



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

DEC 03 2020

MEMORANDUM CIRCULAR
NO.: 2020 - 085

**PRESCRIBING THE MINIMUM TECHNICAL SPECIFICATIONS
FOR PRINTER PLOTTER (LARGE FORMAT PRINTER)**

1. REFERENCES:

- a. NAPOLCOM Resolution No. 2020-0419, "Prescribing the Minimum Standards for Printer Plotter dated June 18, 2020";
- b. 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 PNP" dated January 29, 2019";
- c. PNP MC No. 2019-016 entitled, "Implementing Guidelines of NAPOLCOM Resolution No. 2019-002, Defining the Commission's Function to Prescribe Minimum Standards for Uniforms, Arms and Equipment for the Philippine National Police and Delineation of Authority to the Chief, Philippine National Police and to Set Technical Specifications of PNP Uniforms, Arms and Equipment" dated April 4, 2019; and
- d. PNP UESB Resolution No. 2020-019 entitled, "Proposed Minimum Technical Specifications for Printer Plotter (Large Format Printer)."

2. RATIONALE:

This Memorandum Circular (MC) sets forth the minimum technical specifications for Printer Plotter that will serve as reference in the procurement of the said equipment.

3. SITUATION:

Digitally controlled plotters evolved to produce vector graphics drawings. Plotters draw lines on paper using a pen. In the past, plotters were used in applications such as computer-aided design, as they were able to produce line drawings much faster and of a higher quality than contemporary conventional printers, and small desktop plotters were often used for business graphics. Although they retained a function for producing very large drawings for many years, plotters have now largely been replaced by wide-format conventional printers.

As the technology advanced, large format printers (wide format) are generally accepted to be any computer-controlled printing machines (printers) that

JENNIFER EBONJOC
POLICE LIEUTENANT COLONEL
Chief, Administrative Section

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support a maximum print roll width of between 18" and 100". Large format printers are used to print electronic circuit schematics, architectural drawings, construction plans, banners, posters, trade show graphics, wallpaper, murals, backlit film, vehicle image wraps, backdrops for theatrical and media sets, and any other large format artwork or signage that creates digital image which are useful in PNP projects and activities.

4. PURPOSE:

To provide and establish the minimum technical specifications for Printer Plotter that will serve as reference in the procurement of the said equipment.

5. DEFINITION OF TERMS:

For purposes of this MC, the following terms shall mean:

- a. **Auto voltage** – is designed to regulate voltage automatically – that is, to take a fluctuating voltage level and turn it into a constant voltage level;
- b. **Line Accuracy** – is how close a measurement in print line;
- c. **Print Cartridge (Ink Cartridge)** – is a component of an inkjet printer that contains the ink that is deposited onto paper during printing;
- d. **Media paper** – is a material that hold data in any form or that allows data to pass through them, including papers and transparencies;
- e. **Printer Plotter** – is a printer that interprets commands from a computer to make line drawings on paper with one or more automated pens;
- f. **System Requirement** – is a computer software that requires specifications that a device must have in order to use certain hardware or software;

6. SPECIFICATIONS:

a. Description:

A device used for printing graphic drawing, such as structural and engineering plans in an A3 size or bigger media type drawings.

b. Technical Specifications:

1) Equipment Type : Printer plotter with scan and copy functions

2) Media Types : Flexible printing on media papers from bond paper, glossy, technical papers (tracing, translucent vellum) and others

3) Minimum Media

JENNIFER B. PONJOC
POLICE LIEUTENANT COLONEL
Chief, Administrative Section
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Thickness : 0.5mm

4) Maximum Print
Time Line : 28sec/page

5) Media Sizes : up to 210x118mm

6) Minimum Internal
Storage : 320GB

7) System Requirement: Compatible with all Operating Systems

8) Minimum Number : 5 cartridges
of Print Cartridges

9) Line Accuracy : $\pm 0.1\%$

10) Dimension : Manufacturer's Standard

11) Maximum Weight : 130kgs

12) Power Requirements: Auto voltage


7. EFFECTIVITY:

This MC shall take effect immediately 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.

JENNIFER D. DONJOC
POLICE LIEUTENANT COLONEL
Chief, Administrative Section

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DEBOLD M SINAS
Police General
Chief, PNP

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