

**Location:**

Pangkalan Brandan, North Sumatra, Indonesia

Value:

US\$36,5 Million

Client:

PT Moeladi (for Pertamina)

Contract Type:

Lump Sum, EPC

Duration:

May 1993 to February 1995

Description of Works:

In May 1993, PT. Thiess Contractors Indonesia, in conjunction with Linde (Australia) Pty Limited, commenced the design and construction of an LPG Plant located within the confines of an existing refinery and oil storage facility at Pangkalan Brandan, approximately 100km north-west of Medan in North Sumatra.

The new plant features a 60MMSCRD natural gas reconditioning facility, and LPG recovery and storage facilities, and was developed to recondition natural gas from several gas streams for conversion to lean town gas. As a by-product, 280 tonnes per day of LPG is recovered and stored within the plant for export sales.

Principle items of equipment on the project include:

- two 800m³ condensate tanks
- two 450m³ LPG buffer storage tanks
- one fire water tank (1500m³)
- two 3000m³ LPG loading/storage tanks
- power station (solar turbines)
- solar turbo compressor and gas turbine
- expander/booster unit

Throughout the project, PT. Thiess was responsible for the construction of the plant and Linde (Australia) undertook the process design, detailed engineering and procurement of major items for the project.

The design criteria for the plant included maximisation of LPG recovery rates and natural gas production to meet the requirements of the State Electricity Commission (PLN) while optimising the capital and on going operating and maintenance costs. The scope also included the design, procurement, fabrication and installation of all pipework (12mm to 750mm), mechanical systems, electrical and instrumentation as well as civil and structural facilities.

The project was undertaken over a 21 month period, and was successfully completed ahead of schedule in February 1995, meeting all time, cost, safety and quality requirements.