



Republic of the Philippines  
Province of Cagayan  
TUGUEGARAO CITY



◆NINTH CITY COUNCIL◆

**COMMITTEE REPORT**

August 14, 2025

**Submitted by:**

**COMMITTEE ON PUBLIC SAFETY AND ORDER, AND DISASTER PREPAREDNESS**

**PRESENT:**

**HON. MARK ANGELO B. DAYAG**

-Chairman, Committee on Public Safety and Order and Disaster Preparedness

**HON. JUDE T. BAYONA**

- Vice Chairman, Committee on Public Safety and Order, and Disaster Preparedness

**HON. DENNIS RYAN G. AVILA**

- Member, Committee on Public Safety and Order, and Disaster Preparedness

**HON. RESTITUTO C. RAMIREZ**

-Member, Committee on Public Safety and Order and Disaster Preparedness

**RESOURCE PERSONS:**

**DR. RODERICK ESTEBAN B. RAMIREZ**

-City Disaster Risk Reduction and Management Officer

**BENJAMIN L. NICDAO II**

-DOST Region 02

**EZEKIEL V. REYES**

-DOST Region 02

**NIKO TABANGAN**

-DOST Region 02

**VICTOR PERLAS**

-DOST Region 02

**FOR THE PRESIDING-OFFICER:**

The Committee met and deliberated on the referral:

**COMMITTEE REPORT NO. 23-2025**

**SUBJECT:**

***“Draft Resolution Earnestly Requesting His Excellency President Ferdinand R. Marcos, Jr., The Honorable Chair of The Senate Committee on National Defense and Security, Peace, Unification and Reconciliation (Disaster Risk Reduction), Honorable Speaker Ferdinand Martin G. Romualdez, and the Department of Science and Technology (Dost) for the Provision of A Mobile Command And Control Vehicle (MOCCOV) To Tuguegarao City”***

**ACTION TAKEN:**

The members of the committee met to discuss the subject matter with the presence of the resource person/s.

**FINDINGS:**

1. The Mobile Command and Control Vehicle, also known as (MoCCoV), is a specialized vehicle equipped with advanced communication and surveillance systems, designed to serve as a mobile command center for disaster response.
2. The Tuguegarao City Disaster Risk Reduction and Management Office stated that there is a need for a MoCCoV unit because this serves as an incident command post during

disasters and calamities, and other planned events such as City Meet and Tuguegarao Fiesta.

3. This will significantly enhance the capacity of the City Government of Tuguegarao to respond swiftly and effectively during natural disasters, public health emergencies, and other crises as it is equipped with surveillance, weather monitoring, first aid, and management capabilities and can accommodate 18 persons.
4. The Department of Science and Technology (DOST) has previously granted two units to Cauayan City Local Government Unit, and stated that the estimated cost of one unit of MOCCOV is worth P17.8 million under government procurement.
5. The City earnestly seeks support from the national government, through His Excellency President Ferdinand R. Marcos, Jr. through the Secretary the Department of Science and Technology (DOST), and the Honorable Chairmen of the Senate Committee on National Defense and Senate Committee on Science and Technology, and House Committee Chairman on Disaster Resilience for the allocation or donation of one (1) MoCCoV unit for Tuguegarao City to better equip the local disaster and health response teams.

#### **RECOMMENDATION:**

After a thorough discussion and finding merit in the subject matter, the Committee favorably recommends for the approval of the said resolution earnestly requesting His Excellency President Ferdinand R. Marcos, Jr.; the Honorable Jinggoy Estrada, Chairman of the Senate Committee on National Defense and Security, Peace, Unification and Reconciliation, the Honorable Benigno "Bam" Aquino, Chairman of the Senate Committee on Science and Technology, Honorable Joseph Lasam Lara, Chairman of the House Committee on Disaster Resilience, and Secretary of the Department of Science and Technology (DOST) Renato U. Solidum, Jr., for the allocation or donation of one (1) MOCCOV unit for Tuguegarao City.

**Respectfully Submitted by:**

  
**HON. MARK ANGELO B. DAYAG**

Chairman, Committee on Public Safety and Order and Disaster Preparedness

  
**HON. JUDE T. BAYONA**

Vice Chairman, Committee on Public Safety and Order and Disaster Preparedness

  
**HON. DENNIS RYAN G. AVILA**

Member, Committee on Public Safety and Order and Disaster Preparedness

  
**HON. RESTITUTO C. RAMIREZ**

Member, Committee on Public Safety and Order and Disaster Preparedness

CITY RESOLUTION NO. \_\_\_\_\_

**A RESOLUTION EARNESTLY REQUESTING HIS EXCELLENCY PRESIDENT FERDINAND R. MARCOS, JR., THE HONORABLE JINGGOY ESTRADA, CHAIRMAN OF THE SENATE COMMITTEE ON NATIONAL DEFENSE AND SECURITY, PEACE, UNIFICATION AND RECONCILIATION, HONORABLE BENIGNO "BAM" AQUINO, CHAIRMAN OF THE SENATE COMMITTEE ON SCIENCE AND TECHNOLOGY, HONORABLE JOSEPH LASAM LARA, CHAIRMAN OF THE HOUSE COMMITTEE ON DISASTER RESILIENCE, AND SECRETARY OF THE DEPARTMENT OF SCIENCE AND TECHNOLOGY (DOST) RENATO U. SOLIDUM, JR., FOR THE PROVISION OF A MOBILE COMMAND AND CONTROL VEHICLE (MOCCOV) TO TUGUEGARAO CITY**

Sponsored by:

**HON. MARK ANGELO B. DAYAG  
HON. LOPE B. APOSTOL  
HON. MYRNA G. TE  
HON. MARIEL AYNALING-CALIMAG  
HON. ANTHONY C. TUDDAO  
HON. CERENE PEARL T. QUILANG  
HON. RESTITUTO C. RAMIREZ**

**WHEREAS**, under Section 5, Article II of the 1987 Constitution, the State declares as principle the maintenance of peace and order, the protection of life, liberty, and property, and the promotion of the general welfare are essential for the enjoyment by all the people of the blessings of democracy;

**WHEREAS**, Section 458 (a) (1) (iv) of Republic Act No. 7160 or the Local Government Code of 1991 empowers the Sangguniang Panlungsod to adopt measures to protect the inhabitants of the city from the harmful effects of man-made or natural disasters and calamities, and to provide relief services and assistance for victims during and in the aftermath of said disasters or calamities and their return to productive livelihood following said events;

**WHEREAS**, a Mobile Command and Control Vehicle, also known as (MoCCoV), is a specialized vehicle equipped with advanced communication and surveillance systems, designed to serve as a mobile command center for disaster response;

**WHEREAS**, Tuguegarao City, as the regional center of Cagayan Valley, is a hub for economy, education, and governance, but is frequently exposed to natural disasters such as typhoons, floods, and earthquakes, which necessitate efficient disaster preparedness and rapid response mechanisms for its inhabitants and sojourners;

**WHEREAS**, a MoCCoV will significantly enhance the capacity of the City Government of Tuguegarao to respond swiftly and effectively during natural disasters, public health emergencies, and other crises by serving as a mobile command post that will enable seamless coordination, especially in remote or heavily affected areas;

**WHEREAS**, the Department of Science and Technology (DOST), in partnership with other national agencies, has supported the deployment of science-based and innovative solutions like the MoCCoV in various localities to strengthen community resilience to all forms of disasters and enhance public safety capabilities;

**WHEREAS**, the City earnestly seeks support from the national government, through His Excellency President Ferdinand R. Marcos, Jr.; the Honorable Jinggoy Estrada, Chairman Of The Senate Committee on National Defense and Security, Peace, Unification and Reconciliation, the Honorable Benigno "Bam" Aquino, Chairman of the Senate Committee on Science and Technology, Honorable Joseph Lasam Lara, Chairman of the House Committee on Disaster Resilience, and Secretary of the Department of Science and Technology (DOST) Renato U. Solidum, Jr., for the allocation or donation of one (1) MoCCoV unit for Tuguegarao City to better equip the local disaster and health response teams.

**NOW, THEREFORE, RESOLVED**, as it is hereby **RESOLVED**, to earnestly request His Excellency President Ferdinand R. Marcos, Jr.; the Honorable Jinggoy Estrada, Chairman of the Senate Committee on National Defense and Security, Peace, Unification and Reconciliation, the Honorable Benigno "Bam" Aquino, Chairman of the Senate Committee on Science and Technology, Honorable Joseph Lasam Lara, Chairman of the House Committee on Disaster Resilience, and Secretary of the Department of Science and

Technology (DOST) Renato U. Solidum, Jr., for the allocation or donation of one (1) MOCCOV unit for Tuguegarao City.

**RESOLVED FURTHER**, that copies of this resolution be furnished to the abovementioned offices for their favorable consideration and appropriate action.

On JOINT MOTION, City Resolution No. \_\_\_\_\_ was approved under suspended rules.





Unit	Item Description	Quantity
Set	Mobile Command and Control Vehicle with Triage Technology	1
	Specification	
Vehicle		
Unit	Modified 4x4 Pick Up Powertrain 4x4 Drivetrain 2.0L Turbo Diesel Maximum Power 170 PS @ 3,500 Maximum Torque 405Nm @ 1,750-2,500 rpm 6-Speed Manual Transmission Chassis & Suspension Front Suspension Double Wishbone with Coil Springs Rear Suspension Leaf Spring Front Ventilated Discs/ Rear Drum Wheels & Tires 16" Alloy Wheels 255 / 70R 16 Tires Exterior LED Headlights with Auto On/Off Function C-Clamp LED Daytime Running Lamps Front Fog Lamps Halogen Reflector Tail Lights Power Adjustable, Manual Folding Exterior Mirrors Side Steps and Rear Box Steps Accessories: Mobile Base Radio Wireless Siren  Vehicle must be customized with logo sticker design, with insurance and registrations.	1

Unit	<b>Trailer</b> Trailer Dimension: L 16'ft x 6'8"ft Trailer Trailer Height with Boom - 322 cm Trailer Height with out Boom - 213 cm 40 Sqm Covered Area, Command Center Tent Maximum capacity: 18 persons Capacity: 10,000 lbs Multi-use compartment for rescue equipment Swing out sink rear/kitchen top tailgate Water tank gauge indicator Automatic water pump for faucet Reflectorized trailer side markers Full Color Decal  Suspension and under chassi details:  Round axle with hubs and heavy duty bearings Rear stabilizer swivel legs Front stabilizer swivel legs Tandem wheel and fender with spare tires Front swing/swivel hand jack with tire Electromagnetic brake system Swing out rear tail gate	1
Set	<b>Tent System</b> Material: Wax Poly Cotton Canvas Fabric Annex 1: Mission room convertible to bedroom Annex 2: Kitchen and pantry room Annex 3: Mission Room Separate shower room and portable toilet Annex walls, with extra-large mesh screens, roll down window cover, poles, pegs and guy ropes all made with heavy duty materials Maximum capacity: 18 persons Separate shower room and portable toilet Annex walls with extra-large mesh screens, roll down window cover, poles, pegs and guy ropes all in heavy duty material Tent material is water repellant 3-season tent that can withstand a wind force of 7.5 mph baseline with approximately 38 mph winds and gusts.	1
Trailer Utilities		
set	<b>Trailer Utilities</b> TRAILER BUILT-INS 150 litres water tank pump and plumbing system AC and DC power inlet mounted Portable twin gas stove ( KOVEA ) and wash basin Dust and water roof PVC travel cover	1

units	<b><u>Portable Air-Conditioning</u></b> Horsepower: 1.5 HP Weight: 29 kg Dimensions: 36.5 x 44.5 x 71.5 cm Cooling Capacity: 12,600 Kj/h Power Consumption: 1100 W Applicable Area: 18-28 m	3
unit	<b><u>Independent Portable Toilet</u></b> Material: PP, ABS Dimension: 35x42x43cm / 13.8x16.5x17" Capacity: 24L Flush method: Press Compact size and lightweight design also fit	1
unit	Toilet/Shower Tent Material: Waterproof cloth Rod: glass fiber Pop-up dimension: 1.2x1.2x1.8 m Color: Arm Green	2
unit	<b><u>Fuel Tank</u></b> Standard: AS/NZS 2906:2001 Capacity: 20L of fluid Spill proof, vented pouring spout. Material: UV stabilized high density polyethylene	4
unit	<b><u>Fire Extinguisher</u></b> 101b ABC Non-Toxic and Non-Corrosive Chemicals Refillable Mono Ammonium Phosphate chemical, nonconductor, non-toxic, stored pressure Equipped with pressure gauge, brass valve	1
Communication and Surveillance		
unit	<b><u>Pneumatic Mast</u></b> Operation: Arc movement+vertical movement Height: 10m Operation: Arc movement+vertical movement Height: 10m Pan movement: 3600 Gross weight: 50 kg Operation platform: Arc movement Horizontal and vertical rotation speed: 6r/min Wind Resistance: 66km/h Control way: RS485, Pelco-D/P agreement, remote control Material: Aluminum alloy Power supply: DC12V-IOA Payload: 40 kg	1
set	<b><u>Wireless Siren</u></b> Voltage: DC 12V Output Power: 200W Tones: 6 Lighting: One way Siren and microphone with volume control	1



set	<p><b><u>Weather Station System</u></b></p> <p>Measurements: Hygrometer//Humidity, Rainfall, Temperature, Wind Direction, Wind Speed</p> <p>Sensors: Anemometer, Rain &amp; Temperature</p> <p>Solar-powered with stored energy backup.</p> <p>Corrosion-Proof and can withstand extreme weather environments</p> <p>Has wireless transmission range of 1000 ft (300 m)</p> <p>Transmits data every 2.5 seconds</p>	1
set	<p><b><u>Rescue quadcopter Drone</u></b></p> <p>Waterproof</p> <p>Extended flight time up to 25 minutes</p> <p>Power-Flip function when floating</p> <p>Flight control feel tuned</p> <p>For lifesaving as well as Search and Rescue operations</p> <p>2.7K colour camera, remote control and tilt gimbal</p> <p>Smooth+ remote controls</p> <p>Specially designed rescue buoyancy sausage</p> <p>Live as well as recorded video footage</p> <p>Payloads up to 1.2kg</p>	1
unit	<p><b><u>V-Sat</u></b></p> <p>Starlink</p> <p>Antenna: Electronic Phased Array</p> <p>Orientation: Motorized Self Orienting</p> <p>Environmental Rating: IP54</p> <p>Snow Melt Capability: Up to 40mm/hour (1.5in/hour)</p> <p>Operating Temperature: -300C to 500C</p> <p>Field of View: 1000</p> <p>Average Power Usage: 50-75W</p> <p>Starlink Wifi Router</p> <p>Wi-Fi: IEEE 802.11a/b/n/ac</p> <p>Technology: Standards</p> <p>Chipset: Wi-Fi 5</p> <p>Radio: Dual Band -3 x3 MIMO</p> <p>Security: WPA2</p> <p>Environmental Rating: IP54, configured for indoor use</p> <p>Range: Up to 185m<sup>2</sup> (2000sq(t))</p> <p>Operating Temperature: -300C to 500C (-220F to 1220F)</p> <p>Mesh: Compatible with up to 12 Starlink</p> <p>Mesh nodes-Available to customers in shop</p> <p>Ethernet Adapter: Available to customers in shop</p>	1

set	<b><u>UHF(VHF Radio Communication System</u></b> Frequency Range 136-174 MHz or 450-520 MHz Number of Channels Max. 32 Zones: 2 (Max. Channels per Zone: 16) Channel Spacing Analog 12.5 kHz Digital 6.25 kHz Operating Voltage 13.6 V DC $\pm$ 15% Frequency Stability $\pm$ 2.0 ppm $\pm$ 1.0 ppm Antenna Impedance 50 $\Omega$ Weight: 1.10 kg	1
set	<b><u>Management Laptop</u></b> Intel Core i7 RAM 16GB DISPLAY: 15.6 inches (main display) WINDOWS 10/11 HOME/WEBCAM/BT/WIFI/CARDREADER/BACKLIT KEYBOARD	1
unit	<b><u>LED Robotic Search Light</u></b> Lighting Mode: Low light, High light, and Flashing Image resolution: 1280 x 720 Max. rotation range yaw: - 700 to + 700, Pitch : - 1350 to 450 Power consumption: 40 W	1
unit	<b><u>Bullet Camera System</u></b> Image Sensor 1/3" Progressive Scan CMOS Min. Illumination Color: 0.01 Lux @ (F1.2, AGC ON), 0.018 Lux @ (F1.6, AGC ON), 0 Lux with IR Day & Night IR cut filter Angle Adjustment: Pan: 00 to 3600, tilt: 00 to 1000, rotate: 00 to 3600 Max. Resolution: 2688 x 1520	1
set	<b><u>CCTV System</u></b> 8 Channel (DS-7208HUHI-K1/E) Digital Video Recorder 8 Rolls Siamese Cables (18.3m per roll) Mouse, Manual and Powercord Remote-viewing anytime, anywhere Live view from PC, smartphone or tablet Turbo HD Camera Ultra low light chromatic night vision	1
unit	<b><u>Console Box</u></b> Heavy duty case for cctv system and media system Laminated	1
unit	<b><u>LTE/3G Wi-fi Router</u></b> Prepaid LTE/3G Connection LTE: 3GPP/3GPP, 30 Mbps UL@20MHz bandwidth LTE FDD: 3GPP/3GPP2, 50Mbps UL @20MHz bandwidth	1

unit	<b><u>Table for Mapping</u></b> Folding Half Table with Foldable Steel Legs 4ft 122 x 60 x 74cm	1
unit	<b><u>White Board</u></b> Magnetic White Board 60 x 90cm	1
Rescue and Medical Triaging		
set	<b><u>Foldable Rescue Boat with Outboard Motor</u></b> Width (Beam) When Open: 60" 1.52m Draft: 4" 11.4cm Depth midship: 24" 56cm Capacity: 807 lbs Number of Seats: 4 Material: High Grade Aluminum, Rubber	1
set	<b><u>High Angle Rescue Equipment</u></b> For 1 person 4units 30kn locking carabiner D-shape 4units 30kn locking carabiner oval-shape 2units safety helmet 1 unit descender rescue 8 1 36kn rescue pulley double sheave 1 28kn pulley single sheave 1 adjustable foot loop sling 2 waterproof headlight 1 static rope 50meters 1 hand ascender device 1 swing swivel 30kn rotational device 1 duffle bag 1 climbing harness	1
unit	<b><u>Automated External Defibrillator</u></b> Protocol: Semiautomatic and Fully Automatic configuration Waveform: ZOLL Rectilinear Biphasic™ Defibrillator Charge Hold Time: 30 seconds; ZOLL AED 3 Automatic model: 3 seconds prior to automatic shock delivery Energy Selection: Factory preprogrammed selection Patient Safety: All patient connections are electrically isolated Size: (H x W x D) 12.7 cm x 23.6 cm x 24.7 cm; 5.0 in x 9.3 in x 9.7 in Weight: 2.5 kg; 5.5 lbs (with battery)	1

set	<b><u>Emergency and Trauma Bag</u></b> Bandage scissors elastic bandages 2" 3" 4" 6" Bandage strips Gauze roll Surgical gloves Surgical mask Tourniquet Alcohol Pen light Surgical knife Betadine Triangular bandage	1
unit	<b><u>Oxygen Tank w/ Regulator</u></b> Capacity: 10 Lbs Material : Steel Tank Regulator Oxygen Mask	1
unit	<b><u>Foldable Military Spec Medical Beds</u></b> Material: High-Grade Aluminum Foldable Product size: 194 x 66 x 41cm Folded size: 90 x 12 x 20cm Weight: 9.5kg Load bearing: less than 159kg	5
unit	<b><u>BP Apparatus Set</u></b> Measure scope 0-300mmHg Accuracy: +/-3mmHg Sub-division: 2mmHg Material of Binaurals - Copper Material of Gauge - Zinc Alloy Material of Tubes: PVC (frosted color tubing) Material of Cuff: Nylon Material of Bell & Ear Piece: Copper	2
unit	<b><u>Rescue Axe</u></b> Fire Axe Fiberglass Handle Material: Rubber Grip Size: 32" Weight: 5 lbs	1
unit	<b><u>Bolt Cutter</u></b> Length: 24 Inch Pipe Capacity: 7/16 inch Material: Hardened alloy steel	1
unit	<b><u>Hi-Lift Responder Jack</u></b> Material: Cast Iron Steel Size: 60" Leverage: 4660 1b	1
unit	<b><u>Medical Stretcher</u></b> Material: High Grade Aluminum, Water tight canvas Product size: 185 x 50 x 18cm2) Weight: 13kg Load bearing: 160 kg	1

unit	<b>Shovel</b> Full length: 76cm Black Shovel: 12.8cm x 16cm Material: 3 cr13 Blade length: 8.8cm	1
Power Supply and Electronics		
unit	<b><u>Jump Starter/Power Bank</u></b> CE/RoHs/EMC Battery Capacity:15000mAh Input: 14/A Output:5V/4A ; 12V/12A; 19V/3.SA Charging Time : 5 hours Start Current : 300A	1
set	<b><u>Solar Power Generator System</u></b> Rated Power: 60W Rated Voltage (Vmp): 18V Rated Current (Imp): 3.34A Open-Circuit Voltage: 21.6V Short-Circuit Current: 3.64A Foldable Size: 654 x 351 x 58 mm Weight: 5Kg Connector Type: Coaxial Power Connector / DC Connector 10.5—13.5 V Connector Diameter: inside diameter - 2.5mm, outside diameter - 4mm Cable length: 2m Number of Cells: 36 Cell Type: Poly-Crystalline Silicon Glass Type: high transmission, low iron, tempered glass, glass Thickness of Glass: 3.2mm Two(2) 220VAC receptacles Built-in 1 x 12V 24Ah rechargeable lead acid battery SV 2100mA USB Port & 12V Power Outlet with overload protection	1
set	<b><u>Wind Power Generator System</u></b> Leaf material: nylon fiber Wind wheel diameter: 1350mm Weight: 8.5kg Rated power: 600W Rated voltage: 12/24V Rated wind speed : 13m/s Safe wind speed: 50m / s Number of leaves: 6 pieces, Blade length 60mm Braking method: Electromagnetic Wind direction adjustment: automatic adjustment of the wind Wind power and type: three-phase AC permanent magnet synchronous generator	1



unit	Generator set power inlet mounted 220-240V Open Type Generator Starting system: Recoil/Electrical Starting Alternator Material: 100% Cu Frequency(Hz): 60 Voltage(V): 120-240 Rated output(KW): 8 Max output(KW): 8 THD(%): 25 Running time at 50% loading(H): 8.5 Fuel tank size(L): 21 Noise dB(A): 97 Insulation grade: F Engine : DIESEL Engine type: Air cooling, OHV, 4 stroke Recommended Oil: SAE10W-30	1
unit	<b><u>220V Backup Inverter Power System</u></b> 3000 watts power inverter DC charging system Output Voltage: 220V (+-) 10% Output Frequency : 60hz (+-) 2 Output Wave Form: Modified Sine Wave Peak Efficiency: 65%	1
set	<b><u>Battery Bank Power Supply</u></b> 100ah x 4 (Total Capacity= 400ah) Lithium Ion Battery	1
unit	<b><u>USB charging hub</u></b> 60W AC wall charger with 10 USB port Power switch and LED power indicator USB SV & Max 3.5A Output	2
<b>On-Site Training-Seminar</b>		
	<b><u>Technical Seminar</u></b> Training for Ingress and Digress of trailer-tent system Gain knowledge of equipment and its specifications Proper handling and proper use of tools and equipment Ergonomic placement of equipment	
	<b><u>Individual Seminar</u></b> Training and testing of each individual for a specific role Ex: Drone Pilot, CCTV controller etc. Note: CAAP Certification NOT included	
	<b><u>Team Seminar</u></b> Conducting Team for ground training and actual response action Efficient Ingress and Digress of MOCOV Synchronization of Individual and their roles at a specific time of action	
	<b><u>Crisis Management Non-disaster</u></b> Crisis management for non-disaster related events Ex: LGU Check point, Fiesta surveillance, Mayor's events etc. Efficiency of team during these events Team preparedness incase of emergency	

	<p><b><u>Crisis Management: Natural Disaster</u></b></p> <p>Crisis management for Natural disaster related events</p> <p>Ex: Typhoon, Earthquake, Landslide etc.</p> <p>Efficiency during intense and pressured situations</p> <p>Team preparedness incase of unexpected events</p>	
	<p><b><u>Crisis Management: Human Caused Disaster</u></b></p> <p>Crisis management for Human Caused disaster related events</p> <p>Ex: Hostage taking, Mass shooting, Industrial accidents etc.</p> <p>Efficiency during intense and pressured situations</p> <p>Team preparedness incase of unexpected events</p>	