



# Progress of Enhancement of Industrial Wastewater Management in Lao P.D.R.

Mr. Sengkeo TASAKETH

**Pollution Control Department**

**Ministry of Natural Resources and Environment**

**Vientiane Capital, January 25, 2016**

# Outline of Presentation

- I. Background
- II. Effect of the enhancement
- III. Consideration and future challenge
- IV. Conclusion

# I. Background

## 1. Policy Instruments for Industry Developed :

- Lao PDR developed the Special and Specific Economic Zones (SEZ) for Developers and investors can invest in all sectors in the SEZ. Government of Lao PDR promotion the Industry sector in SEZ. Currently, the number of industrial factories are **10, 413 factories** :

- 1) Food and beverage 14;
- 2) Tobacco 7;
- 3) Textile and garments 281;
- 4) Cement factory 9;
- 5) Construction materials 502;
- 6) Car and motorcycle assemble 25;
- 7) Plastics 10; and Others 9565 not included the household business

# **I. Background (cont)**

## **2. Legislation wastewater control :**

1. Industry Processing Law, 2013
2. Environment Protection Law, 2012
3. Waste from Industry Processing Management Regulation; 2012
4. Environment Impact Assessment Decree; 2010 and EIA instruction 2014;
5. Industry Wastewater Discharge Regulation 2005; and
6. National Environmental Standard, 2009.

# **I. Background (cont)**

## **3. Institutional Responsibility:**

1. Project proponents have to submit the industrial proposal to Ministry of Industry and Commerce (MOIC) for issue the industries operating permit. MOIC is monitoring for wastewater management and treatment process before discharge to nature environment;
2. Project proponents have to submit Environmental Management and Monitoring Plan (EMMP) to the Environment Impact Assessment (EIA) Ministry of Natural Resources and Environment (MONRE);
3. There are three levels of government in Lao PDR (Ministry at National, Department at Province and Office at District levels).

## II. Effect of the enhancement

- **For example: Changes of violation of treated wastewater quality**
- Refer to the information from factory get the environment compliance permit report form 2011 – 2015 requires all factories should have wastewater treatment plant before discharges into natural environment as follow:
  - Wastewater Treatment System include Best Available Technology (BAT);
  - Promote to reuse wastewater after treatment;
  - Self Monitoring Report (Result of water quality monitoring at the end of pipe);
  - Complain monitoring and inspection by MONRE.
- The changes of violation of treatment wastewater quality are increasing almost more than 85% of factories following to EMMP are meet the environmental quality standards.

## **II. Effect of the enhancement (Cont)**

- **Industries Activities on Wastewater Management Conduct study EIA and provide all information within EMMP:**
  - Measures to prevent, minimize, and solve problems, and to restore environmental conditions which are stipulated in the report on the EIA throughout the period of construction and operation of the project;
  - A plan to avoid and minimize the risks, including a plan to prevent and solve any accident or emergency which may arise, as well as allocation of sufficient budget to implement the plans;
  - A schedule and a budget for implementation of the environmental management and monitoring plan, including financial mechanism and budget available for each activity.

# III. Consideration and future challenge

## **The Issued and Challenge for Industry Wastewater Management**

### ***1. Policy and legislation:***

- Lack of National Planning Policy Framework, Monitoring and Enforcement;
- Lack of specific Law and Regulation to control of waster pollution control and
- Lack of criminal laws for pollution control.

### ***2. Institutional Framework:***

- The absence of power leads to serious lack of compliance and major pollution issues;
- Lack of technical skills and inadequate resources to support monitoring and enforcement;
- Lack of cooperation and coordination of pollution control among the Center , Local government and agencies concern.

### ***3. Financial support***

- Lack of financial collection charges of pollutants released into the environment is still not able to perform as no specific legislation in force; and
- National government's annual budget is not sufficient.



# IV. Conclusion

**To solved the problem should be consider:**

## **1. Policy and Legislation:**

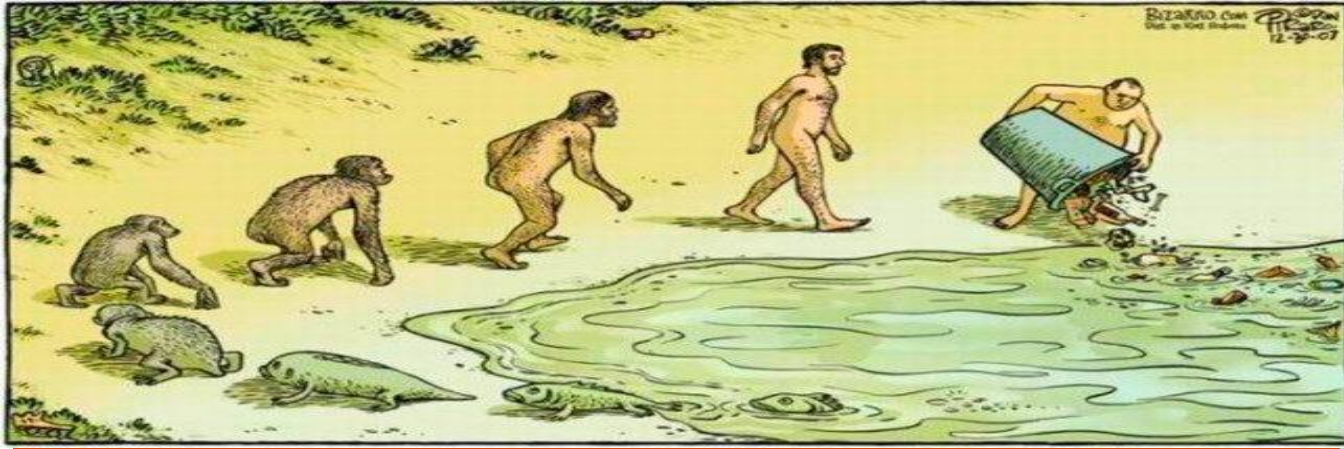
- Develop the National Pollution Control Strategic and Mission shot term and long term to provide specific for water pollution control policy framework;
- Improve and revise the National Environmental Standards to upgrade some parameters in ambient and emission/effluent;
- Develop the Pollution Control Regulation and Law to prevention and control water pollution.

## **2. Institutional Framework:**

- To improve and clear the MONRE's mandate to carry out the Industry Wastewater Management with the adequate technical staffs, expertise, equipment and financial support mechanisms;
- Institution Strengthening and Capacity Building for MONRE, DONRE and NREO and line agencies concern for **Complying and enforcing environmental law.**

## **3. Cooperation Mechanism:**

- MONRE: should be coordination; oversight of environmental affairs and line agencies concern; and
- MOIC: should be Management of industrial processing for wastewater discharge.



**Thank You for Your Listening**  
**Q & A**