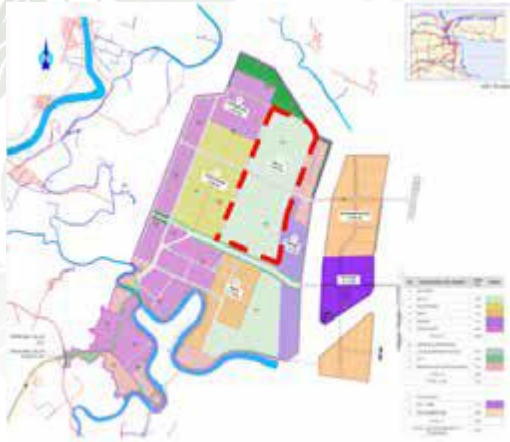


1. Copper Metal Processing Industry (1 of 2)



Project Description

Govt. Regulation No. 14 of 2015 concerning the 2015-2035 National Industrial Development Master Plan has mandated that the downstream industry of copper metal is included in the priority industries that must be developed to increase added value. In Indonesia, the copper processing industry only consists of 2 factories producing copper cathodes, 11 copper rods industry, and 45 copper cables and conductor industry. Indonesia does not yet have the copper pipes industry. This copper metal downstream industry will later be directed to produce 3 final products with the main raw material in the form of copper cathodes of 400.000 tons/year. The KBLI used are 24203 (Non-ferrous Metal Milling Industry) and 46620 (Whole Metal and Metal Ore Trading).

The average value of Indonesian copper tube imports in 2015-2021 reached 10,564 tons/year, all of which were used to meet the needs of the household electronics industry. For the copper rod type the average value reaches 9,280 tons/year, where in the last 3 years the value of imports has exceeded exports. Globally, the CAGR of copper wire in 2023-2030, the increase from 2020 in precision reaches 5.76% while that of copper pipes & tubes reaches 3.3%. Labor during the operational period of 200 people. The 2022 minimum wage is IDR 4.372.030

Key Investment Highlight

Location	Gresik SEZ - JIPE, Manyar District, Gresik Regency, East Java Province
Est Investment Value	USD 1.1 B / IDR 17.19 T
Total Area/Land Status	20 Ha (8 Ha Copper Rod & Wire, 8 Ha Copper Tube, 4 Ha Open Area), building rights certificate (SHGB)
Business Scheme	Private Investment
Project Owner	Ministry of Investment/ Indonesian Investment Coordinating Board
Financial Feasibility	WACC : 9.94 %; IRR : 15.99%; NPV: USD 454,691,002 / IDR 7.1 T; PP : 11 years 4 months

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1. Copper Metal Processing Industry (2 of 2)

MARKET ANALYSIS

- From 2015-2021, the average value of Indonesian copper tube imports reached 10,564 tons/year, all of which were used to meet the needs of the household electronics industry.
- For the copper rod type, the average value reaches 9,280 tons/year, where in the last 3 years the value of imports has exceeded exports.
- Globally, the CAGR of copper wire in 2023-2030 is predicted to increase to 5.76%, while that of copper pipes & tubes will reach 3.3%.

PRODUCTION TARGET



- Raw Material : Copper Cathode – 400000 ton/year
- 1st Product : Copper Rod & Wire – 300000 ton/year
- 2nd Product: Copper Tube – 100000 tons/year

TECHNICAL ANALYSIS

The production of copper tube and copper rod & wire has similarities, namely similarities in raw materials, smelting processes, and also casting. However, the difference is that in the **tube extrusion process** there is a solid ram to produce a product in the form of a pipe. The price for the raw material for the copper cathode obtained is USD 8000/ton Cu with product selling prices, namely:

- Copper Tube : USD 12500/ton Cu
- Copper Rod/wire : USD 9400/Ton Cu

Process Production Flowchart

