

2017-02-051

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REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF FINANCE  
**BUREAU OF CUSTOMS**

**MEMORANDUM**

TO : **ALL PORTS  
ALL OTHERS CONCERNED**

SUBJECT : **Submission of Samples for Laboratory Analysis**

DATE : **20 February 2017**

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This is to inform you that the Philippine Customs Laboratory (PCL) is in the restoration process of its functions. The PCL is now functioning but with limited capacity.

Submission of samples for laboratory analysis report can now be accepted at the PCL. The PCL will be addressing concerns and requests by analyzing it through its current capacity or through recommendation for laboratory testing to other government or private laboratories. Hence, the PCL staff is now in a position to accept laboratory samples for test processing.

For your information.

*[Handwritten Signature]*  
**NICANOR E. FAELDON**  
Commissioner



FEB 23 2017



Republic of the Philippines  
Department of Finance  
BUREAU OF CUSTOMS

## MEMORANDUM

FOR : **NICANOR E. FAELDON**  
*Commissioner*

FROM : **MILO D. MAESTRECAMPO, MBA, CSP**  
*Director III*  
Import Assessment Services

SUBJECT : **Propose Priority equipment in Philippine Customs Laboratory (PCL)**

DATE : **20 February 2017**

List of priority equipment that will provide the greatest scope for optimizing its function and usage in the Philippine Customs Laboratory.

Equipment	Function	Application
Analytical Balance	For accurate measurement of small mass of samples (sub-milligram range)	<ul style="list-style-type: none"> <li>Preparation of chemicals (reagents, solutions)</li> <li>Powdered and crystal samples</li> <li>Other materials/samples</li> </ul>
PH Meter	Measures the hydrogen-ion concentration in a solution, indicating its acidity or alkalinity	<ul style="list-style-type: none"> <li>Agriculture (soil)</li> <li>Water quality for water supply system</li> <li>Healthcare (sterilants, disinfectants)</li> <li>Brewery (alcohol, spirits, etc.)</li> <li>Many other applications</li> </ul>
Carbon/Sulfur Analyzer	Allow simultaneous analysis of high and low carbon and sulfur concentrations in one measurement	<ul style="list-style-type: none"> <li>alloys, carbides, cast iron, cement, ceramics, copper, glass, iron, minerals, ores, refractory metals, sand, steel, titanium, waste</li> </ul>
Digital Thermometer	Used in measuring temperature (sample, ambient, room)	<ul style="list-style-type: none"> <li>All samples that needs temperature reading</li> </ul>
Furnace	For ashing organic and inorganic samples, determining volatile and suspended solids, gravimetric analysis, heat treating of small steel parts, and ignition test	<ul style="list-style-type: none"> <li>Organic and inorganic samples</li> <li>Bunker fuel/ lube oil</li> <li>Other combustible materials</li> </ul>
		<ul style="list-style-type: none"> <li>Coal and coke, all varieties and</li> </ul>

Bomb Calorimeter	Determines the heat of combustion or calorific value of materials which are burned as fuels	<p>types</p> <ul style="list-style-type: none"> <li>Fuel oil, both heavy and light varieties</li> <li>Foodstuffs and supplements for human nutrition</li> <li>Building materials</li> <li>Combustible materials</li> <li>Gasoline, all motor fuel and aviation types fuels, all varieties</li> </ul>
Automatic Colorimeter measuring saybolt and ASTM color	For objective colour analysis of petroleum fuels, oils, waxes and petrochemicals according to the Saybolt and ASTM Colour scales.	<ul style="list-style-type: none"> <li>Light colored petroleum products including aviation fuels, kerosene, white mineral oils, hydrocarbon solvents, petroleum waxes</li> <li>Lubricating oil, heating oil and diesel fuel oil</li> </ul>
Karl-Fischer Titrator	Moisture determination method specific for water and is suitable for samples with a high moisture content (titrimetry) and also for those with water contents in the ppm range (coulometry). Also suitable for solids if these are soluble or if the water they contain can be removed by heating in a stream of gas or by extraction.	<p>Chemicals groups (alcohol, acid, base, etc.)</p> <ul style="list-style-type: none"> <li>Cosmetics</li> <li>Foodstuff (sugar, rice, oils, etc.)</li> <li>Petroleum products (crude oil, diesel fuel, lube oil, kerosene, etc)</li> <li>Pharmaceuticals</li> <li>Technical products (silica gel, propylene carbonate, synthetic enamel)</li> </ul>
Distillation Unit	Method of determining the boiling range characteristics of a mixture/solution	<ul style="list-style-type: none"> <li>Petroleum products (fuels, solvents, automotive and aviation gasolines, paints, etc)</li> </ul>

### Chemicals:

#### Liquid Reagents:

Concentrated hydrochloric acid, AR, 2.5 L

Concentrated sulfuric acid AR, 2.5 L

Ethanol, AR, 2.5 L

Methanol, AR, 2.5 L

Nitric acid, AR, 2.5 L

Hydrofluoric Acid, AR, 2.5 L

Acetone, AR, 2.5 L

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Solid Reagents:

Citric acid, AR, 500 grams  
Sodium Molybdate dehydrate, AR, 500 grams  
Potassium Chromate, AR, 500 grams  
Sodium hydroxide, AR 500 grams  
Potassium hydroxide, AR 500 grams  
Phenolphthalein, AR 500 grams  
1,2- dinitrophenyl hydrazine, AR, 500 grams  
Potassium permanganate, AR 500 grams  
Copper sulfate pentahydrate, AR 500 grams  
Potassium iodide, AR 500 grams  
Sodium oxalate, AR 500 grams  
Sodium thiocyanide, AR 500 grams  
Copper strip, 100 strips  
Oxalic acid, AR 500 grams  
Potassium dichromate, AR 500 grams  
Potassium nitrate, AR 500 grams  
Ammonium hydroxide, AR 500 grams  
Disodium tartrate dehydrate, AR, 500 grams  
Magnesium Nitrate, AR, 500 grams.



**MILO D. MAESTRECAMPO, MBA, CSP**  
Director III, IAS

Approved/~~Disapproved~~:



**NICANOR E. FAELDON**  
Commissioner



FEB 23 2017