees, a training workshop on leadership branding and executive presence, a sports fest, the main anniversary program, and the launching of new knowledge products, the PCC website, SUPREME database, the Agri Negosyo Loan Program for Carabao Farmers, and the Adventures of KalaBoy and KalaGirl.

Senator Jinggoy Ejercito Estrada, chairperson of the Senate Committee on Labor, Employment, and Human

Resources, and Department of Agriculture’s Secretary Francisco Tiu Laurel Jr. were invited as the keynote speakers.

On March 27, 1992, former President Corazon C. Aquino signed Republic Act 7307, titled “An Act Creating the Philippine Carabao Center to Propagate and Promote the Philippine Carabao and for Other Purposes,” also known as the Philippine Carabao Act.

The DA-PCC began its operations in 1993. Originally, DA-PCC had six

regional centers across the country, but seven were added in 1994.

On July 30, 1998, former President Joseph E. Estrada launched the second phase of the Carabao Development Program (CDP), focusing on institutionalized upgrading and carabao-based enterprise development. The following year, the agency’s headquarters was relocated from Manila to the Science City of Muñoz, Nueva Ecija, and the province was chosen as the national impact zone for dairy buffalo enterprise. **B**

## Cagayan farmers gear up for carapreneurship

By **Mar Teodoro Mora**

The DA-Philippine Carabao Center at Cagayan State University (DA-PCC at CSU) conducted a Social Preparation Training (SPT) for farmer-members of Apayao Piat Agriculture Cooperative (APAC) and Integrated Farmers' Cooperative (IFC) of Piat, Cagayan to better prepare them in carapreneurship on February 26-27, 2025 at the DA-PCC at CSU's training center, Bauang, Piat, Cagayan.

Organized by the Carabao-Based Enterprise Development (CBED) unit of the DA-PCC at CSU, the training aimed to support farmers in qualifying for the programs that the DA-PCC offers.

Celso G. Quinet, Project Assistant IV, shared a comprehensive lecture on DA-PCC's mandates and programs such as the carabao upgrading and enterprise development.

He said, DA-PCC is optimistic that soon the SPT participants will be greatly benefitted with increased incomes for joining the program. Benedicto B. Blanza, Project Assistant III, tackled the topic "Pagsasanay para sa Panlipunang Paghahanda ng mga Magsasakang nais Makilahok sa Proyektong Gatasang Kalabaw" to help farmers appreciate the purpose of the training. He emphasized how their lives could improve after venturing into carabao-based enterprise.

He inspired them by sharing the success stories of dairy farmers in the region that motivated the participants to engage in carabao farming.

**To page 13**



## Pangasinan carapreneurs commit to GK3K project

By **Maximo Peralta Jr.**

Members of the Surong Dairy Farm Sustainable Livelihood Program Association (SLPA) have pledged their dedication to the Gatasang Kalabaw Kontra Kahirapan at Kagutuman (GK3K) project, following the completion of a four-day Buffalo Production and Management Training. The closing ceremony was held on February 14, 2025, at Balay Pavilion, Poblacion, Bani, Pangasinan.

"Ipinangako namin na pagbubutihan, pagsusumikapan, at isasapuso namin ang pakikipagsapalaran sa larangan ng pagkakatubuhan," Rey Vica Tabalon, president of SLPA, said.

Thirty members of the SLPA attended the said learning activity that aims to provide them with practical knowledge and skills in managing buffalo farming operations, increasing productivity, ensuring animal welfare, and maximizing returns through sustainable practices in breeding, feeding, disease management, and milk handling.

With the beneficiaries' commitment to their livelihood, DA-PCC at DMMMSU Center Chief Vilma Gagni promised to support them by providing five pregnant buffaloes and offering additional training and interventions. She also hopes that the unity among the members will lead to the success of the project, serving as an inspiration to other farmers interested in buffalo production and entrepreneurship.

In addition, municipal councilor Ronaldo Catabay, expressed his appreciation to DA-PCC for introducing sustainable livelihood the members have chosen to venture

**To page 13**

## Forage tech to boost forage production, conservation in Sta. Maria Dairy Association

By **Maximo Peralta Jr.**

Arya Sta. Maria Dairy SLP Association recently leveled up its knowledge and skills in forage production and conservation management in preparation for the additional buffaloes that will be entrusted by the local government unit of Sta. Maria, Pangasinan, and DA-Philippine Carabao Center at DMMMSU.

The forage production and conservation management training was provided to educate the carapreneurs on the importance of proper care and management of buffaloes for increased productivity.

The training took place at the association's communal farm in San Patricio, Sta. Maria, Pangasinan, on February 26, 2025.

“Forage production is a key aspect in buffalo production and management, as animal nutrition and health are directly connected to the overall productivity of the buffaloes,”

**To page 12**

## Talakagnon IP farmers receive PHP8M carabao project

By **Jeson Candole**

More than 30 indigenous people (IP) farmers and their families in Mizpah, Talakag, Bukidnon, are set to benefit from an PHP8 million Carabao Development Program (CDP) project aimed at providing them livelihoods.

The initiative, which focuses on carabao herd build-up, was formally launched during an orientation session on January 15.

The DA-PCC at Central Mindanao University (DA-PCC at CMU) is implementing the project in partnership with the Balugto Hope Agriculture Cooperative (BHAC), which serves as the partner cooperative.

During the orientation, DA-PCC at CMU center director Dr. Lowell Paraguas outlined the project's benefits for the farmers. He said DA-PCC will also continue to provide them with support in production, marketing, and extension services.

Dr. Elena Paraguas, DA-PCC at CMU's Carabao-Based Enterprise Development (CBED) coordinator, oriented the beneficiaries on the business opportunities in dairy farming.

“Do not settle for less. Your crossbreeds are potential sources of milk. You can soon engage in the dairy business, which can give you more income,” she said.

Randy John Uy, chairperson of BHAC, gave the farmer-beneficiaries a heads-up on how they can fulfill all the requirements before the animals will be released to them.

“As members of the cooperative, our farmers will get ready to take on the project and will strive to succeed in this new endeavor. The co-op will be supportive of them in this cause and we will see them through until they succeed,” Uy assured.

Under the program, the farmers will undergo training in dairy buffalo production and management. A total of 100 crossbred carabaos will be entrusted to qualified farmers. These animals will serve as source of milk for Dairy Box-Talakag, a local dairy processing hub and products outlet.

Key BHAC officers, including vice chairperson Felipe Batistil and board director Napoleon Lancin, facilitated the workshops to prepare the farmers for their new roles as carapreneurs. **B**





📍 DA-PCC at CMU

## DA-PCC embarks on carabao program expansion in Bukidnon

By **Jeson Candole**

The DA-Philippine Carabao Center at Central Mindanao University (DA-PCC at CMU) and the Province of Bukidnon signed a Memorandum of Agreement (MOA) for the implementation of the Carabao Development Program (CDP) on January 17, 2025 in Malaybalay City, Bukidnon.

The partnership aims to promote agricultural development by providing policy frameworks, public investments, support services for agricultural business enterprises, and technical assistance to livestock clients. The Bukidnon Tagoloanon Mulahay Ha Kabukalagan Agriculture Cooperative

(BUKTAMACO), an Indigenous Peoples' cooperative in Bukidnon, was identified as the partner co-op for the program.

According to Dr. Lowell Paraguas, center director of DA-PCC at CMU, the center will take the lead in organizing learning events for farmers and business owners that will increase their competitiveness in the dairy industry and, as a result, improve the province's local dairy industry.

“The expansion of this program will succeed through meaningful



***The expansion of this program will succeed through meaningful collaborations and strong partnerships that can reach other areas of Bukidnon.”***

**DR. LOWELL PARAGUAS**  
CENTER DIRECTOR  
DA-PCC AT CMU

**To page 14**

📍 DA-PCC at USM

## Carapreneurs rev up for standardized dairy biz ops in Mindanao

By **Rodolfo Valdez Jr**

A total of 45 Dairy Box operators from Regions XI and XII commit to standardizing their business operations as they recently underwent training on Dairy Box management and operation last February 25-28, 2025 at the ATI Satellite Office, University of Southern Mindanao, Kabacan, Cotabato.

The activity, spearheaded by the DA-Philippine Carabao Center at USM, aimed to equip partner cooperatives with fundamental knowledge on

business and skills to effectively manage and maximize profit in carabao-based enterprises, strengthen brand identity, and foster customer loyalty towards carabao dairy products.

“Adhering to a standardized operations is key to improving productivity and profitability of our carapreneurs. By ensuring uniformity in practices, especially in Dairy Box management,

**To page 10**

## DA-PCC at MMSU, DTI-Ilocos Norte sign agreement for buffalo milk dev't project

By Ivy Jane Guanzon

The DA-Philippine Carabao Center at Mariano Marcos State University (DA-PCC at MMSU) and the Department of Trade and Industry (DTI) Ilocos Norte signed an agreement on February 14, 2025, for a shared service facility on buffalo milk development project to boost the production, processing, and marketing of buffalo milk.

Amelia E. Galvez, provincial director of DTI Ilocos Norte, shared the project will provide essential support, including machinery for milk processing, packaging, and storage.

Joel F. Cabading, OIC-center director of DA-PCC at MMSU, said this agreement could further help farmers produce quality dairy products and have a sustainable livelihood.

This partnership underscores DTI and DA-PCC at MMSU's commitment to fostering inclusive growth, especially for carabao raisers and small-scale dairy producers.

Under the project, DTI Ilocos Norte provided equipment including two milking machines, two chest freezers, one upright refrigerator, and two stamping sealers.

DTI Ilocos Norte emphasized the role of collaborative projects in transforming the agricultural sector. This initiative is expected to strengthen the carabao milk value chain and benefit farmers, entrepreneurs, and the wider community. **B**

## DA-PCC at USM receives recognition for outstanding contributions in agriculture, education, research in Region XII

By Rodolfo Valdez Jr.

The DA-Philippine Carabao Center at the University of Southern Mindanao (DA-PCC at USM) has been recognized for its exceptional efforts in fostering innovation and transforming communities through collaboration with various regional stakeholders.

This recognition reflects the center's commitment to delivering quality services within its coverage area.

In a move that highlights the success of its school-based feeding program, the Department of Education Region XII (DepEd XII) recognized DA-PCC at USM as a valuable partner in implementing the program across the region, which aims to improve the nutritional status of schoolchildren and uplift the economic status of carapreneurs.

Additionally, the DA-Agricultural Training Institute XII (DA-ATI-XII) named DA-PCC at USM as the "Best Collaborating Partner" in advancing livestock extension programs

in Region XII. The partnership has successfully seen the implementation of effective livestock management training and extension services including artificial insemination training.

Furthermore, the SOCCSKSARGEN Agriculture, Aquatic, and Natural Resources Research and Development Consortium (SOXAARRDEC) commended DA-PCC at USM for its active role in advancing agricultural research that enhances sustainability and productivity in the region.

The center has also received multiple accolades from the DA-PCC national headquarters. These include awards for excellent data quality in product and marketing outlet, the highest self-liquidating rate in the institutional herd, and being recognized as one of the top performing regional knowledge managers (Regional Center category).

Additionally, it also ranked second among the centers with the most

**To page 14**



DA-PCC Executive Director Dr. Liza Battad (2nd from right) participated in the Texas Farmers Union's 123rd Annual Convention as one of the speakers wherein she discussed the global relevance of DA-PCC's initiatives particularly the implementation of the Carabao Development Program.

# First Dairy Box in the Cordillera is now open...

From page 3

the market outlet's importance in boosting Apayao's dairy industry and agricultural sector.

"The Dairy Box will provide a stable market for our dairy farmers and promote Apayao's potential as an agro-tourism destination. This is a step towards strengthening our local economy and ensuring sustainable livelihoods for our farmers," said Governor Bulut Jr.

Rep. Eleanor C. Bulut-Begtang and

Board Member Kyle Mariah Chelsea Bulut-Cunan also graced the event and pledged their full support for the project.

The establishment of Dairy Box-Apayao is a key initiative under the Carabao-based Business Improvement Network (CBIN) project, championed by Senator Cynthia A. Villar, chairperson of the Senate Committee on Agriculture, Food, and Agrarian Reform.

The project is a collaborative effort

between the Provincial Government of Apayao and the DA-Philippine Carabao Center at Cagayan State University (DA-PCC at CSU). The Provincial Veterinary Office, in partnership with the Apayao Livestock Agriculture Cooperative, supports its implementation.

The soft opening showcased various locally sourced and processed dairy products, including fresh milk, flavored milk drinks, carabao milk candy, and Chicharabao. **B**

## DA-PCC trains Ilocos Norte locals on carabao's meat processing...

From page 4

(DA-PCC at DMMMSU), gave a lecture on the different techniques in carabao meat processing, food safety, and good manufacturing services.

The training focused on enhancing product quality and innovation and underscoring market expansion opportunities for the industry. The participants had a hands-on training on processing carabao meat products. They were able to make carabeef siomai, carabeef dumplings, carabeef meatballs, carabeef frozen bulalo, and carabeef skinless longganisa.

To gain hands-on experience in carabao milking, the participants visited the center's institutional herd.

Joel F. Cabading, OIC center director of DA-PCC at MMSU, welcomed them and committed to continually provide the

participants with other relevant trainings and support.

Director Cabading highlighted that this training is in preparation for the eventual establishment of a Kardeli shop in Ilocos.

Kardeli is a portmanteau of the words "carabao" and "delicacy". The brand was launched in 2016 introducing it to the public as a tender meat debunking the perception that carabao's meat is tough and has an after-taste.

The products made by the participants are now available at the Banna Public Market, which is located in the Bannuar SLPA building in Banna, Ilocos Norte. **B**

## Headways in PH carabao program underscored in int'l convention

By Ma. Cecilia Irang-Mariano

Dr. Liza Battad, DA-PCC executive director, talked about the global relevance of DA-PCC's initiatives as one of the speakers at the Texas Farmers Union's 123rd Annual Convention held on January 24-26, in Abilene, Texas.

In her address, Dr. Battad highlighted the DA-PCC's mandate, programs, and services. She emphasized the agency's

efforts to advance the carabao industry through its flagship program—the Carabao Development Program (CDP), which plays a crucial role in improving food security and providing livelihood opportunities to farming families through carabao entrepreneurship.

"To this date, the DA-PCC is producing 50,000 genetically improved water buffaloes annually," Dr. Battad shared.

She underscored that these efforts contribute significantly in building the carabao herd, as the improved breed ensures better milk and meat production, ultimately uplifting the livelihoods of smallholder farmers.

The convention focused on key topics such as the Texas Farm Bill, Fairness to Farmers, and advancements in agricultural practices to address pressing challenges and opportunities in the sector. It also provided a platform for international knowledge exchange, which gave Dr. Battad a chance to share DA-PCC's initiatives while gaining insights into innovative U.S. agricultural policies and practices. **B**

# DA-PCC expands carabao upgrading program in Mindanao

By Rodolfo Valdez Jr.

Over 80 artificial insemination (AI) technicians from Regions XI, XII, and BARMM teamed up to strengthen the carabao upgrading program of the DA-Philippine Carabao Center at University of Southern Mindanao by expanding its AI and bull services in geographically isolated and disadvantaged areas (GIDAs) and with high poverty incidence.

During the recently concluded AI forum held on February 27-28, AI technicians, along with their regional and provincial AI coordinators, emphasized the importance of strategic targeting for each province within their respective regions. This initiative aims for a target of 5,600 artificial inseminations by 2025, along with 100% calf drop monitoring. “Let us get back to an intervention program that affects the smallest group of society such as ‘sitio’-based AI activities. With this, we can penetrate even remote areas that need our services,” DA-PCC at USM Center Director Geoffray R. Atok said.



DA-PCC at USM AI coordinator Jeffrey A. Rabanal demonstrates to the participants how to perform the proper artificial insemination procedures.

One of the highlights of the AI forum was the participation of carabao raisers from partner cooperatives with carabao-based enterprises to appreciate the role of AI technicians in the rebreeding program or herd build-up to increase farmers’ productivity and profitability.

In addition, DA-PCC at USM AI coordinator Jeffrey A. Rabanal expressed the significant impact of the OMK! or Oh, ma! Kalabaw! Campaign rolled out in 2024 in Sultan Kudarat.

To page 14

## Carapreneurs rev up standardized dairy biz...

From page 7

we can create a more sustainable and competitive dairy industry in Mindanao,” DA-PCC at USM Center Director Geoffray R. Atok emphasized.

The three-day learning event focused on standardizing operations of the nine Dairy Boxes situated across Regions XI and XII through lectures on basic business principles, Dairy Box branding, understanding and applying the principles in the Yellow Book manual.

“Ang pinaka-importanteng natutunan ko sa training ay ang mga pangunahing kaalaman sa negosyo, tulad ng pagkakaroon ng malinaw na vision at mission para sa Dairy Box. Binigyan din kami ng mga mahahalagang kaalaman

tungkol sa mga estratehiya sa marketing dahil ang pagkabalabawan ay hindi lang natatapos sa pag-aalaga ng kalabaw kundi hanggang sa pagnenegosyo ng mga produkto mula rito,” Cherry Damasco, vice chairperson of Pangí Multipurpose Cooperative, said.

Dairy Box is an infrastructure support for smallholder dairy farmers designed to provide them with an opportunity to gain access to the commercial market for greater income.

The first Dairy Box store in the country was established in the Science City of Muñoz, Nueva Ecija in 2015. In Regions XI and XII, the Dairy Box stores are strategically located and managed by

different cooperatives, including Sta. Catalina Multi-Purpose Co-op in Pres. Roxas, Cotabato; Lamluma Diversified Farmers Agriculture Co-op in Surallah, South Cotabato; Tupi Integrated Agricultural Co-op in Tupi, South Cotabato; Pangí Multi-Purpose Co-op in Maitum, Sarangani; Inyam Pintuan Asbang Multi-Purpose Co-op in Matanao, Davao del Sur; Taytayan Irrigators and Farmers Agriculture Co-op in Cateel, Davao Oriental; Don Enrique Lopez Kalaparan Agriculture Co-op in the City of Mati, Davao Oriental; United Carp Beneficiaries Multi-Purpose Co-op - Sta. Maria, Davao Occidental; and Linoan Farmer Integrated Co-op in Montevista, Davao de Oro. **B**

# Aurora hosts its first-ever Pista ng Kalabaw

By Camilla Jane Soliman

The Provincial Veterinary Office (PVO) of Aurora successfully held the first-ever Pista ng Kalabaw on February 13 at the Capitol Grounds, Brgy. Suklayin, Baler, Aurora.

The event served as a platform to highlight the importance of agriculture and the carabao industry in the province while raising awareness about the challenges faced by farmers. It also showcased carabao-based products and initiatives aimed at boosting local livelihoods.

Aurora Governor Reynante Tolentino reaffirmed the province's commitment to supporting initiatives that benefit both farmers and the carabao industry. Board Member Lordan Roxas, chairperson of the SP Committee on Agriculture and Agrarian Reform, underscored the essential role of carabaos in the agricultural sector. He expressed his hope for the continued growth of the carabao population, recognizing its benefit as a valuable source of nutritious milk that supports overall health of the Filipino people.

Dr. Eduardo Lapuz Jr., regional executive director of DA Region III, also emphasized the multifaceted

contributions of carabaos to farming communities.

“Lubos po naming pinahahalagahan ang kalabaw dahil ito ay nagbibigay ng gatas, karne, at maaaring pagkunan ng kabuhayan ng mga magsasaka. Bukod dito, katuwang natin sila sa pagtanim at pag-aani, kaya ang mga ganitong pagkilala sa kanilang sipag ay nararapat lamang na isagawa,” he said.

Dr. Ericson Dela Cruz, center director of DA-PCC at Central Luzon State University, shared his vision on strengthening carapreneurship in Aurora and encouraged more locals to engage in carabao farming. He also introduced Cara Cuero, a genuine leather product made from carabao hide, as part of efforts to expand carabao-based enterprises.

A ceremonial turnover of anima record was also held, symbolizing the commitment to advancing the Carabao Development Program. Dr. Renato Reyes, president of Aurora State College of Technology (ASCOT), received the individual animal record from Dr. Kenneth Vir Magalong, head of the DA-PCC National Bull Farm.

Dr. Reyes gave ASCOT's commitment to enhancing carabao farming and dairy production in Aurora.

“Bilang pangulo ng ASCOT, aming tutugunan ito bilang isang hamon at pangako. Kasama ang ASCOT, pagsusumikapan naming paramihin ang mga kalabaw upang mapakinabangan ng mga mamamayan ng Aurora,” he stated.

The Pista ng Kalabaw 2025 featured various activities, including a carabao parade,



***Lubos po naming pinahahalagahan ang kalabaw dahil ito ay nagbibigay ng gatas, karne, at maaaring pagkunan ng kabuhayan ng mga magsasaka. Bukod dito, katuwang natin sila sa pagtanim at pag-aani, kaya ang mga ganitong pagkilala sa kanilang sipag ay nararapat lamang na isagawa.***

**DR. EDUARDO LAPUZ JR.**

EXECUTIVE DIRECTOR  
DA REGION III

best-dressed carabao contest, best talent competition, best body conformation contest, carabao body painting, carabao photo contest, carabao meat cooking competition, and most-upgraded carabao contest.

Dr. Apolinario Salazar Jr., head of DA-PCC at CLSU's Training and Information Unit, served as one of the judges for the float competition. The event was also attended by PCC at CLSU unit heads and staff, along with local officials, farmers, and carabao industry stakeholders. **B**



# DA-PCC's 4 regional centers pass recertification, surveillance audit

By **Rodolfo Valdez Jr., Leinefe Aton, Sunshine Sabidalas** and **Jeremie Marinella Ledesma**

By ensuring consistent quality in delivering services, four regional centers of DA-Philippine Carabao Center maintained its ISO 9001 status and passed its surveillance audit.

## 📍 DA-PCC at USM

The DA-Philippine Carabao Center at University of Southern Mindanao (DA-PCC at USM) has successfully passed its ISO 9001:2015 Quality Management System recertification audit as part of its effort in reaffirming its commitment to delivering quality services through the carabao development program.

The recertification conducted earlier today included the genetic improvement program, carabao-based enterprise development, and research and development towards enhancing the center's commitment to supporting the carabao industry and rural farming communities in Region XI, Region XII

and BARMM (Maguindanao Provinces).

"Our re-certification audit will assess the effectiveness of the management system in helping our agency to meet its specified objectives. The audit further identified areas for potential improvement in our system that will guide future efforts to enhance our operational efficiency and service quality," said DA-PCC at USM Center Director Geoffray R. Atok.

The successful recertification, with external auditors led by Orlan Tiongzon and Eunice Sol Diamante of TÜV SÜD PSB Philippines, assessed the ongoing commitment of DA-PCC at USM to quality management and its vital role in the development of the carabao sector.

In its pursuit to provide quality livestock-related services, the re-certification highlights that the center is equipped in ensuring that its

management practices meet the highest international standards.

The DA-PCC at USM had established its ISO 9001 Quality Management System for the implementation of quality products and services that conformed with standard requirements since 2013.

## 📍 DA-PCC at USF

The DA-Philippine Carabao Center at Ubay Stock Farm (DA-PCC at USF) has successfully retained its ISO 9001:2015 certification after passing the recertification audit conducted by the TUVSUD certifying body on February 10-11, 2025.

Following a comprehensive validation of the center's processes and management system, TUVSUD confirmed the certification in a closing meeting, reaffirming the agency's adherence to international quality standards.

## Forage tech to boost forage production...

From page 6



said Vienna Kristel Grospe, the forage coordinator of DA-PCC at DMMMSU, who led the said training.

Forage conservation enables farmers to store feed for their animals during times when feed resources are limited. Additionally, it allows for the enhancement of the nutritional value of feed resource, including rice straw and forages, by value adding such as making them into improved rice straw and silage.

The training included discussions on feed resources, pasture management, and forage conservation techniques. To help farmers integrate their knowledge and skills, the DA-PCC at DMMMSU also conducted hands-on demonstrations on how to make corn silage, enhanced rice straw, and urea molasses mineral block. **B**

“ Our re-certification audit will assess the effectiveness of the management system in helping our agency to meet its specified objectives. The audit further identified areas for potential improvement in our system that will guide future efforts to enhance our operational efficiency and service quality.

**GEOFFRAY R. ATOK**  
CENTER DIRECTOR  
DA-PCC AT USM

Notably, the audit resulted in a zero non-conformance report and a positive finding, demonstrating the center's unwavering dedication to meeting customer requirements, complying with statutory and regulatory obligations, and upholding the standards set by ISO 9001:2015.

This achievement underscores DA-



PCC at USF's commitment to excellence and continuous improvement in its management system, ensuring the consistent delivery of high-quality products and services for 13 years.

#### 📍 DA-PCC at VSU

The DA-Philippine Carabao Center at Visayas State University (DA-PCC at VSU) renewed its commitment to providing quality services by successfully maintaining its ISO 9001:2015 Quality Management System (QMS) certification during the second surveillance audit held on February 10, 2025.

The surveillance audit revolves around the center's commitment to Carabao Development through the provision of quality products and excellent services. Dr. Ivy Fe M. Lopez, interim center director of DA-PCC at VSU, expressed her gratitude to the center's workforce.

“Congratulations to all of us for successfully passing the ISO 9001:2015 Surveillance Audit! This is a fantastic achievement that reflects our commitment to maintaining the highest standards of quality and continuous improvement,” she said.

TÜV SÜD MS Lead Auditor Michael Nelson Soriano led the surveillance audit. The recertification audit is scheduled for January 2026.

#### 📍 DA-PCC at UPLB

The DA-Philippine Carabao Center at University of the Philippine Los Baños (DA-PCC at UPLB) once again raised the #TatakPCC banner after passing the ISO 9001:2015 Quality Management System (QMS) certification on January 31, 2025. 🇵🇭

## Pangasinan carapreneurs commit to GK3K project...

### From page 5

into. He congratulated the members, encouraged them to give their best for the project's success, and assured them of LGU-Bani's support.

“Asahan niyo ang aming suporta. Kung ano man ang inyong mga kailangan, lapitan niyo lang ang lokal na pamahalaan sapagka't handa kaming tumulong sa proyektong ito sa ating bayan,” Councilor Catabay said.

Sheila Carlit, Municipal Social Welfare and Development Officer in Bani, envisions that the 1st District in Pangasinan will be able to produce dairy products, which will not be recognized only in Bani but in the whole province. She assured the members that the Department of Social Welfare and Development (DSWD) and DA-PCC will continually

support and assist them.

“Magiging madali ito para sa inyo kapag isinasapuso niyo ang ibinigay na pangkabuhayan. Nasa inyong kamay kung paano niyo ito palalaguin at ipanano,” said Rozel Arig, PDO II of DSWD-SLP Region 1, to further encourage and motivate the members of the project.

The GK3K in Bani is one of the many projects of the DSWD-Sustainable Livelihood Program (DSWD-SLP) in Pangasinan that aims to improve the socio-economic conditions of the beneficiaries through sustainable enterprises and boost the carabao and livestock industries. 🇵🇭

## Cagayan farmers gear up...

### From page 5

To ensure that farmers understand their responsibilities in carabao farming, Romulo A. Salas, CBED coordinator of DA-PCC at CSU, explained the details and technical aspects of the contract. It also outlines the role of farmers in undertaking the project and the requirements that they need to fulfill. 🇵🇭

# LGUs, AI technicians collaborate to boost calf production in Region III

By **Camilla Jane Soliman**

The DA-Philippine Carabao Center at Central Luzon State University (DA-PCC at CLSU) hosted the Artificial Insemination (AI) Convergence and Nurturing event with the theme “Accelerating Calf Production through Artificial Insemination and Bull Entrustment Program” at the Philippine-Sino Center for Agricultural Technology on March 12, 2025.

In his opening remarks, Dr. Ericson Dela Cruz, center director of DA-PCC at CLSU, strongly promoted the use of AI

in breeding and highlighted the critical role of AI technicians in improving breeding practices and enhancing the genetic quality of buffalo herds.

Dr. Edwin Atabay, DA-PCC OIC deputy executive director, commended the DA-PCC at CLSU for its significant contributions to calf production, artificial insemination, and milk production.

Erwin DC. Encarnacion, DA-PCC at CLSU’s AI coordinator, presented an overview of the AI status and achievements in Region III over the past three years. He highlighted the number of active local government units and village-based AI technicians, as well as the contributions of AI in the region, including the number of calves produced.

Ronaldo Salazar, bull entrustment program coordinator, provided an update on the program’s status. He reported that a total of 64 bulls have been distributed in Region III from 2022 to 2024. Specifically, 23 bulls were loaned out in 2022, 18 in 2023, and another 23 in 2024.

The activity also included lectures on “Strategies in Accelerating Buffalo Calf Production,” presented by Dr. Atabay and “Female Reproductive Organ Monitoring: A Practical Guide for AI in Water Buffaloes” delivered by Dr. Peregrino Duran, Scientist I.

An open forum, led by Arman Anyayahan, assistant AI coordinator and AI technician of DA-PCC at CLSU, was held to provide attendees with the opportunity to raise issues, concerns, and suggestions on improving AI practices.

Additionally, a pledge of commitment was made, symbolizing the dedication of everyone involved, including the technicians and the DA-PCC staff at CLSU, to work towards the improvement of the carabao industry.

Certificates and incentives were also presented to outstanding AI technicians with the highest calf drop rates. The recipients were Lito R. Lopez, Larry Deonoso, Luisito Q. Espiritu, Eduardo B. Manuson, Arman P. Anyayahan, and Antonio N. Rutaquio. **B**

## DA-PCC embarks on carabao...

From page 7

collaborations and strong partnerships that can reach other areas of Bukidnon,” Dr. Paraguas added.

Provincial Governor Rogelio Roque shared his message of support the province and co-op will closely cooperate with local government units and other partners to ensure

that the resources will be used to improve the livelihood of the community.

Dr. Paraguas signed the MOA and Gov. Roque, and witnessed by DA-PCC at CMU CBED Coordinator Dr. Elena Paraguas, and Acting Provincial Veterinarian Dr. Kharinine Escasinas. **B**

## DA-PCC at USM receives...

From page 8

number of completed journal entries and was among the top delivery units for the agency’s major final output. The employees of the center were also recognized for their individual achievements. Armea J. Tayongtong ranked Top 2 for journal entry completion, while Rodolfo Valdez Jr. was named Top 3 among the top performing

regional knowledge managers.

DA-PCC at USM Center Director Geoffray R. Atok said that these recognitions reflect the center’s ongoing commitment to regional development, excellence in agricultural programs, and outstanding organizational performance. **B**

## DA-PCC expands...

From page 10

“OMK! is a communication campaign designed to raise our farmers’ knowledge and comprehension of AI services, which will result in their involvement in our upgrading program. We should do this in more areas,” Rabanal said.

Meanwhile, different partners and stakeholders show continued commitment in harnessing the upgrading program of DA-PCC.

Director Atok emphasized the convergence needed to deliver not only security interventions but comprehensive services for lasting peace in communities with marginalized populations. **B**



# Olivia: The AI wonder woman of Pangasinan

From page 1

woman who could help them improve their livestock.

Olivia Palazo is no ordinary woman; she is the only female village-based artificial insemination technician (VBAIT) in the entire province. Her skill in artificial insemination (AI) is so exceptional that she's become a local celebrity, a name known across the western part of Pangasinan. Her last name, Palazo—meaning “arrow” in English—seems to be destined for her, reflecting her precision and expertise in this field.

Her reputation as a skilled AI technician was paved when she was awarded the title “Huwarang Juana sa Kalabawan” at the 9th National Carabao Conference in 2023. Additionally, the local government of Alaminos recognized her for her significant contribution to the development of the livestock industry in the province.

Olivia's weekly schedule is packed with appointments, as she and her

husband, Manuel, travel tirelessly across the villages of western Pangasinan, offering AI services to farmers in need.

“Whether it's good or bad weather, night or dawn, I can't say no to farmers. Once the estrus cycle passes, it's too late to inseminate; it's lost opportunity,” she explains.

In one day, Olivia can service anywhere from three to nine buffaloes. For distant locations, she charges PHP1,000 and PHP800 for areas nearby.

“When a farmer can't afford the fee, I accept whatever they can offer. It's about helping them, not just the money,” Olivia shares. But Olivia is not only an AI technician; she is a passionate leader. As president of the Alaminos City Carabao Raisers Association (ACCRA), she envisions a thriving future for carabao farmers in the area. In an effort to uplift the ACCRA members, Olivia offers her AI services for free to association members.

“My greatest fulfillment comes from seeing farmers happy, every time they receive news that their carabaos are pregnant. To bear witness of their joy is what I consider my greatest reward,” she says.

Olivia's commitment to education also shines through. Though she is a former teacher, her love for learning and teaching never waned. She attended a training at the DA-PCC at Don Mariano Marcos State University (DMMMSU) to become a facilitator for the Farmer Livestock School on Dairy Buffalo Production (FLS-DBP). As one of the first facilitators in Pangasinan, Olivia has



***I may be a small woman, but I can perform the same work as any man.***

## OLIVIA PALAZO

VBAIT, ACCRA PRESIDENT

empowered many farmers with essential knowledge in this aspect.

For Olivia, courage was the key to overcoming her initial hesitation. Over time, she gained confidence and proved that women, too, can succeed as VBAITs.

“I may be a small woman, but I can perform the same work as any man,” she says proudly.

Though Olivia is a dedicated VBAIT and a respected leader, her family remains her top priority. At home, she is a loving wife to Manuel and a devoted mother to their only child, Elijah Noelle.

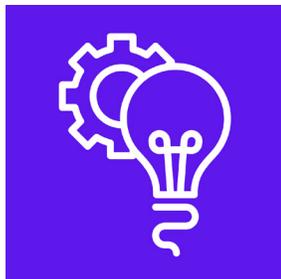
“Sundays are important to us. We go to church, enjoy lunch, and have dinner together. My family's support is my strength,” Olivia says.

Today, Olivia is reaping the fruits of her hard work in AI. Her family has built their dream house, purchased their dream car, and can afford to send their child to college. Olivia's journey is one of perseverance, skill, and love for her community—and she continues to inspire farmers and women across Pangasinan. **B**





# INNOVATIVE SOLUTIONS FOR SUSTAINABLE LIVESTOCK PRODUCTION



## PRODUCT DEVELOPMENT

**Karabun** is a nutritious, appetizing 80g bun (bread) enriched with carabao's milk, developed to combat malnutrition among children, particularly in school-based feeding programs.

**Nyogurt**, a portmanteau of niyog (local term for coconut) and yogurt, is an innovative and premium creamy yogurt that blends the richness of coconut milk with the high-nutritional content of carabao's milk.

**Kardeli**, short for "carabao meat delicacy," is a premium-quality meat product derived from expertly bred and raised young carabaos. By employing advanced ageing techniques, Kardeli ensures tenderness and elevates carabao meat to a premium status, offering a healthier alternative to traditional meats.

**Karapops** are soft, chewy, fruity, and creamy bite-sized milk candy balls made from premium carabao's milk. This innovation transforms the traditional pastillas de leche into a more modern, vibrant, and appealing confection, suitable for both kids and adults.

**Sterilized milk** involves the advanced processing of carabao's milk to produce a shelf-stable, high-quality dairy product suitable for distribution in remote and rural areas. Utilizing state-of-the-art retort equipment, the milk undergoes a sterilization process that eliminates harmful microorganisms, ensuring its safety and longevity without the need for refrigeration.

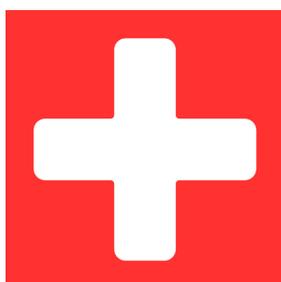


## ANIMAL BREEDING & GENOMICS

**Verisire** is the Philippines' first microsatellite-based DNA parentage testing service designed for breeding animals, particularly cattle and water buffaloes. This technology provides an objective method for verifying sire identity, enabling breeders to make informed decisions based on genetic worth. Verisire plays a critical role in breed registry and pedigree documentation, ensuring accurate lineage tracking and improved breeding programs.

**A2 Choice** is a DNA-based genetic screening service that differentiates between the beta casein A1 and A2 milk variants in dairy cattle and buffaloes.

**Identifying Blood Percentage Proportion Using Microsatellite Markers** is a DNA-based system utilizing microsatellite loci for breed identification is crucial for establishing fair market prices and enhancing the overall value of the animals. Traditional identification methods based on morphology are inadequate for animals lacking detailed pedigree records. Molecular tools now enable the estimation of riverine bloodline composition in crossbred buffaloes using genetic markers, specifically microsatellite or short tandem repeats (STRs).



## ANIMAL HEALTH

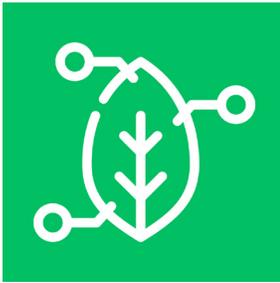
**Quick Care** is a rapid, pen-side screening test designed for the detection of Caprine Arthritis Encephalitis Virus (CAEV), a growing concern in the Philippine goat industry.

**Leptospirosis PCR Testing** utilizes the polymerase chain reaction (PCR) method to detect pathogenic strains of *Leptospira* spp. in dairy animals.

**Interferon-Gamma Release Assay** is an additional layer of diagnostic tests for bovine tuberculosis (BTb) in large ruminants.

**Quik D-TECT** is a practical, rapid, and cost-effective screening tool for Lumpy Skin Disease (LSD), a viral disease affecting Asian water buffaloes and cattle.

**KBGAN iHealth®** is a mobile application tailored for carabao health management.



## ANIMAL NUTRITION

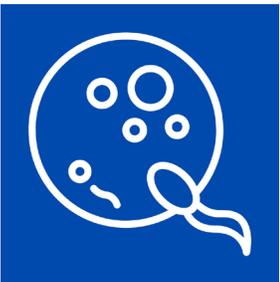
**Enhanced Rice-straw (eRS)** is a sustainable and cost-effective feed solution designed to improve the nutritional value of rice straw, a commonly available by-product in rice farming. This technology enhances the physical and chemical properties of rice straw to increase its digestibility and nutritional content.

**Buro Booster** is a specialized technology utilizing *Lactobacillus* inoculants to enhance the fermentation process in silage production. This innovative solution improves the fermentation quality and nutritive value of silage from forages such as grass, corn, sorghum, and others.

**KBGAN iFeed®** is a state-of-the-art mobile app that optimizes feed formulation for dairy buffaloes. The app generates customized feed plans based on nutritional requirements, production goals, and cost considerations, ensuring proper nourishment and maximizing milk production.

This technology aims to enhance the growth and milk production of dairy buffaloes through the combined use of **home-grown forages (HGF)** such as napier grass and legumes and a **complete nutrient diet (CND)**.

**BlockMate** is a specialized supplementary feed designed specifically for ruminants such as cattle, carabao, goats, and sheep. It is a mixture of urea, molasses, minerals, micronutrients, cement, and legumes shaped into blocks, formulated to enhance digestion and boost the overall productivity of ruminants.



## ANIMAL REPRODUCTION

**MOET (Multiple Ovulation and Embryo Transfer)** is an advanced assisted reproductive technique used in livestock breeding in cattle. It involves inducing superovulation in a donor female to produce multiple ova, which are fertilized via AI.

**Semen analysis using a Computer-Assisted Sperm Analyzer (CASA)** provides an objective and quantifiable assessment of semen quality in livestock species such as water buffaloes, cattle, and goats.

The recently developed laboratory-based method for pregnancy diagnosis in water buffaloes offers an alternative approach to traditional pregnancy diagnosis such as trans-rectal ultrasonography and rectal palpation.

**Sperm Rescue** is a technique for recovering and preserving spermatozoa from the cauda epididymis of slaughtered or deceased genetically valuable farm animals.

**Goat Epididymal Sperm Cryopreservation** is a technique for preserving spermatozoa from the cauda epididymis of testicles after castration or slaughter.

Artificial Insemination (AI) using frozen semen from genetically superior goats is a proven tool for breed improvement, enhancing both milk production and carcass yield. However, natural estrus cycles in goats vary, making AI scheduling unpredictable. To address this, two synchronized breeding techniques—**Estrus Synchronization-Artificial Insemination (ES-AI)** and **Ovulation Synchronization-Fixed Time Artificial Insemination (Ovsynch-FTAI)**—are used to optimize reproductive efficiency and ensure a programmed AI schedule.

**In vitro embryo production (IVEP)** in water buffaloes involves collecting oocytes from donor females, followed by maturation, fertilization with high-quality sperm, and embryo development in a controlled laboratory setting.

**Hormone Priming** is a reproductive management technique designed to synchronize the breeding of non-descript goats, commonly found in smallholder farms. These goats, while smaller in size, play a crucial role in rural food security and serve as a readily available source of income for farmers. By controlling the breeding season through hormone treatment, farmers can ensure that kidding occurs when sufficient forage is available, optimizing reproductive efficiency and herd productivity.

**Fixed-Time Artificial Insemination (FTAI)** is a reproductive biotechnology technique which mainly involves induction of ovulation and estrus.

# 2024 *Outstanding* EMPLOYEES



## *outstanding* CENTER DIRECTOR

**ERICSON N. DELA CRUZ**

DA-PCC at CLSU

For his exemplary leadership, dedication, and innovation in advancing the mission of the DA-Philippine Carabao Center. His visionary initiatives, including the promotion of carabao hide for leather production (Cara Cuero), carabao horn for novelty items, and groundbreaking research on dairy and meat processing, have significantly contributed to industry development, stakeholder partnerships, and sustainable livelihood opportunities.

His steadfast commitment to organizational excellence, mentorship of future carapreneurs, and unwavering public service has elevated the standards of agricultural research, enterprise development, and institutional governance. His efforts in resource generation and strategic collaborations continue to shape a more resilient and innovative carabao industry.



## *outstanding* RESEARCHER

**ROSELINE D. TADEO**

REPRODUCTION AND PHYSIOLOGY SECTION, RDD  
DA-PCC NHGP

For her exemplary contributions to scientific research in the field of reproductive physiology, particularly in advancing pregnancy detection in water buffaloes through innovative laboratory techniques and the development of a lateral flow pregnancy test kit. Her dedication to pioneering studies on early pregnancy diagnosis and sperm factor PLCZ has significantly enriched the field of animal reproduction, supporting the enhancement of reproductive efficiency and productivity. Her commitment to excellence, unwavering pursuit of scientific advancement, and invaluable service in facilitating technical and administrative functions within the Reproduction and Physiology Section have set a benchmark of professionalism and innovation for the DA-Philippine Carabao Center.



## *outstanding* DEVELOPMENT OFFICER

**GAUDIOSO B. CALIBUGAN**

DA-PCC AT USF

For his unwavering commitment to the welfare of the carabao farmers, exemplary leadership in community-based enterprise development, and significant contributions to the growth of the carabao industry in Cebu, Bohol and Masbate. His dedication, expertise, and compassion have transformed the lives and livelihoods of countless carapreneurs, empowering them with the skills and opportunities to thrive. His efforts in engaging 2,419 farmers, establishing partnerships with 19 farmer groups and teaching innovative approach on financial management through the Savings Mobilization for Investments to Livelihood and Empowerment (SMILE) have boosted their morale and financial resilience thus strengthening the carabao entrepreneurship in the region. Additionally, his integrity and efficiency in procurement and financial transactions have ensured operational excellence and fostered trust and sustainability at the DA-PCC at USF.

*outstanding*  
**CONTRACT  
OF SERVICE  
PERSONNEL**

**REGIONAL CENTER**

Manuel C. Dominguez - DA-PCC at CLSU  
Cherrybel D. Ladia - DA-PCC at CSU  
Jennelyn L. Soriano - DA-PCC at DMMSU  
Noel T. Pagtama - DA-PCC at MMSU  
Pinky M. Brill - DA-PCC at UPLB  
Louie Jee C. Huelar - DA-PCC at LCSF

Larry C. Maderse - DA-PCC at WWSU  
Mateo C. Zeta - DA-PCC at VSU  
Ruel C. Aton - DA-PCC at USF  
Jeson C. Candole - DA-PCC at CMU  
Josephine S. Mendoza - DA-PCC at MLPC  
Grecelyn C. Roilo - DA-PCC at USM

**HEADQUARTERS**

Therese Patricia C. Cailapan - RDD  
Camille F. De Gracia - KMD

Angelica V. Gavina - AFMD  
Giselle M. Sacupaso - PIMD

*outstanding*  
**SUPERVISOR**

**CHERRY PEARL C. RIVERA**

ACCOUNTING SECTION, AFMD  
DA-PCC NHGP

For her exceptional leadership as a supervisor, effectively and consistently fostering a positive, inclusive, and collaborative work culture that inspires her team to maintain the highest standards of excellence, efficiency, and transparency. As an accountant, her strong commitment to integrity and professionalism has ensured strict adherence to all relevant rules, regulations, and financial management practices. Her dedication to efficiency and transparency has earned DA-PCC consistent recognition and awards for exemplary financial management. Her unwavering commitment continues to strengthen accountability and trust in public service.



*outstanding*  
**SUPPORT STAFF**

**JENNIFER F. MARAMBA**

ANIMAL BREEDING AND GENOMICS SECTION, RDD  
DA-PCC NHGP

For her unwavering support and dedication in assisting regional centers in establishing and maintaining a comprehensive database of animal and herd records, particularly the Buffalo Breed Registry System. Her invaluable contributions to the Philippine Carabao Center's Animal Breeding and Genomics Section have significantly enhanced data management and genetic improvement initiatives, supporting the growth and sustainability of the carabao industry in the country.



*top performing*  
**REGIONAL CENTER**



**DA-PCC at  
UNIVERSITY OF  
SOUTHERN MINDANAO**

*top performing*  
**UNIT**

**KMD**

**KNOWLEDGE  
MANAGEMENT  
DIVISION**



[www.pcc.gov.ph](http://www.pcc.gov.ph)
[DA-Philippine Carabao Center](https://www.facebook.com/DA-Philippine-Carabao-Center)
[Philippine Carabao Center](https://www.youtube.com/Philippine-Carabao-Center)
[@dapcc\\_official](https://www.instagram.com/dapcc_official)

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#### DA-PCC at USF

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#### DA-PCC at MLPC

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#### DA-PCC NHGP

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