

(Garuda Emblem)

Notification of Ministry of Industry

**Re: Type of factory requiring installation of wastewater continuous monitoring equipment
and type of equipment to be installed
B.E. 2547 (2004)**

By the virtue of clause 15 di and clause 15 di (1) paragraph two of the Ministerial Regulation No. 2 (B.E. 2535 (1992)) issued pursuant to the Factory Act B.E. 2535(1992), amended by the Ministerial Regulation No. 11 (B.E. 2539 (1996)) issued pursuant to the Factory Act B.E. 2535(1992), which contains some provisions concerning the limitation of the people rights and liberties that is permissible by the provisions of section 29 together with section 35, section 48 and section 50 of the Constitution of the Kingdom of Thailand, the Minister of Industry hereby issues the Ministerial Notification as follows:

Article 1 For factories of the attached list annexed to the Ministerial Regulation (B.E.2535 (1992)) issued pursuant to the Factory Act B.E. 2535(1992), that has effluent discharge as follows:

1.1 A factory with effluent discharge exceeding 10,000 cubic meters per day.

1.2 A factory with effluent discharge of 3,000 – 10,000 cubic meters per day, or with influent BOD load of at least 4,000 kilograms per day.

A factory is required to install continuous monitoring equipment to report its effluent discharge online with computer network system of Department of Industrial Works. A factory with no effluent discharge and a factory sending off its wastewater to central waste treatment plant are not required to install such equipment.

Article 2 Factories under Article 1 shall install the following equipment.

2.1 Installation of flow meter for discharging effluent and electricity consumption meter for wastewater treatment system that can be continuously transmitted data to computerized system of Department of Industrial Works for continuous data recording.

2.2 Installation of monitoring equipment for Biochemical Oxygen Demand and/or Chemical Oxygen Demand determination, by drawing out sample of effluent for continuous analysis. The method of analysis shall be in accordance with Manual for Water and Wastewater Analysis by the Environmental Engineering Association of Thailand or Standard Methods for the Examination of Water and Wastewater by American Public Health Association, American Water Work Association, and Water Environment Federation.

Installation of monitoring equipment either for Biochemical Oxygen Demand or Chemical Oxygen Demand determination, or both, shall be approved by Department of Industrial Works.

Article 3 Factories shall install equipment that can transmit data continuously or intermittently from flow meter for discharging effluent and electricity consumption meter for wastewater treatment system, including analytical data in 2.2 into signal of other telecommunication system such as telephone, radio or satellite to Department of Industrial Works or other location as prescribed by Department of Industrial Works. The equipment shall have following property.

3.1 Have warning system when determined BOD or COD values exceed standard limit prescribed in the Ministerial Notification issued pursuant to the Factory Act B.E. 2535(1992) regarding industrial effluent standard.

3.2 Can transmit signal to external receiving station for data recording system or control system prepared by Department of Industrial Works.

3.3 Can link with computerized network system of Department of Industrial Works.

3.4 Can be controlled by remote control system.

This shall, thus, enter into force after the expiration of 6 months from the date of its publication in the Government Gazette for factories under 1.1 and after the expiration of 1 year from the date of its publication in the Government Gazette for factories under 1.2.

Announced on the 2nd day of July B.E. 2547 (2004)

(signed) _____
(Mr.Pini Jarusombat)
Minister of Industry