



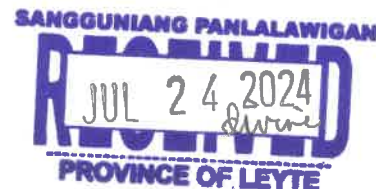
Republic of the Philippines
BUREAU OF AGRICULTURAL AND FISHERIES ENGINEERING
SRA Compound, Annex II Building Ext.
North Avenue, Diliman, Quezon City
(02) 8351-8120, (02) 8294-9741

Item No.: 12

Date: 30 2024 JUL

12
10
18 July 2024

HON. SANDY JAVIER
Vice Governor
Sangguniang Panlalawigan
Province of Leyte
6500 Tacloban City, Leyte



Attention : Committee on Appropriation

Subject : Request for the inclusion of the budgetary requirements on the creation of Provincial Agricultural and Biosystems Engineer and its Office in FY 2025 Provincial Appropriation Ordinance

Dear Vice Governor Javier:

The Bureau of Agricultural and Fisheries Engineering (BAFE), pursuant to Section 24 of RA 10601 is mandated to coordinate, oversee and monitor the national planning and implementation of agri-fisheries mechanization and infrastructure projects including the strengthening of the agricultural and biosystems engineering groups/offices of LGUs.

Relative to this, and in view of the powers of the Sanggunian Panlalawigan under Sections 319 and 458 (2i) of RA 7160 (Local Government Code), may we request the inclusion of the budgetary requirements for the creation of Provincial Agricultural and Biosystems Engineer (SG-26), including its office and operation in the Provincial Appropriation Ordinance for FY 2025.

This request is based on the following policy issuances/directives:

- 1) **DBM Local Budget Memorandum No. 90 dated June 13, 2024 entitled, "Indicative FY 2025 National Tax Allotment (NTA) Shares of Local Government Units (LGUs) and Guidelines on the Preparation of the FY 2025 Annual Budgets of LGUs".** Item No. 2.2.14 and 2.2.23 states :

"2.2.14 In accordance with Section 29 and Section 38 of RA No. 10601, Department of Agriculture (DA) - DILG JMC No. 2018-02 dated August 02, 2018¹⁴⁸, and DA-DBM-Civil Service Commission (CSC)- DILG JMC No. 02, s. 2020 dated June 24, 2020¹⁴⁹, LGUs are enjoined to allocate funds for the development and implementation of devolved and mandated local agricultural and fisheries mechanization, irrigation, farm-to-market roads, and other related infrastructure programs and projects.

¹⁴⁸ National Guidelines for the Registration of Ownership of Agricultural and Fisheries Machinery and Equipment

¹⁴⁹ Implementing Guidelines on the Strengthening and Establishment of the Agricultural and Biosystems Engineering Groups of the Local Government Units (LGUs)



2.2.23 XXX Moreover, the LGUs are reminded to conform with the CSC MC No. 12 dated November 8, 2022¹⁵⁰”.

The devolved and mandated functions which the OPABE shall assume are listed in page 2-9 of the Local Government Unit Guidebook in the creation of the Office of Provincial, City and Municipal Agricultural Engineer posted in BAFE website, bafe.gov.ph.

- 2) **Section 4 of CSC MC No. 12 of 2022-** prescribed that the Provincial Agricultural and Biosystems Engineer (PABE) is now mandatory position in LGUs, in view of the implementation of Section 34 of RA No. 10915. Relative to this, Section 5 of this CSC Circular further prescribed that LGUs shall create mandatory positions such as the PABE, in accordance with the limitations provided under the law and the CSC guidelines, **and shall have the corresponding budget, approved by the Sanggunian**, to be considered valid. Qualification standards of PABE (Salary Grade 26) are prescribed under CSC MC No. 6, series of 2023, Annex C.1.

Attached as Annex A is the estimated cost of creating OPABE, to include its MOOE and capital outlay requirements and Annex B, the list of technical and scientific equipment, its specifications and cost estimates, for the operation of OPABE We have provided to the Honorable Governor a *“Template in the Preparation of Plan and Budget Proposal of the Provincial/City and Municipal Agricultural and Biosystems Engineering Offices/Units for FY 2025 and Onwards”* for reference .

With the increase of National Tax Allocation (NTA) from P695.49 Billion IRA in 2021 to P871.32 Billion NTA in 2024, and further increase to P1.034 Trillion in 2025 as per Local Budget Memorandum Circulars Nos. 80 of 2020, 87 of 2023 and 90 of 2024, wherein 45-55% shall be used for Personal Services (PS), there is fund/fiscal space for the creation and operation of OPABE.

Pursuant to the mandate and power of the Sangguniang Panlalawigan (SP) in Section 327 of the Local Government Code, we would like to further request that the funding requirements on creation of Municipal Agricultural and Biosystems Engineer (Salary Grade 24) and City Agricultural and Biosystems Engineer (SG-25) and their Offices shall be part of the review of SP on the Appropriation Ordinance for FY 2025 and onward of the municipal LGUs and component city LGUs of your province.

Thank you.

Very truly yours,



ENGR. ARIODEAR C. RICO
Director IV

¹⁵⁰ Guidelines and Standards in the Establishment of Organizational Structures and Staffing Patterns in Local Government Units.



ANNEX A. COST OF CREATING OPABE

	Position	SG	Base Salary	Annual Salary	Class Type (%) 1st Class	For Creation			Other Benefits (see Benefits sheet)	Total per staff	Total Cost (FY 2025)	Total Cost (FY 2026-2028)	TOTAL Cost of Devolution
						Total (required)	FY 2025	FY 2026-2028					
1	Provincial ABE (Dept Head) PGDH	26	₱116,040.00	₱1,392,480.00	100%	1	1	0	₱592,777.60	₱1,985,257.60	₱1,985,257.60	₱0.00	₱1,985,257.60
2	Assistant Provincial ABE - PGADH	24	₱90,078.00	₱1,080,936.00		1	0	1	₱491,468.32	₱1,572,404.32	₱0.00	₱1,572,404.32	₱1,572,404.32
3	Engineer IV	22	₱71,511.00	₱858,132.00		3	1	2	₱335,560.48	₱1,193,692.48	₱1,193,692.48	₱2,387,384.96	₱3,581,077.44
4	Engineer III	19	₱51,357.00	₱616,284.00		6	2	4	₱261,393.76	₱877,677.76	₱1,755,355.52	₱3,510,711.04	₱5,266,066.56
5	Engineer II	16	₱39,672.00	₱476,064.00		6	2	4	₱218,392.96	₱694,456.96	₱1,388,913.92	₱2,777,827.84	₱4,166,741.76
6	Engineer I	12	₱29,165.00	₱349,980.00		6	4	2	₱179,727.20	₱529,707.20	₱2,118,828.80	₱1,059,414.40	₱3,178,243.20
7	Supvising Administrative Officer	22	₱71,511.00	₱858,132.00		1	0	1	₱335,560.48	₱1,193,692.48	₱0.00	₱1,193,692.48	₱1,193,692.48
8	Administrative Officer V	18	₱46,725.00	₱560,700.00		2	1	1	₱244,348.00	₱805,048.00	₱805,048.00	₱805,048.00	₱1,610,096.00
9	Administrative Officer III	14	₱33,843.00	₱406,116.00		3	0	3	₱196,942.24	₱603,058.24	₱0.00	₱1,809,174.72	₱1,809,174.72
10	Planning Officer II	15	₱36,619.00	₱439,428.00		1	1	0	₱207,157.92	₱646,585.92	₱646,585.92	₱0.00	₱646,585.92
11	Administrative Assistant III	9	₱21,211.00	₱254,532.00		1	1	0	₱150,456.48	₱404,988.48	₱404,988.48	₱0.00	₱404,988.48
12	Administrative Assistant Aide	4	₱15,586.00	₱187,032.00		1	0	1	₱129,756.48	₱316,788.48	₱0.00	₱316,788.48	₱316,788.48
TOTAL						32	13	19			₱10,298,670.72	₱15,432,446.24	₱25,731,116.96

AVAILABLE FUNDING RESOURCES FOR THE CREATION AND OPERATION OF OPABE- FROM IRA TO NTA (SAMPLE)

PROVINCE	Income class	IRA 2021	NTA 2022	INCREASE (NTA 2022-IRA 2021)	AVAILABLE PS (45% OF THE NTA INCREASE)
ORIENTAL MINDORO	1st	1,869,298,989	2,349,641,499	480,342,510	216,154,129.50
OCCIDENTAL MINDORO	2nd	1,705,480,643	2,319,641,499	644,160,855.96	289,872,385.18

SOURCE: DILG full Disclosure website

NOTE:

NTA for FY 2025 will increase as:

NTA in 2024 – Php 871.32 Billion


NTA for 2025 – Php 1.034 Trillion




Source: DBM Local Budget Memorandum No. 87 (2023) and No. 90 (2024)

ANNEX B: ICT AND TECHNICAL & SCIENTIFIC EQUIPMENT

I. 1ST YEAR (FY 2025)

ICT EQUIPMENT	TECHNICAL SPECIFICATIONS	UNIT COST
1. High End Laptop	<p>Laptop specifications:</p> <ul style="list-style-type: none"> -Keyboard: Blue Backlit Gaming Keyboard -Panel: 15.6" FHD (1920*1080), 144Hz 45%NTSC IPS-Level -GPU, V-RAM: RTX 4050, GDDR6 6GB -Chipset: Integrated SoC -CPU: Raptor Lake i7-13620H -At least total 10 cores, 16 threads, min 3.60 Ghz and max 4.90 Ghz Max Turbo, 24 MB Intel Smart cache -Memory: DDR IV 16GB*2 (3200MHz) -Storage: 512GB NVMe PCIe SSD Gen4x4 w/o DRAM + 1 TB HDD -WLAN: Intel® Wi-Fi 6E AX211 -Webcam/Audio: At least HD cam (30fps@720p), 2x 2W Speaker, Hi-Res Audio Certified -Connectivity: Minimum of 1xType-C USB3.2 Gen1 w/ DP1.4, 2 X Type-A USB3.2, 1 x HDMI (4K@30Hz), 1x --Mic-in, 1x headphone-out, 1x RJ45, 1x DC-in - Keyboard: Single Blue Gaming Keyboard & Transparent WASD keys - Adapter/Battery: 120W 3-Cell, 52.4 Whr -Inclusive of Endpoint security and web filter features -With Latest Windows Professional Operating System (64-bit) licensed, at least 1 year free subscription for Antivirus, Office software (Perpetual), and PDF editor (Perpetual) -With Laptop Bag and Wireless mouse - With warranty at least 1-year 	<p>Php 150,000.00 (as of 2024)</p>
2. Polyester Sticker Printer & Polyester Sticker (for registration of machineries)	<p>Polyester Sticker Printer specifications</p> <ul style="list-style-type: none"> - 203dpi, Thermal Transfer/Direct Thermal - 4-5 Inch/s printing speed - 104mm (4.09) Max printing width - 2286mm (90) Max printing length - 300M Ribbon length - Media Paper Type: Continuous, gap, fan hold, black mark 	<p>Php 17,000.00 (as of 2022)</p>

	<ul style="list-style-type: none"> - Media width: Max 120mm (4.72"), Min: 20mm (0.78") - Media gap: Min.2mm - Media Thickness: 0.058mm-0.305mm - Drive: Windows 2000、XP、 Vista、 Win7、 Win8、 Windows Server 2003&2008 - Power supply: Input: AC 110V/240V, Output: DC24V/2.5A,60W - USB interface <p>Polyester Sticker specifications</p> <ul style="list-style-type: none"> - Die-cut 50mm x 50mm sticker - Media Roll Core Size: 25.4mm~38mm - Media gap: Min.2mm - Media Thickness: 0.058mm-0.305mm - Paper type: Polyester - Bundled with Thermal Transfer Ribbon 	
TECHNICAL & SCIENTIFIC EQUIPMENT	TECHNICAL SPECIFICATIONS	UNIT COST
<p>1. Laser Measurer</p> 	<p>Technical Specifications:</p> <ul style="list-style-type: none"> -Must be at least IP 65 -Must have 360° tilt sensor -Must have smart horizontal mode -Must be height tracking -Must be power range technology -Must be Illuminated 4-line display -Must have automatic multifunctional end-piece -Can measure up to 120 m -Must include 2 sets of compatible rechargeable batteries and a charger of the one set of battery -Must include user manual -At least 1 year warranty 	<p>Php 28,000.00 (as of 2020)</p>
<p>2. Range Finder</p>	<p>Technical Specifications:</p> <ul style="list-style-type: none"> -Can measure 10m to 500m or more -Must be battery operated -Must have 6x magnification monocular -Must be waterproof 	<p>Php 78,000.00 (as of 2020)</p>

	<ul style="list-style-type: none"> -Must have viewfinder and external display -Must be capable to measure linear & horizontal distance, height, angle, vertical separation among others -Must include 2 sets of compatible rechargeable batteries and a charger of the one set of battery -Must include user manual -At least 1 year warranty 	
<p>3. Concrete Test Hammer</p> 	<p>Technical Specifications:</p> <ul style="list-style-type: none"> -Can measure impact energy at least 2.207Nm -Can measure concrete compressive strength between 10-100 N/mm² -Can store at least 90 impacts in series -Must be ergonomically designed for easy handling -Must have a readable display under any conditions -Must be sealed to prevent the penetration of dust and dirt -Must have the capacity to upload data via USB -Must include accessories per user manual -Must be battery operated -Must include a set of rechargeable compatible batteries and charger -At least 1-year warranty 	<p><i>Php 196,000.00</i> <i>(as of 2020)</i></p>
<p>4. Rebar Locator</p> 	<p>Technical Specifications:</p> <ul style="list-style-type: none"> -Must have a colored display with touch screen operation -Can measure and detect up to 185mm deep -Must have a cover accuracy of +/-4mm -Must have pre-installed software for downloading of data and customized reports -Must be upgradable -Must include compatible rebar locator, cover meter, universal probe, detachable wheeled scanning cart, at least 5ft Probe Cable, power supply, carrying case and strap -Must have at least 8GB Internal Flash Memory -Must be battery operated -Must include a set of rechargeable compatible batteries and charger -At least 1-year warranty 	<p><i>Php 387,000.00</i> <i>(as of 2020)</i></p>
<p>5. Pyranometer & Quantum Sensor with Light Sensor Logger</p>	<p>Technical Specifications:</p> <p>a. Pyranometer</p> <ul style="list-style-type: none"> -Spectral range is within 400-1100nm -Sensitivity is at least 75 μA per 1,000 W/m² -Response time is at most 1s -Temperature dependence is within \pm 0.15% per $^{\circ}$C maximum 	<p><i>Php 467,000.00</i> <i>(as of 2022)</i></p>



- Operating temperature capacity must be at least -40°C to 65°C
- Relative Humidity range must be at least 0% to 95% RH, Non-Condensing
- Cable length is at least 2m
- Must include compatible levelling plate
- Must include compatible communication cable for data processing to the computer
- At least 1 year warranty


b. Quantum Sensor


- Wavelength range is within 400-700nm
- Sensitivity is at least $5\ \mu\text{A}$ - $10\ \mu\text{A}$ per $1,000\ \mu\text{mol}/\text{m}^2\text{s}$
- Response time is at most 1s
- Temperature dependence is within $\pm 0.15\%$ per $^{\circ}\text{C}$ maximum
- Operating temperature capacity must be at least -40°C to 65°C
- Relative Humidity range must be at least 0% to 95% RH, Non-Condensing
- Cable length is at least 2m
- Must include compatible levelling plate
- Must include compatible communication cable for data processing to the computer
- At least 1 year warranty


c. Light Sensor Logger

- Must be compatible with pyranometer & quantum sensor
- Must have 3 connectors for different sensors
- Output channels are light, different math channels, gps, prompt & battery voltage
- Standard modes are continual, manual, daily, one time
- Must have a raw mode sampling every sample from 1Hz-500Hz
- Operating temperature range is at least -40°C to 65°C
- Data Storage capacity is at least 1GB
- Must have 1 set of rechargeable batteries with charger, AC-DC power adapter
- Battery Life is at least 80 hrs for typical usage (1Hz sampling and logging rate)
- At least 1 year warranty

II. 2ND YEAR (FY 2026)

TECHNICAL & SCIENTIFIC EQUIPMENT	TECHNICAL SPECIFICATIONS	UNIT COST
<p>1. Subsurface Mapping Resistivity meter</p> 	<p>Technical Specifications: Measuring Unit: -Electric current supply system: Constant current -Output current: Auto 1, 2, 5, 10, 20, 50, 100 and 200mA -Output voltage: Maximum 400V (800V peak to peak) -Channel: 8 channels (AD channel isolated type, 24 bit) -System Control: -CPU: Intel Core i5 or higher -OS: Windows 10 Pro 64 bit -System Memory: 4 GB RAM or higher -Display: FHD, touch panel with IPS liquid crystal display -Internal Memory: SSD 128 GB -Interface: USB 3.0 at least 1 port and USB 2.0 at least 3 ports</p> <p>Features -Must be Internet of Thing compliant (IoT). -8-channel simultaneous measurement can shorten the data acquisition time at the site. -System is expandable up to 192 electrodes with scanners. -Full-automatic measurement with the control program, automatic timed measurement by the internal clock. -With Scanner 32 -At least 1-year warranty</p> <p>Accessories: -4rolls Take-out cable, 8ch. 10m spacing -44pcs Electrodes (stainless steel) -4pcs Electrode AB -2rolls Cable with reel, 400m red color -2rolls Cable with reel, 400m black color -1set Tester -1set Workshop tool</p>	<p><i>Php 5,385,000.00 (as of 2019)</i></p>

	<ul style="list-style-type: none"> -2units External battery with charger -1unit Interpretation software -1unit Resistivity Software for 2D Analysis -Inclusive of 1 unit brand new laptop 	
<p>2. GNSS Real Time Kinematic (RTK) [Base & Rover]</p> 	<p>Technical Specifications:</p> <ul style="list-style-type: none"> -Must have at least 1,500 channels with dual-core engine -Measuring range must be within 8-15km long internal radio link -With fast IMU and with maximum tilt of 60 degrees -With intelligent cloud platform & storage technology -With built-in 8gb solid-state storage -Can gather at least multiple satellite signals such as: BeiDou, GPS, Galileo, Glonass, SBAS, L-band, QZSS -Must be static and/or fast static accuracy <ul style="list-style-type: none"> a. Horizontal ranges from 2.5mm+0.5ppm or more accurate b. Vertical ranges from 5mm+0.5ppm or more accurate -Real Time Kinematic/Network RTK accuracy <ul style="list-style-type: none"> a. Horizontal ranges from 8mm+1.0ppm or more accurate b. Vertical ranges from 15mm+1.0ppm or more accurate -Initialization time is approximately 10 seconds -Frequency ranges from 410-470 MHz -Communication protocols are Fairlink, Trimtalk450s, South, Huace, Hi-target, Satel -Must be Wi-Fi and bluetooth ready for configuration, operation, status, and data transfer -Must be shock and vibration resistant -Controller software can display electronic bubble -With built-in thermometer sensor and IMU module -Must be IP standard: IP67/68 (waterproof/dustproof) -Batteries life can last up to 10 hrs -Must include additional set of batteries -Must include components listed in the brochure/user manual -Must include user manual -At least 1-year warranty <p>GNSS Controller:</p> <ul style="list-style-type: none"> -Must be compatible with the GNSS receiver -Software of the tablet must be compatible with the existing surveying software of South G6 GNSS -Must have durable housing and with shockproof cover -Must be IP standard: IP67/68 (waterproof/dustproof) -Must have pre-installed license survey software with cad stake-out functions -License survey software must include lot plotting and satellite view software 	<p><i>Php 1,000,000.00</i> <i>(as of 2024)</i></p>

	<ul style="list-style-type: none"> -Must have at least 8GB of RAM -Can store up 128GB storage -Must have large screen size multi-touch display, at least 8 inches -Batteries' life can last up to 7 hours -Must have audio, external speaker/microphone -Must be Wi-Fi, and bluetooth ready -Must have rear and front camera -Must include compatible pole mount bracket -Must include components listed in the brochure/user manual -At least 1-year warranty <p>Accessories:</p> <ul style="list-style-type: none"> -Durable RTK carrying case -Quick-charger for GNSS receiver -At least 4.5dBi Antenna -Controller charger and cable -Downloading cable and Fiberpole -1TB shock-resistant USB 3.1 external hard drive 	
<p>3. Total Station</p> 	<p>Technical Specifications:</p> <ul style="list-style-type: none"> -Must have an autofocus function -Must have tangent clamps and high sensitivity level vials -Must have 2 colored touch-screen LCD back-lit displays -Must have a memory at least 512MB RAM, 4GB Flash memory -Must have an Optical or Class 2 laser internal plummet -Must have a fast and powerful EDM at least 800m range Non-prism -Must have a telescope magnification at least 30x -Must have a field of view of 1°25' -Must have a resolving power at least 3" -Must have a track light -Must have a dual-axis type tilt sensor -Must have a compensation range of +/-3' or better -Must have communication ports such as serial and USB -Must be Bluetooth ready -Must include additional set of compatible batteries and charger -Must have a dust and water protection at least IP66 -Must have a battery life at least 14hrs -Must include 2 compatible prisms with holder 	<p style="text-align: center;"><i>Php 885,000.00</i> <i>(as of 2020)</i></p>

	<ul style="list-style-type: none">-Must include 2 compatible aluminum range poles with graduation and built-in level-Must have heavy duty, aluminum tripod-Must have two-way long-range (at least 5km radius) radio set of 4 with additional set of compatible batteries and charger-Must include user manual-Must include folding working table and tent-at least 1-year warranty <p>Must include post-processing equipment</p> <ul style="list-style-type: none">-Must be compatible with the terrestrial survey instrument-Must have the latest Operating System, and office professional software-Must have a processor speed at least quad-core 2.3 up to 4.0GHz-Must have a memory at least 16GB DDR4 2666MHz SDRAM-Must have an SSD at least 512GB PCIe 2-Must have at least 15.6" FHD display-Must have a graphics card at least 6GB GDDR6 VRAM-Must include a built-in keyboard, audio, camera-Must include I/O ports at least USB 3.1, HDMI 2.0b, headphone and microphone combo jack-Must be Wi-Fi and Bluetooth ready-Must include ergonomic at least 16,000 DPI optical sensor mouse-Must include at least 1TB shock-resistant USB 3.1 external hard drive-At least 1-year warranty	
--	---	--