Project Participants

Owner

Petron Bataan Refinery

Client

Formosa Heavy Industries Corporation

BEC Group of Companies

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BEC Holdings Ltd

Lining System









Chimney EPC Contractor

SCR-Ten 2













CHIMNEY DESIGN AND BUILD



Petron Bataan Refinery was constructing 2 x 200 CFB boilers at Petron Refinery, Bataan, Philippines. Formosa Heavy Industries Corp. was the main EPC Contractor.

Petron Steel Frame Chimney

BECs project was for the construction of the twin flue steel framed chimney as part of the Petron Bataan refinery expansion programme that includes the construction of a 2 x 200T/H x 35MW power station. BEC was contracted to undertake the turnkey construction of the chimney by the main contractor for the power station, Formosa Heavy Industries. The whole of the structure was designed and fabricated in-house by BEC in Singapore and shipped to site.

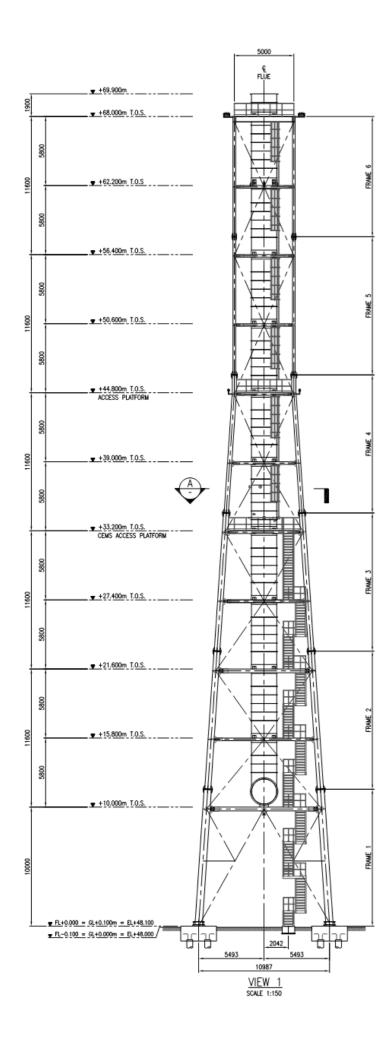
Detail of work by BEC

BEC was involved in the Design & Construction of the steel frame chimney, including supply and fabrication of steelwork frame and flues, erection of the steel frame and platforms, heavy lifting of flues, installation of AWLs, lighting, lightning conductor and earthing works. The project was completed and handed over on schedule.

Challenges

• During the tower erection and liner installation, we were subjected to two (2) typhoons (Nesat and Nalgae) and unusually high rainfall from July to September





Petron Steel Frame Chimney details

Chimney data:	
Height	70m
No. of steel flues	2
No. of platforms	3
Diameter of internal flues	2.1m
Base footprint	14.0m – 11.0m
Piles	16 Nos. x 500 x
	25m long each
Pile cap	4 Nos x 3m x 3m x
	1.25m deep









