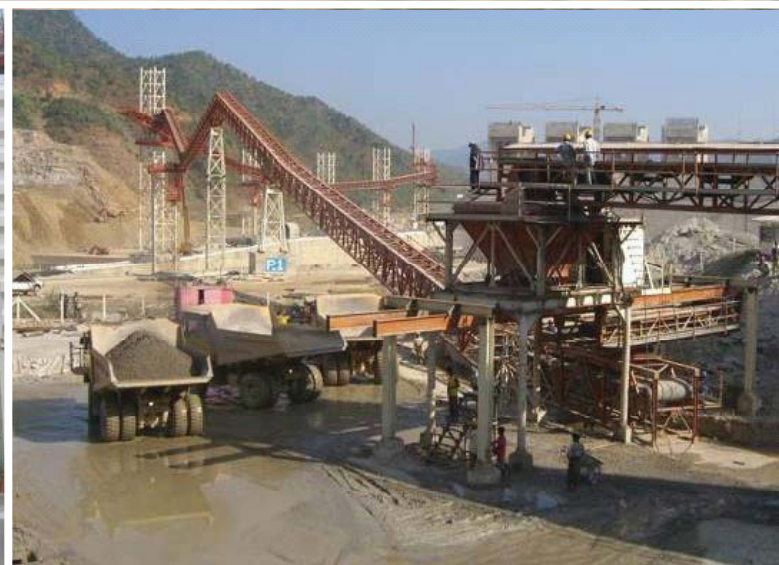


# Job Report

## RCC Batch Plant for Yeywa Hydropower Project, Myanmar.



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## Situation

The largest hydro-electric power project (HPP) in Myanmar to date is the Yewya Hydropower Project. The main features of this Project are the construction of a 440 ft high roller compacted concrete (RCC) dam and a 790 MW hydro scheme. Total concrete volume is near to 4 million cyd. The RCC dam alone takes 3.4 million cyd of RCC, making it the third largest in the world.

## ? Task

Concrete production started in February 2006 and reached a peak production of about 13,000 cyd/day. The RCC dam was finished end of 2007 well ahead of schedule. The concrete mix at Yey-wa HPP specified a high-paste RCC mix concept with a high proportion of natural pozzolan. With just 125 lbs/cyd this is the lowest cement content ever used in a high-paste RCC dam.

Another challenge was to supply concrete with a temperature of 65°F (ambient temperature of up to 115°F), which required pre-cooling of aggregates and addition of large quantities of flake ice into the mixer.

## ! Solution

In order to master this difficult task a special Liebherr RCC plant was installed with an inline arrangement of 4 x 4yd<sup>3</sup> Liebherr twin-shaft mixers. The combined output of the twin-shaft mixers was confirmed at 650 cyd/h during the final capacity and uniformity tests. Only twin-shaft mixers can produce such an extraordinary economical mix within a mixing time of 45 sec. and meeting the high quality standard essential for such a project.

Cooling plant for RCC production



Inline arrangement of Twin Shaft Mixers



## Technical Data

<b>RCC Plant:</b>	4 x Betomix 3.0A-R/DW
<b>Output:</b>	500 m <sup>3</sup> /h or 650 cyd/h
<b>Mixer:</b>	4 x DW3.0
<b>Batch Size:</b>	3 m <sup>3</sup> or 4 cyd
<b>Mixer Motor:</b>	75kW / 100 HP
<b>Aggregates:</b>	max: 40 mm or 1½ inch
<b>Temperature:</b>	18°C or 65°F at dam site 38°C or 100°F ambient

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