

Manjung 5, Malaysia



Key facts about the plant

- 1x1000 MW ultra-supercritical coal fired power plant
- Owner: TNB Bhd
- Contractor: Daelim Industrial Co. Ltd.



Key facts about the silo

- Completed in 2016
- Concrete silo
- Fly ash
- H 38m
- Outer $\varnothing = 17\text{m}$
- Capacity $3,920\text{m}^3$

Located in Manjung, Perak State, approximately 207km Northeast of Kuala Lumpur, this power plant (1x1000MW) is one of three ultra-supercritical coal fired power plant in South-East Asia. It is the extension of the previous Manjung coal power plant (3x700MW) which went to operation in 2004.

The plant is owned by TNB Janamanjung Sdn Bhd, a subsidiary of Malaysia's state-controlled power generation, transmission, and distribution company Tenaga Nasional Bhd (TNB).

In this power plant, FERBECK has been awarded an EPC contract of a 38 meter-high-concrete silo and a 200-meter-high-concrete chimney by Daelim Industrial Co. Ltd.

FERBECK had previously accomplished Manjung 4 concrete chimney and concrete silos*.



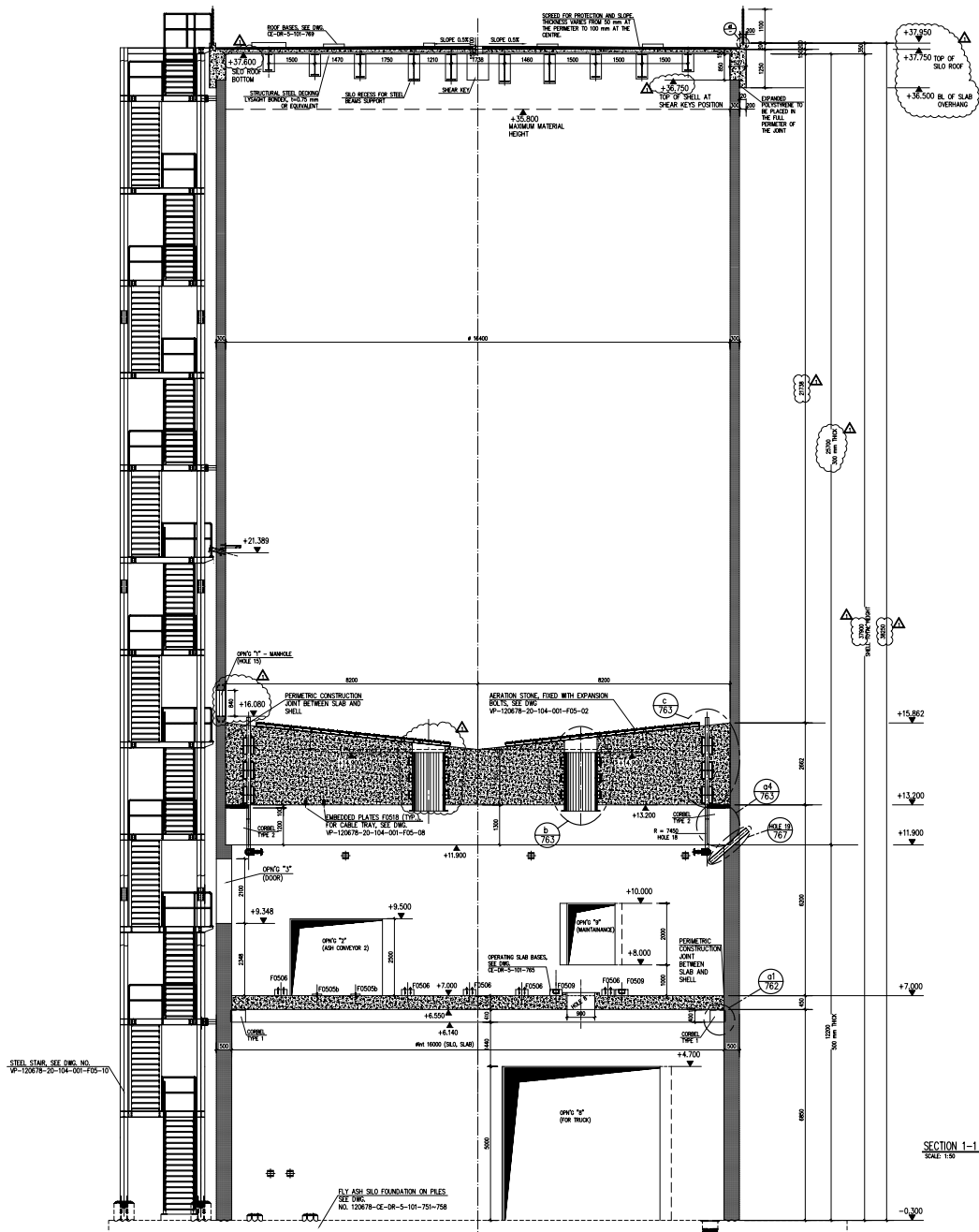
* see Manjung 4 concrete chimney and concrete silos project reports



Concrete silo

FERBECK's scope of work includes:

- foundation
- concrete shell
- slabs and roof





Concrete shell

The outer concrete shell is made of total 790m³ of concrete with the following size:

- 17m of external diameter
- h 38m

The casting is performed with a slipform operating 24/7.

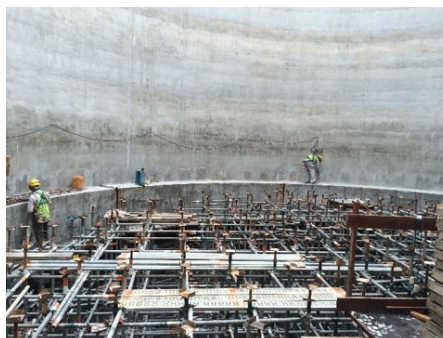


Slabs and roof



3 slabs are installed inside the structure:

- roof slab at EL.+38.0m
- silo floor slab at EL.+14.9m
- operating slab at EL.+7.0m





Overview of the plant

