



Republic of the Philippines
NATIONAL POLICE COMMISSION
NATIONAL HEADQUARTERS, PHILIPPINE NATIONAL POLICE
OFFICE OF THE CHIEF, PNP
Camp BGen Rafael T Crame, Quezon City

JAN 12 2024

ODRD(W)-230928-365

MEMORANDUM CIRCULAR

NO.: 2024-002

**PRESCRIBING THE MINIMUM TECHNICAL SPECIFICATIONS
FOR PNP MOBILE CLINIC**

1. REFERENCES:

- a. NAPOLCOM Memorandum Circular (MC) No. 2019-002 entitled, "Defining the Duty and Authority of the NAPOLCOM to Prescribe Minimum Standards for Uniforms, Arms, and Equipment to be Procured by the Philippine National Police" dated January 29, 2019;
- b. NAPOLCOM Resolution No. 2020-0951 entitled, "Prescribing the Minimum Standards for Mobile Clinic" dated October 26, 2020; and
- c. PNP UESB Resolution No. 2023-08-016 entitled, "Approving the Proposed Minimum Technical Specifications for PNP Mobile Clinic" dated August 24, 2023.

2. RATIONALE:

This MC sets forth the technical specifications for Mobile Clinic to be used by the Philippine National Police (PNP) Health Service (HS) for delivering medical care to remote and underserved areas, especially during emergencies and outreach programs.

3. SITUATION:

The PNP HS, in collaboration with the Directorate for Research and Development (DRD), recognizes the urgent need for new technical specifications for PNP Mobile Clinic. This need arises from the requirement for built-in X-ray machines outlined in an HS memorandum and aligned with NAPOLCOM Resolution No. 2020-0951 which sets the Minimum Standards for Mobile Clinic. The updated specifications aim to improve healthcare services among PNP personnel by enhancing mobile clinics' capabilities to provide top-tier medical care in remote areas, strengthen emergency responses, and support outreach programs. The Mobile Clinic will include advanced X-ray technology to address a wider range of healthcare needs. These specifications prioritize safety, streamline procurement, and promote standardization, reflecting the PNP's commitment to healthcare excellence. Ultimately, this forward-looking approach will lead to the procurement of state-of-the-art equipment to enhance the effectiveness and adaptability of PNP Mobile Clinics in meeting evolving healthcare challenges.

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Chief, Administrative Section



4. PURPOSE:

To provide and establish the technical specifications for PNP Mobile Clinic that will serve as reference in procuring the said vehicle.

5. DEFINITION OF TERMS:

For purposes of this MC, the following terms, words and phrases shall mean or, be understood as follows:

- a. Brake – refers to a mechanical device that inhibits motion by absorbing energy from a moving system. It is used for slowing or stopping a moving vehicle, wheel, axle, or to prevent its motion, most often accomplished by means of friction.
- b. Direct Injection – refers to the use of pump to spray fuel into the cylinder at high pressure, without the use of compressed air.
- c. Drivetrain – refers to the system in a motor vehicle which connects the transmission to the drive axles.
- d. Engine Displacement – refers to the measure of the cylinder volume swept by all of the pistons of a piston engine, excluding the combustion chambers.
- e. Pferdestarke (Ps) – refers to the metric measurement of horsepower (HP) which is the equivalent of 98.6% of one HP.
- f. Power – refers to a rated power that an engine can put out usually expressed in kilowatt, pferdestärke (metric horsepower), or horsepower.
- g. Rim – refers to the outer edge of a wheel, on which the tire is fitted.
- h. Suspension – refers to the system of springs and shock absorbers by which a vehicle is supported on wheels.
- i. Torque – refers to a force that produces or tends to produce rotation or torsion. Also, a measure of the effectiveness of such a force that consists the product of the force and the perpendicular distance from the line of action of the force to the axis of rotation.
- j. Transmission – refers to a machine in a power transmission system, which provides controlled application of the power.

6. SPECIFICATIONS:

- a. Description

The PNP Mobile Clinic is a customized air-conditioned vehicle equipped with built-in X-ray machine and other various medical equipment that can

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perform laboratory, medical, and diagnostic procedures and accommodate minor surgery and out-patient treatment during emergency situations.

b. Technical Specifications

- 1) Engine
 - a) Fuel : Diesel
 - b) Engine Displacement : 3900 cc
 - c) Power : 130 Ps
 - d) Torque : 370 N-m
 - e) Number of Cylinder : 4
- 2) Body Type : Minibus
- 3) Transmission : 5-speed forward, neutral and reverse
- 4) Suspension
 - a) Front : Manufacturer's Standard
 - b) Rear : Manufacturer's Standard
- 5) Wheels
 - a) Rim Material : Steel Wheels or Better material
 - b) Rim Dimension : 16 inches
 - c) Tire Size : Manufacturer's Standard
 - d) No. of Tires (F/R) : Single/Double
- 6) Brakes
 - a) Front : Manufacturer's Standard
 - b) Rear : Manufacturer's Standard
- 7) Dimensions
 - a) Overall Length : 6990 mm
 - b) Overall Width : 2010 mm
 - c) Overall Height : 2630 mm
 - d) Wheelbase : 3935 mm
- 8) Steering System : Left hand drive and power steering

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- 9) Safety/Security
 - a) Airbags : Manufacturer's Standard
 - b) Brake System : With Anti-lock Braking System
 - c) Seatbelts : Driver and Front Passenger
- 10) Instrumentation/Lightings : Manufacturer's Standard
- 11) Equipment/Accessories : Roof Blinker (Latest Approved Specification);
 - : 1 set Siren, 4 programs with public address system, 100 watts amplifier and 150 watts speaker;
 - : 3-channel Dash Camera;
 - : Built-in latest audio system with AM/FM radio;
 - : Built-in air-conditioning system;
 - : 2 pcs 5 lbs. fire extinguisher mounted strategically;
 - : On Vehicle Maintenance (OVM) tools;
 - : Spare tire with rim;
 - : 1 pair EWD;
 - : 2 pcs reflectorized traffic vest;
 - : Portable jumpstart cable (1000 amp);
 - : Rechargeable Searchlight (500w);
 - : Power inverter (12V-220V AC, 2000w);
 - : Royal cord cable (100m);
 - : CCTV; and
 - : Laptop or Desktop Computer (Latest approved specifications).

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- 12) Color and Markings : White body with markings that conform to the latest approved specifications for Color and Markings
- 13) Digital Mobile Radio (Latest Approved Specification)
- a) Must be interoperable with the existing PNP DMR System that includes compatibility to the network management system supporting dispatcher system, radio disable, radio enable, and remote monitor from the control center;
 - b) Must support end-to-end AES-256 encryption; and
 - c) Must be DMR Tier III and Tier II compliant.
- 14) Medical Equipment
- a) X-Ray Machine 100mA
 - (1) 200 KHz, 4KW, 100mA Mobile HF X-ray;
 - (2) Draws clean power from mains;
 - (3) Negligible leakage radiation;
 - (4) Easy to move (<85kg);
 - (5) 90° collimator rotation;
 - (6) Tube-head rotation;
 - (7) Light field intensity min 160 Lux @ 1m; and
 - (8) Suitable for NICU, ICU, Trauma and Ortho.
 - b) Direct Radiography System
 - (1) Scintillator CsI (Cesium Iodide) with Irradiated Side Sampling (ISS);
 - (2) External dimensions 18.1" x 15.1" x 0.6" or smaller;
 - (3) Weight (approximately with battery) 7lbs - 8.5lbs;
 - (4) Load Resistance 220 lbs on a 1.6" diameter point, 330 lbs distributed (a protective cover required for standing exams);
 - (5) Water Resistance IPX4;
 - (6) Exposure Size: Inches/Pixels 14"x17"/2336 x 2836;
 - (7) Bit Depth, Pixel Pitch 16bit, 150μ;

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- (8) Grid Frequencies recommended; 40-44 lines/cm, 80+ lines/cm useable;
 - (9) Virtual Grid™ (option) simulates scatter clean-up for images acquired without a grid;
 - (10) Detector to FDR SE Console Wireless only, up to 2 panels;
 - (11) EIEEE 802.11 a/b/g/n in 2.4 and 5GHz bands;
 - (12) FDR SE Console to Network Lan wired CAT5 Ethernet;
 - (13) Battery Performance (Approx.) 1.7-3 hours;
 - (14) Charge Time (approx.) 2.5 hours in battery charger, 5 hours by trickle charge cord, Power Supply Battery, Power cord Temp., Humidity, Atmospheric Pressure;
 - (15) Operating: 41-86 °F, 10-80% RH (non-condensing), 700-1060 hPa;
 - (16) Storage (without battery): 4-95 °F, 10-90% RH9 (nc), 700-1060 hPa; and
 - (17) Power Consumption Max 15W.
- 15) Vehicle Configuration
- a) Partition between X-ray room and workstation with lead sheets and lead glass (exposure room should be sealed and free from radiation leak);
 - b) Provided with Vertical Cassette Holder;
 - c) Provided with upholstered chair and cabinet (wooden frames, under cabinets with upholstered foam cushion);
 - d) Provided with table (melamine finished) and swivel chair for workstation;
 - e) Provided with electric canopy;
 - f) Provided with stabilizers (dropped leg, manual height adjustment);
 - g) Provided with rear air-conditioning system (Ceiling mounted);
 - h) Provided with electricals, lightings, and convenience outlets;

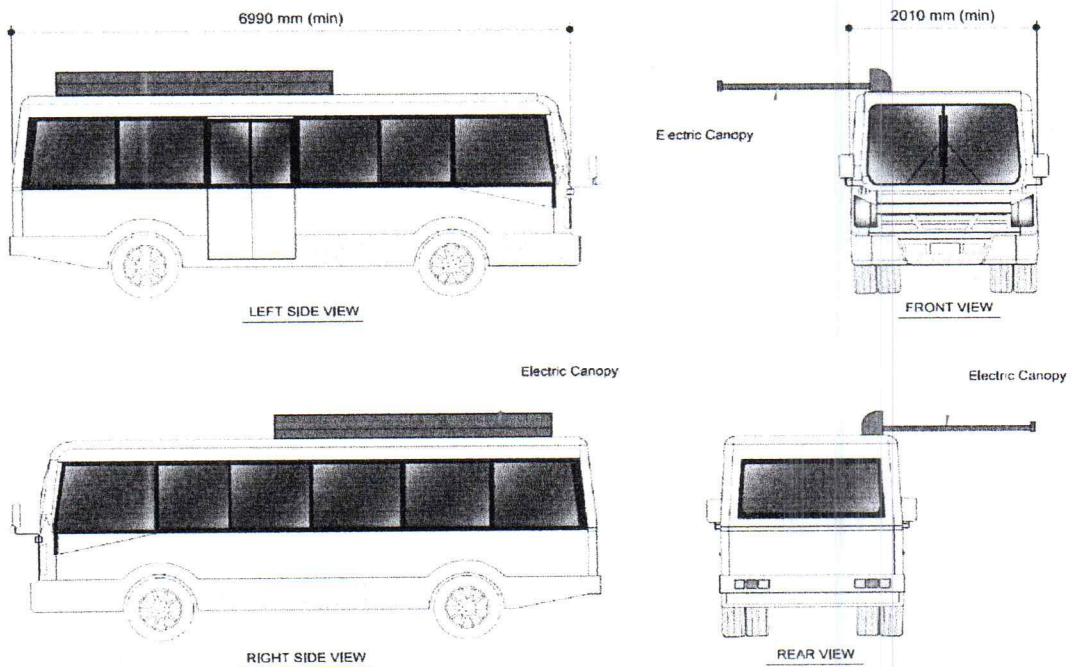
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- i) Provided with two circuit breakers (one for genset and one for commercial power); and
 - j) Provided with 7KVA Genset.
- 16) Other Requirements
- a) Must be brand new and of latest year model;
 - b) Maintenance Manual;
 - c) Operation Manual; and
 - d) All items/data in the brochure/technical specifications shall form part of the standard offer.
- 17) Must pass the PNP functional test and evaluation.

7. ILLUSTRATION:



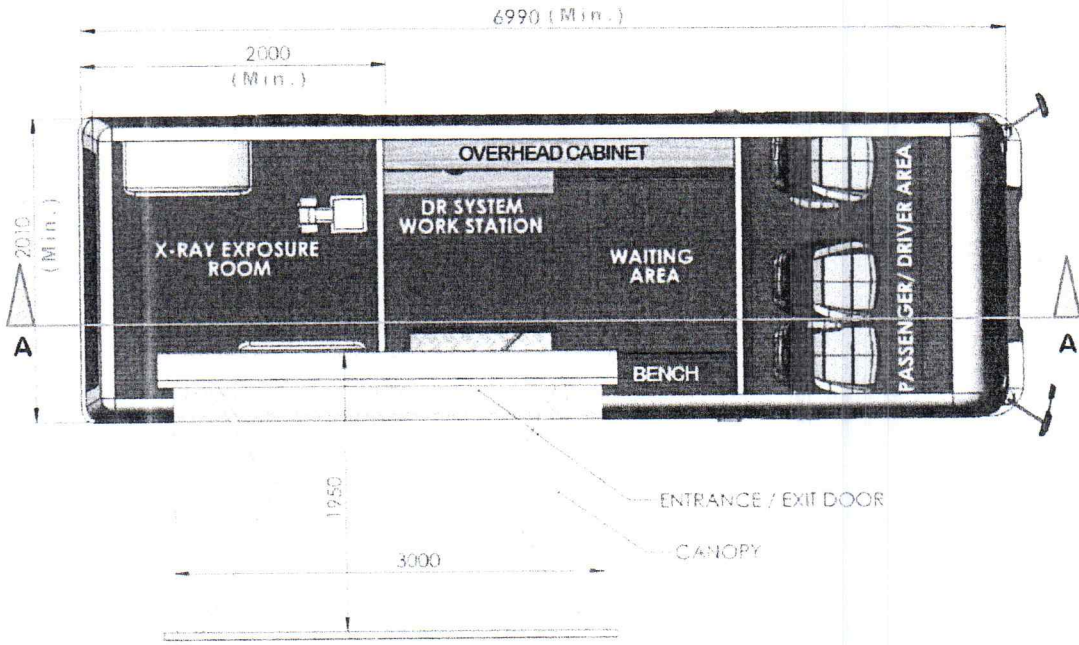
ELEVATION

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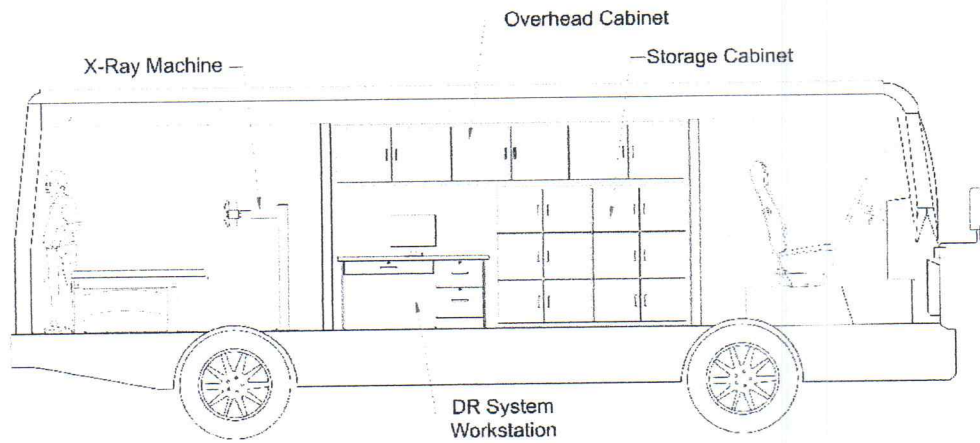
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PLAN



SECTION AA

8. REPEALING CLAUSE:

All other technical specifications contrary to or inconsistent with the provisions of this PNPMC are hereby rescinded, modified or amended.



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9. EFFECTIVITY:

This MC shall take effect after 15 days from filing a copy thereof at the UP Law Center in consonance with Section 3, Chapter 2, Book VII of Executive Order 292 otherwise known as the "Revised Administrative Code of 1987," as amended.

BENJAMIN C ACORDA, JR
Police General
Chief, PNP

- Distribution:
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 - D-Staff
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 - D, NSUs
 - RD, PROs
 - SPA to the SILG

OCPNP Signed 2023 S097589



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