

## **Performance Audit of Citarum Watershed Pollution Control and Management**

### **Audit Objective:**

To assess the Government effort in controlling the pollution of Citarum watershed from waste and sedimentation

### **Audit Scope:**

Activities related to management of Citarum watershed, forest and land rehabilitation of upstream area, and pollution control (industrial wastewater, domestic wastewater, municipal solid waste, livestock waste, and fishery waste) from 2016 to 2018.

### **Audit Criteria:**

The criteria are derived from Integrated Water Resources Management as well as relevant regulation and best practices related to forest and land rehabilitation and the management of industrial wastewater, domestic wastewater, municipal solid waste, livestock waste, and fishery waste.

### **Significant Findings:**

1. The database for the industry is not reliable and has not been established properly, which complicate the licensing and monitoring processes.
2. Insufficient supervision and licensing system for livestock, fishery, and industrial waste. The total maximum daily load has also not been established based on accurate data and assumptions.
3. Inadequate waste treatment facilities and infrastructure for domestic, industrial, and livestock waste.
4. Inadequate planning process and coordination of stakeholders for forest and land rehabilitation in upstream area.

### **Audit Recommendations:**

1. To set up the up-to-date and reliable industrial database for accurate licensing and monitoring processes.
2. To enhance licensing and effluent quality standards based on the total maximum daily load and to encourage industries to become more efficient in the production activities as well as to recycle the wastewater.
3. To optimize the supervision by involving law enforcer, community group, and industries.
4. To develop waste treatment facilities for industry, domestic, and solid waste.
5. To improve socialization and facilitation of domestic waste management.
6. To integrate the planning process and improve coordination between relevant stakeholders in rehabilitating the upstream area.

**Management Response:**

The management accepted the recommendations and will follow up accordingly.