#### FY2013 Metal Production Plans

FY2013 Metal Production Plans

	Unit	1H	2Н	Total
Electrolytic copper	t	204,000	219,000	423,000
Electrolytic nickel	t	22,400	30,800	53,200
Ferronickel	t	10,000	12,400	22,400
Zinc	t	25,600	24,400	50,000
Gold	kg	11,100	11,800	22,900
Silver	kg	91,000	97,000	188,000

### 1. Influencing Factors

- 1) Regular maintenance and repair work
  - Toyo Smelter & Refinery (electrolytic copper)
    Regular maintenance scheduled for 20 days between October and November.
  - Hyuga Smelting Co., Ltd. (ferronickel)

Of the two kiln lines on the premises, maintenance work on one line will be carried out for 35 days between May and June, and work on the other line is scheduled to take place for 22 days in September.

### 2) Production Overview

• Electrolytic copper

Due to the scheduled implementation of mandatory maintenance work in FY2013, the planned production volume is set at 423,000t, which represents a 13,000t decrease compared to FY2012.

· Electrolytic nickel

Although investment in increased production of 65,000t of electrolytic nickel will be complete in FY2013, the planned production volume will be 53,000t due to shipment of intermediates from the Taganito Project commencing in the second half of the year.

Ferronickel

Planned production volume for FY2013 is unchanged from FY2012.

· Zinc

Planned production volume for FY2013 is unchanged from FY2012.

# 2. Reference

# FY2012 Metal Production Plans

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	Unit	1H	2Н	Total		
Electrolytic copper	t	218,000	218,000	436,000		
Electrolytic nickel	t	20,500	20,500	41,000		
Ferronickel	t	11,000	11,200	22,200		
Zinc	t	21,000	24,000	45,000		
Gold	kg	14,000	13,300	27,300		
Silver	kg	114,000	100,000	214,000		