

Indonesia Copper Smelter and Refinery Project Team

[Chiyoda Corporation, PT Chiyoda International Indonesia]

Representative : Shin Tsuchida (General Manager, Metals & Mining Business Department, and Project Manager, Manyar Smelter Project)

Members : 88 persons (Chiyoda Corporation 81 persons, PT Chiyoda International Indonesia 7 persons)

The Manyar Smelter Project (MSP), an Indonesian National Strategic Project, is one of the largest single line smelting trains in the world, with an annual copper concentrate processing capacity of 1.7 million tons and a plant area of 1 square km. Chiyoda commenced initial studies for PT Freeport Indonesia (PTFI) in 2015 and, after implementing numerous changes to the smelting process, processing capacity and location, were awarded the Engineering, Procurement and Construction (EPC) contract in 2021.

As the sole EPC contractor, Chiyoda overcame the tight schedule stipulated by PTFI, our first major copper client overseas, and conquered other challenges to achieve Mechanical Completion in November 2024, including the adverse impacts of COVID-19 and worldwide geopolitical risk. Chiyoda executed the detailed engineering from a Front End Engineering Design (FEED) for the core process units completed by Outotec (now Metso) as a smelting licensor and managed unique equipment supplied by them as the major equipment supplier. Chiyoda successfully executed engineering and procurement from multiple centers across the globe and implemented a multi-subcontracting strategy to complete the massive construction of MSP.

Chiyoda applied its Behavior Based Safety (BBS) program 'C-Safe' on site and implemented an 'open communication' strategy with approximately the forty (40) construction subcontractors (with a peak workforce of over 22,000), safely completing the construction with unprecedented productivity and progress while achieving over 60 million manhours without a Lost-time Incident (LTI) and a Total Recordable Incident Rate (TRIR) of 0.127.

Chiyoda also applied its 'One-Team' project execution philosophy throughout EPC, secured additional contracts for commissioning support and maintenance inspection services, and providing PTFI with our employees and subcontractors as per their requests, resulting in customer satisfaction.

This project deserves particular recognition for its international contribution given its outstanding achievements as outlined above and its influence towards securing future developments.



Courtesy of PT Freeport Indonesia

Plant Overview