

KINGDOM OF CAMBODIA

Report  
On “ NGV Fuel Dispensers ”

From November 13-16 th. 2007  
in Shah Alam, Malaysia.

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# Country Report in Legal Metrology On NGV Fuel Dispensers

## **1- Brief History**

-1995 Establishment of Weight and Measure Unit, under Technical Department of Ministry of Industry, Mines and Energy (MIME).

-1999 Upgraded to be The Department of Metrology (DOM) under MIME.

## **2- Self Introduction**

My name is Kim Chandara. I have been working in Weight and Measure Unit since 1996. At present, my position is Deputy Director of Department of Metrology in charge of Metrological Technology Development, Legal Metrology Laboratory and International Cooperation. I also assist my Director to organize the training for DOM Staffs and Provincial Verification Officers.

## **3- Verification of Fuel Dispensers**

The Department of metrology (DOM) is the Authority for Legal Metrology under Ministry of Industry, Mines and Energy. DOM and Provincial Verification Offices are responsible for the Legal Metrology of all Weighing and measuring Instruments for trade use namely: Mass, Length and Volumetric measurements of food, Fuel and other commodities including pre-packaged goods.

We conduct re-verification every year and the procedure for verification of non-LPG fuel dispensers (Gasoline, Diesel Oil, Kerosene) are as following:

### **a- Visual Inspection**

To record the date of test, registered trading name, the mark, model, pump number.... etc.

### **b- External Inspection**

To check the fuel dispenser is firmly fixed on its foundation, all indications are visible under conditions day and night, nozzle must terminate the delivery ....

#### c- Internal Inspection

To check the apparent leaks at the pump, hose, meter, gas elimination device, the components are located and fitted in accordance with the certificate and verification mark and seals are in place.

#### d- Functional Test

-Visually inspect the indicator: to check the Eight test, blank test and Zero test.

-To check the price computing

-To check the nozzle cut-off.

#### e- Performance test

- Used vessel standard of 5 L or 10 L.

- Volume for testing is 5 L or 10 L.

- Display of indicator of Fuel Dispenser is compared with Working Standard Vessel (5 L or 10 L.).

- The MPE is +/- 0.5% of nominal value.

### **4- Current Situation about Verification of NGV Fuel Dispensers**

Now we don't have any experience on Type Approvals or Verification of NGV fuel dispensers. We also don't know the method and the equipment requirement for the implementation of the measuring system on NGV fuel dispensers. At present, there are only a few LPG stations (11 LPG stations) in the whole country and more than 8% of vehicles powered by LPG.

DOM will regulate and verify of LPG fuel dispensers. We performed the verification by gravimetrically (by weighing). Therefore, the participation in this training course will be very important for me to study of this subject.

### **5- Expectation**

In Cambodia, due to the increases in price of gasoline from day to day numbers of vehicles are powered by LPG. Therefore from this training course I will gain knowledge and experience from Presenters and Colleagues participants to improve my capacity for drafting the ministerial regulation for the control of such LPG and NGV fuel dispensers as soon as possible.

Thank you for your kind attention.

# Organization Chart

