


Environmental Water Quality standards and water monitoring system in Lao PDR

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Environmental Water Quality Standard and Water Monitoring System in Lao PDR

- Related Laws to water quality:
 - Water and Water Resources Law (1996)
 - Environmental Protection Law (1999)
 - Electricity Law (1997)
 - Agricultural Law (1998)
 - Industry Processing Law (1999)
 - Mining Law (1997)

Environmental Water Quality Standard and Water Monitoring System in Lao PDR



- Some regulations related to Water Quality:
 - Regulations on the monitoring and control of waste discharge (1998): to control and monitor waste water which is discharged from the communities, commercial areas, service center, agricultural production etc...
 - Regulations on Industrial Waste Discharge (1994): to control hazards arising from the discharged of industrial wastewater and waste which may affect water quality, the health of citizens and other kinds of life.
 - Regulation on Implementing the Environmental Assessment for Electricity Projects in Lao PDR (2001): to manage and control the construction and installation of any type of electricity generating project

Water Quality Standard in Lao PDR



- Drinking Water Quality Standard (after treatment) 11 parameters:
 - PH, Turbidity, Taste and Oder, Conductivity, Iron, Manganese, Arsenic, Fluoride, Nitrate, Thermo tolerant coliform and Total harness (according to the Guidelines issued by the National Center for Environmental Health and Water Supply, Ministry of Health)



Water Quality Standard in Lao PDR

- Bacteriological parameters
- Health significant chemical parameters
- Physio-chemical parameters (aesthetic significance)
- Micro-organism standard for controlling drinking water: Faecal Coliform, Total Coliform
- Toxicants in water: Cu, Hg, Pb, Zn...



Water Quality Standard in Lao PDR

- Waste Water standards issued by MIH
 - Concentration standards of waste water from industry such as Sugar mill, Textile and Garment industry, Pulp mill, Paper mill, Slaughter house, Battery plants...BOD5, TSS, PH, Ammonia...
- Standards of Waste water control issued by STEA
 - Building, Hotels, Dormitories, Hospitals, Restaurants, Commercial Center...BOD, SS, TDS, COD...

Relevant Organizations for monitoring



- Environment Quality Monitoring Center
- Department of Industry, Factories Environment Division
- Department of Hygiene and Sanitation
- Water Quality Research Center, Department of Irrigation
- Nam Papa Lao (State Enterprise of Water Supply)

Major issues for water quality



- Discharge of waste water from industrial factories and mining especially cyanide, lead and mercury and most of factories did not strictly operate their business accordingly to the approved EIA study.



Thank you for your kind
attention

