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 14 2020

MEMORANDUM CIRCULAR
NO.:2020-089

PRESCRIBING THE MINIMUM TECHNICAL SPECIFICATIONS FOR IMMUNOASSAY ANALYZER

1. **REFERENCES:**
   a. NAPOLCOM Resolution No. 2020-0061 entitled, "Prescribing the Minimum Standard for Immunoassay Analyzer" dated January 28, 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. 2020-028 entitled, "Approving the Proposed Minimum Technical Specifications for Immunoassay Analyzer" dated October 29, 2020.

2. **RATIONALE**:

This MC sets forth the minimum technical specifications for Immunoassay Analyzer that will serve as reference in the procurement of the said equipment.

3. **SITUATION:**

The Immunoassay Analyzer will be used by the PNPGH to enhance its logistical capability through the procurement of medical equipment. An Immunoassay Analyzer tests patient samples for a variety of substances, including infectious diseases; allergy testing; cardiac markers; endocrine hormone testing; and protein and viral or bacterial toxin determinations.

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JENNIFER D BONJOC
POLICE LIEUTENANT COLONEL
Chief, Administrative Section

4. PURPOSE:

To provide and establish the minimum technical specifications for Immunoassay Analyzer 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. **Cardiac Markers** – refer to biomarkers measured to evaluate heart function. They can be useful in the early prediction or diagnosis of disease.

b. **Chemiluminescence** - refers to the emission of light, as the result of a chemical reaction. There may also be limited emission of heat.

c. **Enzyme-linked Immunosorbent Assay (ELISA)** – refers to a commonly used analytical biochemistry assay, first described by Engvall and Perlmann in 1971. The assay uses a solid-phase type of enzyme immunoassay to detect the presence of a ligand in a liquid sample using antibodies directed against the protein to be measured.

d. **Immunoassay** – refers to a biochemical test that measures the presence or concentration of a macromolecule or a small molecule in a solution through the use of an antibody or an antigen.

e. **Molecule** – refers to an electrically neutral group of two or more atoms held together by chemical bonds.

f. **Plasma** – refers to an ionized gas consisting of positive ions and free electrons in proportions resulting in more or less no overall electric charge, typically at low pressures (as in the upper atmosphere and in fluorescent lamps) or at very high temperatures (as in stars and nuclear fusion reactors).

g. **Serum** – refers to the fluid and solute component of blood which does not play a role in clotting. It may be defined as blood plasma without fibrinogens.

h. **Windows-based program** – refers to software that is designed to work on a computer running the Microsoft Windows operating system.

6. GUIDELINES:

a. **Specifications:**

1) Description:

Immunoassay Analyzer is used in PNP hospital and clinical laboratories to run automated biochemical tests to detect the presence and concentration of substances in the samples.

2) Technical Specifications:

a) System	:	Automated sampler, reagents dispenser, washer and detector
b) Sensor	:	Clot and sample level detection
c) Type	:	Floor or Bench
d) Contamination	:	No Sample carryover- (disposable pipette tips)
e) Sample position	:	84 samples tubes
f) Power Supply	:	100 -- 240V
g) Parameters	:	Run hepatitis and HIV profile, Retroviruses; and other infectious disease markers to include TORCH
h) Sample Type	:	Serum, Plasma, Urine
i) Result	:	Can be available viewed and editable, and analyzed
h) Techniques/ Principles	:	ELISA or Chemiluminescence
i) Integrity Control	:	Can validly read test order
j) Display	:	Colored or LCD screen
k) Software	:	Window based software
l) Memory Storage	:	Must have an internal memory for patient and event results

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.

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