

CRANE DEMOBILIZATION



Location

Sattahip, Thailand

Duration

1 day

Crane Specifications Base Unit

Length 8.36m

Width 6.7m

Height 3.82m

Weight incl. base boom 41t

Weight excl. base boom 38t

Boom & Boom Top

Length 44m

Width 2m

Height 2.1m

Weight 7.92t

Equipment/Services Used

220 Ton mobile crane

4 Flat bed trailers

2 Low loader trailers

Lifting slings

Shackles

Police escort

SCOPE

To provide demobilization of a KOBELCO CKE1800 Crawler crane from an operations barge at Sattahip Port, Thailand. CEA also provided transportation to their facility in Laem Chabang and consolidation of the cargo until ready for shipping to Singapore.

PROCEDURE

A CEA 220 Ton crane moved into position alongside the barge. Counterweights for the crane were installed. Operatives removed the hook block and unfastened the bridle section from the main boom. The crawler cranes 10 counter weights were lifted and removed one at a time and placed on three CEA flatbed trailers. The next crane section removed was the counter weight holder this was loaded on to a CEA low loader.

The CEA crane was moved further along the barge to lift the main boom. The main boom comprised of five sections, four insert booms and one boom top. Lifting slings were secured in four key lift points to compensate for the heavy boom top section. The crane lifted the complete boom and lowered it on to the port.

CEA operatives removed the boom pins and dismantled the boom into five sections. The boom top was secured in place on a low loader trailer, each of the four insert booms were placed and secured on separate flatbed trailers.

The crane was once again moved to facilitate the demobilization, both tracks on the crawler section were unpinned and lifted on to a low loader trailer and secured. Walkway steps attached to the crawler section were removed and secured on a flatbed truck.



CRANE BASE WITH BOOM BASE ATTACHED AND BRIDLE RETRACTED

The only section remaining on the barge was the crane base with boom base attached. Operatives retracted and lowered the main bridle section and slings were attached to the lift points. The CEA crane lifted the base & boom on to the port floor below. The cranes operative then retracted all supports and lowered the boom base ready for transportation. The crane base section was lifted on to a low loader trailer and secured in place. The trailer with police escort made the journey to CEA's Cargo Consolidation Facility in Laem Chabang to await shipping to Singapore.



BRIDLE UNFASTENED FROM MAIN BOOM



COMPLETE BOOM LIFTED ON TO PORT



CEA TEAM DISMANTLE THE BOOM SECTIONS



CRANE BASE WITH BOOM LOWERED SECURED AND READY FOR TRANSPORTATION



TRACKS FROM THE CRAWLER SECTION

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CASE STUDY
 Crane Demobilization

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