

Ministerial Regulation No. 25, B.E.2517 (1974)

Issued in Accordance with the Minerals Act, B.E.2510

Translation

By virtue of the Section 17 of the Minerals Act, B.E. 2510 amended by the Minerals Act, (No. 2) B.E. 2516, the Minister of Industry has issued the Ministerial Regulation as follows:

CHAPTER 1**Rules and Methods for Mineral Processing**

1. For mineral processing, a single or several methods from the following shall be employed:
 - (1) Crushing, grinding or classifying of the ore, including washing by water.
 - (2) Hand sorting.
 - (3) Separation by applying different specific gravity, for example, the methods using a lanchute, jig, shaking table, Humphrey's spiral or cyclone.
 - (4) Magnetic separation.
 - (5) Electrostatic or high tension separation.
 - (6) Flotation.
 - (7) Chemical method.
 - (8) Other methods approved by the Director-General.
2. Flowsheet and method for mineral processing shall provide the followings:
 - (1) The types of ore to be processed.
 - (2) The processing method and the flowsheet to illustrate the mineral processing.
 - (3) The list of machinery and equipment for mineral processing, including their sizes and horsepower used.
 - (4) The location of machinery and equipment to be used for mineral processing.
 - (5) The methods for storing tailing waste, slime water, dust protection and suppression, and disposal of toxic matters. If there is none of the aforesaid, notify that there is no toxic substance to be discharged out of the mineral processing area.
 - (6) The method for dewatering from mineral processing area.
 - (7) The map with appropriate scale showing location of mineral processing plant and mineral processing areas, roads and distance from the main roads, location of an office, a mineral storage area, a water storage area being used for mineral processing, and a storage area for tailing waste and slime.

Each field of professional engineers must sign in concerned documents, together with ranking class, branch of engineering and license number,
3. The holder of a Mineral Processing License shall operate according to the approved flowsheet and method. Additionally the engineers, who certify the concerned documents, shall supervise and be responsible for each engineering work according to the laws regarding engineering profession. If the replacement of the supervised engineer is desired, the Local Mineral Industry Official shall be given a notification of the replacement together with a written consent from the substitute. The

ranking class of the engineer, engineering branch and license number must be specified together with the consent letter.

In case the holder of a Mineral Processing License would like to make a change or modify any item outside mineral processing line, a written notification shall be given to the Local Mineral Industry Official. However, if the change or modification relating to the mineral processing or tailings pond or wastewater pond, the holder shall submit the new mineral processing method with a flowsheet for approval before action can be taken.

4. The holder of a Mineral Processing License shall fill in the printed form, as designated by the Department of Primary Industries and Mines, specifying the actual account of workers, the amount of received ores and processed ores. These documents shall be kept in the mineral processing area so that the competent officials may examine them at all times.
5. The holder of a Mineral Processing License shall submit a monthly report, using the printed form provided by the Department of Primary Industries and Mines, on actual mineral processing to the Local Mineral Industry Official no later than the fifth day of the following month.

CHAPTER 2

Rules and Metallurgical Processing Methods

6. For metallurgical work, any single or several of the following methods shall be utilized:
 - (1) Pyrometallurgical process.
 - (2) Chemical solution process with metallurgical separation or precipitation (Hydrometallurgical process).
 - (3) Other processes as approved by the Director-General.
7. The flowsheet and the metallurgical processing methods shall indicate the following items:
 - (1) The types of ore, fuel and other raw materials to be used in metallurgical processing.
 - (2) The metallurgical processing methods and the illustrated flowsheet to be used.
 - (3) The list of smelting furnaces, blast furnaces, machinery and equipment for metallurgical processing, including their sizes and horsepower used.
 - (4) The locations of smelting furnaces, blast furnaces, machinery and equipment to be used in metallurgical processing.
 - (5) The methods in details for prevention or suppression of the dust as well as the hazardous matters resulted from metallurgical processing.
 - (6) The discharge of water, gas, fumes, or waste from metallurgical processes out of the metallurgy area.
 - (7) The map with attached scale to illustrate the location of a metallurgical processing plant, metallurgy area, main road, the distance to the main road adjacent to the metallurgy area including storage area for crudeore feed, after-smelting metal products, slag, dust, and the dewatering route out of the metallurgy area.
 - (8) Production capacity per day.

Each field of professional engineers must sign in concerned documents, together with ranking class, branch of engineering and license number,

8. The holder of a Metallurgical Processing License shall operate according to the approved flowsheet and metallurgical processing methods. Additionally the engineers, who certify the documents, shall supervise and be responsible for each engineering work according to the laws regarding engineering profession. If the replacement of the supervised engineer is desired, the Local Mineral Industry Official shall be given a notification of the replacement together with a written consent from the substitute. The ranking class of the engineer, engineering branch and license number must be specified together with the consent letter.

In case the holder of a Metallurgical Processing License would like to make a change or modify any item outside metallurgical processing line, a written notification shall be given to the Director-General. However, if the change or modification relating to the metallurgical processing method, the holder shall submit the new flowsheet and the new metallurgical processing method for approval before any action can be taken.

9. The holder of the Metallurgical Processing License shall fill in the printed form, as designated by the Department of Primary Industries and Mines, specifying the actual records of the workers, the amount of received ores and metallurgical-processed ores, and the sale amount of ore. These documents shall be kept in the metallurgy area in order for the competent officials to be able to examine at all times.
10. The holder of a Metallurgical Processing License shall submit a monthly report, using the printed form provided by the Department of Primary Industries and Mines, on the actual metallurgical processing to the Local Mineral Industry Official no later than the fifth day of the following month.

Given on the 9th day of January B.E. 2517

Signed by Osoth Kosin

Ministry of Industry

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